

Welcome to the 2012-2013 Graduate Bulletin



The Graduate Studies Bulletin contains information about all programs of graduate study offered at the University of Nebraska–Lincoln. The dynamic bulletin found here will be changing periodically throughout the year as needed for updating policies, faculty and curriculum.

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Policies

1. The Graduate College (UNL Graduate Studies) is open to graduates of all colleges of this University and to graduates of other universities and colleges of recognized standing whose requirements for graduation are substantially the same as those in the corresponding colleges of this University. The University of Nebraska is a public university committed to providing a quality education to a diverse student body. Students are selected on the basis of academic preparation, ability, and the availability of space in the desired academic program.

It is the policy of the University of Nebraska–Lincoln not to discriminate based on gender, age, disability, race, color, religion, marital status, veteran's status, national or ethnic origin, or sexual orientation.

This policy is applicable to all University administered programs including educational programs, financial aid, admission policies and employment policies.

2. All materials submitted become the permanent property of the Office of Graduate Studies and will not be photocopied for individual use, returned, or forwarded to other agencies.

3. Information given falsely or withheld will affect the decision on an application and may make the applicant ineligible for admission and/or enrollment.

4. Persons who have been dismissed from another institution for academic dishonesty or violations of student codes of conduct are not eligible for admission to UNL Graduate Studies.

5. Applicants must have earned a bachelor's degree or higher from an institution that is regionally accredited, an institution that is accredited by an organization recognized by the Council on Higher Education Accreditation (CHEA), or from an accredited foreign institution that is recognized by Graduate Studies.

6. Acceptance for admission to a program leading to a masters degree, a doctoral degree, an educational specialist degree or a certificate is determined by the Graduate Committee within the academic unit and the Dean of Graduate Studies. This decision is based upon the applicant's record, experience, personal qualifications, and proposed area of study. Departmental or area Graduate Committees make recommendations on all degree applications, but the final admission decision is the responsibility of the Dean of Graduate Studies.

7. Notification of acceptance by a department Graduate Committee or faculty member is advisory only. Admission is granted solely by the Office of Graduate Studies and is confirmed by the issuance of a Certificate of Admission. Academic departments will notify applicants concerning awards of financial assistance.

8. Negative admission decisions are not appealable.

9. Most applicants will apply formally and be admitted to only one graduate degree program at a time. It is possible, however, to apply to two degrees simultaneously. In order to do so, one must treat each application as a completely separate entity, supplying for each one an application, an application fee, a set of transcripts, and any departmental materials. If accepted by both programs, the applicant must select only one program to enter since admission is limited to one program at a time (unless admission is to a dual-degree program).

There are dual degree programs available in cooperation with the College of Law and certain participating programs in UNL Graduate Studies.

If an enrolled student plans to move on to a new degree program upon completion of another, it is advisable to apply for admission to the new program early in the semester in which one plans to graduate.

10. Entry into UNL Graduate Studies is valid for the specific semester indicated on the Certificate of Admission. However, a student may defer enrollment by one or two terms if he or she meets certain Graduate College requirements and if the department in which graduate study would be pursued consents to the delay. (There is no guarantee of an offer of an assistantship if there is a request for postponement of enrollment.)

The Office of Graduate Studies retains the right to revoke the earlier admission on the basis of new information or limited resources. International students may be required to provide current financial information in order to receive a valid I-20 or DS-2019 immigration form if they wish to delay their initial enrollment. Students who are admitted but who neither defer nor subsequently enroll must reapply.

11. A graduate student, formerly or currently enrolled, who wishes to pursue a degree objective other than the one originally sought, must initiate a formal application for the new program by filing a new graduate application form, supplementing existing records, and fulfilling any departmental requirements prior to review by the departmental Graduate Committee and the College.

Current admission information and access to UNL's online graduate application is available at: (<http://www.unl.edu/gradstudies>) (<http://www.unl.edu/gradstudies>).

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Admission of International Students

The University of Nebraska–Lincoln welcomes students from all countries as part of the student body and the Office of Graduate Studies encourages applications from qualified students throughout the world. It is recognized that educational systems in other countries differ from that of the United States. Comparability of international course work and degrees will be determined by departmental Graduate Committees and by the Office of Graduate Studies. Generally, a four-year first university degree from an academic institution outside the U.S. will be accepted as comparable to the U.S. bachelors degree if the degree grants eligibility for graduate study at institutions within the same country.

Application materials from international students must include uploaded copies of all college- or university-level transcripts or mark sheets (records of courses and marks earned), with certificates, diplomas, and degrees plus certified English translations. These unofficial documents will be used for application review. Official documents are required from all students who are admitted and enroll. Photocopies of certified records cannot be used. Students enrolled in other U.S. institutions may have certified copies of all foreign records sent directly to the Office of Graduate Studies.

It is recommended that applicants outside the U.S. begin applying approximately one year in advance of the desired first enrollment. The following dates are suggested to have all materials on file: March 1 for first semester (beginning in August); September 1 for second semester (beginning in January); and February 1 for summer (beginning in June).

All international applicants seeking F-1 student visas must apply for degree programs rather than non-degree, post-baccalaureate status.

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Funding Requirements

Evidence of adequate financial resources for tuition and living expenses is required of all international students seeking F-1 or J-1 visas, including those who received their baccalaureate degrees at UNL. Students should not assume funds or work opportunities will be available at a later date, and should be prepared to have their living and educational expenses increase annually. University-wide fellowships may be sought after one year of graduate study in the U.S. More

information is available to eligible candidates from the Office of Graduate Studies.



English Proficiency Requirement

Applicants to the Graduate College whose native language is not English are required to submit a Test of English as a Foreign Language (TOEFL) score of at least 550 on the paper-based TOEFL; 79 on the Internet-based TOEFL or an International English Language Testing System (IELTS) score of at least 6. **Some departments require higher scores for admission.**

English Placement Exam (EPE)

As a new international student, you may be required to take the English Placement Exam upon your arrival in Lincoln. Please check your Certificate of Admission from the Office of Graduate Studies to confirm whether you are required to sit for this exam.

Exemptions to EPE Requirement

Exemptions from the EPE requirement may be granted for non-native speakers who have received a bachelor's or more advanced degree from a U.S. university or a university outside the U.S. at which English is the official language of instruction. Also, if a student has an IBT score of 100 or higher with a Writing score of 25 or higher, no further English tests are required.

For new students with TOEFL scores of at least 100 on the IBT but with a Writing score less than 25, or with a score of at least 600 on the PBT, only the timed writing section of the EPE is required. The timed writing section can be completed in one hour.

All other newly admitted non-native speakers of English must sit for the full English Placement Exam.



International Teaching Assistant Institute

New holders of teaching assistantships who are non-native speakers of English must attend the International Teaching Assistant Institute. The summer Institute, a concentrated 90 hour program, is held the last week of July and the first week of August. For more information about the availability of assistantships and the Institute, contact your program's Graduate Committee chair.



Intensive English Program

UNL's Intensive English Program (IEP) welcomes graduate students who wish to study English intensively prior to enrolling in a graduate program.

For information and applications, contact:

Dr. Mike Harpending
Program in English as a Second Language
Department of English
University of Nebraska-Lincoln
513 East Nebraska Hall
901 N 17th Street
PO Box 880507
Lincoln, NE 68588-0507
(402) 472-1884
(402) 472-4636 Fax
esl2@unl.edu



Admission Categories

Graduate students may be admitted into one of the following categories:



Degree Objective

Admission to the Graduate College as a degree-seeking student requires application to both Graduate Studies and the Graduate Committee within an academic unit. Applicants to a degree program must send an application and application fee, and must upload complete transcripts from all post-secondary schools attended. Official transcripts are required of all admitted and enrolled students. Applicants must also fulfill any additional requirements the department specifies, such as statement of goals, test scores, portfolios, etc. Specific requirements for each department may be found at:

<http://www.unl.edu/gradstudies/prospective/majors.shtml> <http://www.unl.edu/gradstudies/prospective/majors.shtml>



Non-Degree, Post-Baccalaureate

Non-degree, post-baccalaureate admission to the Graduate College is completed through the Graduate Studies office. Applicants are reviewed for minimum standards upon receipt of an application, application fee and one uploaded transcript showing conferral of a baccalaureate or higher degree. Enrolled students must also provide official transcripts.

Those seeking another undergraduate degree should contact Undergraduate Admissions at (402) 472-2023 for advising and assistance. Students seeking a non-degree admission for an initial teacher certification, renewal of a teacher certification, or additional teaching endorsements should contact the College of Education and Human Sciences Student Services Center at (402) 472-5333.

Limitations to a non-degree, post-baccalaureate admission: **1) It is not a guarantee of future admission to a degree program.** Students must apply formally through Graduate Studies for acceptance into a degree program; **2) Students will not qualify for assistantships or fellowships in this category.** Financial aid in the form of student loans is limited to those taking only undergraduate hours as prerequisites for admission to a specific graduate or professional program. The Office of Scholarships and Financial Aid can supply further information about the availability of these loans; **3) This admission is not available to international students on F-1 student visas.**



Express Non-degree Post-baccalaureate Admission

An Express Admission allows a student to register for classes without waiting for Graduate Studies to receive transcripts. The admission may be extended beyond one term only upon receipt of an official degree transcript. Applicants requesting an Express Admission must be eligible for non-degree post-baccalaureate admission and have earned a bachelors or higher degree with a cumulative GPA of at least 2.50 on a 4.00 scale.



Non-Degree, Visiting Graduate

Admission is available to applicants who are actively pursuing graduate studies at U.S. institutions other than the University of Nebraska campuses, and requires submission of an application, application fee, and letter of good standing from the home institution. Enrollment is limited to two consecutive terms (semesters and/or full summer enrollment).



Intercampus Admission/Intercampus Registration

UNO, UNMC and UNK graduate students will use an online application for intercampus registration to register for courses at UNL and will retain their admission at their degree-objective campus. To apply for this admission category, contact the Office of Research and Graduate Studies at your home campus or access this application online at: intercampus.nebraska.edu/pre_inter_campus.aspx.

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Changing from Non-degree to Degree Status

Any non-degree student who seeks admission to a degree program must apply to the Office of Graduate Studies and be recommended for admission by the departmental or area Graduate Committee. There is no guarantee of ultimate admission to a degree program from non-degree status, nor is there any guarantee that credits earned as a non-degree student will be applied toward a graduate degree. Admission to a degree program must be gained prior to the accumulation of half of the hours required under each of the degree options. Some graduate-level hours completed by non-degree post-baccalaureate students prior to degree program enrollment may be included in a program of studies at the discretion of the major and/or minor department and with the approval of the Dean of Graduate Studies. *It is imperative to check with your desired department to obtain information about the maximum number of hours that may be completed prior to admission to their program.*

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Admission of Faculty Members

A member of the faculty in an instructional department who holds the rank or equivalent rank of assistant professor or above, or who holds an appointment for a specific term, or a member of the administrative staff holding the rank of assistant professor or above, may pursue an advanced degree in the Graduate College only after receiving special permission from the cognizant academic dean or administrative supervisor and from the campus Graduate Council responsible for the program which the faculty member wishes to pursue. The advanced degree cannot be in the faculty member's own department or in a closely-related department or area. Whether a second department or area is too closely related to the person's own department shall be determined by the Dean of Graduate Studies of the campus involved in consultation with the Graduate Committees of the two departments or areas. Permission may be granted to pursue an advanced degree in the equivalent department on another campus of the University of Nebraska.

Persons who are Graduate Faculty will have their status suspended upon receiving permission to pursue an advanced degree in the Graduate College. However, such persons shall be eligible, with permission of the appropriate campus Dean of Graduate Studies and the appropriate Graduate Committee, to continue to teach graduate courses, supervise graduate students at a level commensurate with their former rank in the Graduate Faculty, and serve on graduate supervisory and examining committees. Upon completing or withdrawing from an advanced degree program, the original Graduate Faculty status shall be reinstated upon recommendation by at least two-thirds of the Graduate Faculty of the department or area if the person returns to the same department in which they held an appointment originally. A change of appointment to another department requires that the person follow the established procedure for obtaining Graduate Faculty status.

Members of the university community employed on a permanent full-time basis and holding the rank of Assistant Professor or above may be admitted on a non-degree basis to take courses for personal and professional growth by supplying an Application for Graduate Admission and the application fee. All other staff members are eligible for admission to all graduate admission categories and are subject to standard admission requirements.

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Admission of UNL Seniors

Refer to Academic Credit Policies.

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Admission to a Double Major

The professional/scholastic goals of some masters students may be enhanced substantially by acquiring more knowledge of a second field than is currently provided by the option of earning a minor, yet they may not need a dual degree (i.e., two masters degrees in separate majors, typically 60+ credit hours). The UNL Graduate Council has approved the concept of providing masters degree students with the option of attaining a double major within the same degree (e.g., master of arts in two different majors).

Applicants choosing the double major will submit one application and fee and clearly specify that they are seeking a double major. In addition, the applicant must specify which department/area is to consider the application first and whether or not they are applying for support from one or both departments. The graduate committee of the first department/area will pass the application to the second graduate committee with the results of its decisions (recommendation for acceptance with support, recommendation for acceptance without support, denial of admission). The prospective student should be aware that a decision to recommend admission by one of the graduate committees does not affect the decision of the other. The criteria for acceptance may differ between programs; admission to one or both of the department's programs does not guarantee acceptance for a double major masters degree. Final approval of all applications rests with the Dean of Graduate Studies.

If a student is already pursuing a major in a degree program, then decides he or she would like to obtain a second major, a new application is required. The new application must be approved by the original graduate committee prior to review by the second graduate committee. However, once the masters degree is conferred, a second major cannot be attained. Students then would be required to apply for admission to a second masters degree program, and upon acceptance, complete all requirements of a full independent program.

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Veterans

All men and women planning to attend the University affected by the educational assistance and vocational rehabilitation laws administered by the Veterans Administration should inquire at the Office of Registration and Records, 107 Canfield Administration Building, before they register to make sure that all necessary steps have been taken. [See Veteran Resources \(http://www.unl.edu/regrec/veterans/vet_main.shtml\)](http://www.unl.edu/regrec/veterans/vet_main.shtml)

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Funding

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Funding Information

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Fellowships

Fellowships are awarded on a competitive basis in recognition of a student's demonstrated scholarship, scholastic and creative promise, and/or financial need. There is no service or work requirement associated with fellowship awards. A student holding a fellowship or a traineeship must be a full-time student during the period of appointment.

Current information about UNL and externally-funded fellowships is available at: <http://www.unl.edu/gradstudies> (<http://www.unl.edu/gradstudies>)

To be eligible a student must be admitted to a department or area with a specific graduate degree objective and must be enrolled in graduate academic course work. *Students enrolled in certificate-only programs with no degree objective are ineligible for fellowships.* International students must have completed one year of study at a US institution of higher education to be eligible for any of the fellowships. Employees of the University of Nebraska, other than graduate assistants, are not eligible to receive a fellowship.

Fellowships are awarded in two categories: Tuition Fellowships and Fellowship Stipend Awards. Qualifying students may hold both types of fellowships simultaneously.

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Tuition Fellowships

These fellowships remit tuition for the full or partial cost of graduate courses according to the specific fellowship guidelines for the term of the award. Recipients of tuition fellowships are responsible for university program and facilities fees unless specifically included in the award announcement. Recipients must be admitted to a graduate program with a specific graduate degree objective.

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Full Support Fellowship Awards.

These fellowships provide stipend payments for recipients of these awards. Fellowship recipients are required to be full-time students (at least 9 credit hours or have an approved full-time graduate status form) during the period of appointment and may hold another major fellowship. They may not engage in remunerative employment, including a graduate assistantship or traineeship.

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Partial Support Fellowship Awards

Some fellowships provide partial support; students with these fellowships may hold other fellowships and assistantships.

The fellowship award should not in any way affect the amount of a graduate assistantship salary unless there is an accompanying real decrease in the teaching or research assignment and the corresponding FTE. Because of the potential appearance of a possible conflict of interest, employees of the University of Nebraska (other than graduate assistants) are ineligible for fellowship stipend awards.

Continuation of graduate fellowships may be denied to recipients under the following conditions: a) failure to satisfy Scholastic Grade Requirements as specified in the UNL Graduate Studies Bulletin; b) violations of the Code of Conduct as specified in the UNL Graduate Studies Bulletin; or c) failure in qualifying examinations, preliminary examinations, comprehensive examinations or failure to make satisfactory progress in a graduate program.

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Teaching and Research Assistantships

Approximately 1,900 teaching and research assistantships are available to qualified graduate students during the regular academic year in various departments within the university. The assistantships typically require 13 to 20 hours of service per week. During the fall and spring terms, graduate assistants may not work more than 20 hours per week, all jobs considered.

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Types of Graduate Assistantships

A teaching assistantship in an academic department provides a stipend to a student who is typically required to spend 13–20 hours per week (.33 to .49 FTE) during the academic year assisting in the teaching program of a department. The teaching assistant is expected to continue working towards the advanced degree while being a teaching assistant.

The Graduate Council recommends that all departments require graduate teaching assistants to participate in workshops for teaching assistants. Graduate assistants may be expected to provide their academic adviser with a written report of their academic progress at the conclusion of the period for which the teaching assistantship is awarded.

Because of the potential for the exploitation of graduate students, any assignment of responsibilities, such as teaching a course, must be associated with a fair and reasonable compensation. This principle precludes a graduate student from "volunteering" for any significant service to the department without an appropriate stipend.

A research assistantship in an academic department is provided to a student from an external grant or departmental or university funds to enable a student to work towards the advanced degree. Students receiving research assistantships may be expected to provide their academic adviser with a written report of their academic progress at the conclusion of the period for which the research assistantship is awarded. Work required by the graduate research assistantship that is not directly related to the student's own program shall not exceed 13–20 hours per week (.33 to .49 FTE).

Other graduate research assistantships provide a stipend to a student who is typically required to spend 13–20 hours per week (.33 to .49 FTE) assisting in either academic or nonacademic departmental activities. These graduate assistantships occur across campus and may involve diverse duties covering a wide variety of functions. Students receiving such assistantships in non-academic departments may be expected to provide their academic adviser with a written report of their academic progress at the conclusion of the period for which the graduate assistantship is awarded.

The responsibilities of the graduate assistant and the method by which the student will be evaluated should be provided in writing to the student by the immediate supervisor at the beginning of the assistantship.

Individual departments make assistantship appointments. Students interested in being considered for assistantships in their major should indicate that on the Application for Admission. Further inquiries should be directed to the graduate chair or the chair of the student's prospective department.

To hold a graduate assistantship a student must be admitted to a department or area with a specific graduate degree objective and must be enrolled for credit during the tenure of the assistantship.

All international graduate students who wish to be employed as teaching assistants at UNL must attend the International Teaching Assistant Institute after passing the SPEAK test. The Institute, a concentrated 90-hour program, is held the last week of July and the first two weeks of August. For more information on the availability of assistantships and the International Teaching Assistant Institute, contact the graduate committee of the appropriate department.

Tuition remission of up to 12 hours per semester is provided as a benefit of eligible assistantship employment with the presumption that the benefit will remit tuition on courses which will prepare the student for successful completion of the degree program. Upon review, use of the benefit for frivolous or ancillary courses which do not meet this guideline could result in loss of the tuition benefit for such courses. Students holding eligible assistantships are provided basic individual student health insurance coverage with related benefits. Details at <http://www.unl.edu/health/insurance/benefits> (<http://www.unl.edu/health/insurance/benefits>). The University subsidizes the student health insurance premium for eligible graduate assistants.

Departments may differentiate graduate teaching assistantship stipends by graduate student status (master's or doctoral-level, first year or experienced) or by number of hours of work required by the assistantship. Within departments and within each level of differentiation, stipends should generally be equivalent. Guidelines used to determine stipend levels should be available to students through the department or graduate committee chair.

Eligibility for assistantship benefits must meet all of the following criteria: the appointment is continuous and for four full months within the semester dates, the stipend meets the minimum salary level set by the University, and the assistantship or combination of assistantships in one or more departments totals at least 13.33 hours per week employment.

If a graduate assistant resigns or terminates the assistantship during the semester before four full months of service, all tuition benefits will be lost. The student then is responsible for the total tuition payment and health insurance premiums.

If a graduate assistant, while on an appointment during both semesters of the preceding academic year, was paid a stipend meeting the minimum qualification for summer tuition, the student is not charged tuition for the first 6 hours during the summer sessions. If such a stipend met the next level of qualification, the student is not charged tuition for the first 12 hours during the summer sessions. (Specific dollar amounts are available each year from the Office of Graduate Studies.)

A student on an ineligible appointment as a graduate teaching assistant or research assistant is allowed to pay tuition at resident rates if the stipend received is equal to, or greater than, the total of the amount set by the University for the relative summer session.

Correspondence courses do not qualify for tuition remission benefits and are billed directly to the student. Use of tuition remission for courses that do not directly contribute to degree completion may lead to loss of the tuition benefit for those courses.

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Policy Statement for Hiring Graduate Assistants

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General Responsibilities Associated with Graduate Assistantships

The purpose of a graduate assistantship is to provide financial support for a graduate student for a set period of time during which the student is expected to pursue activities towards the advanced degree. To hold a graduate assistantship, a student must be admitted to a department or area with a specific graduate degree objective and must be enrolled during the period of the assistantship. Each department or unit shall establish its own documented procedures for recruitment, selection, retention and dismissal of graduate assistants in accordance with UNL graduate policy and Affirmative Action/Equal Opportunity guidelines. These procedures shall be made available to each graduate student and posted in the department. Individual departments may establish a required minimum course load for funded students. Consideration should be given to the table under the "Certification of Benefits" section of this bulletin. Departments must provide students with an official signed letter of award, informing them of assistantship expectations, responsibilities, and compensation. The University of Nebraska-Lincoln is a signatory to the Council of Graduate Schools policy regarding the offering and acceptance of financial aid. Specifically, students are under no obligation to respond to offers of financial support for the coming academic year prior to April 15. In those instances in which a student accepts an offer before April 15, and subsequently desires to withdraw that acceptance, the student may submit in writing a resignation of the appointment at any time through April 15. However, an acceptance given or left in force after April 15 commits the student not to accept another offer without first obtaining a written release from the institution to which a commitment has been made.

Duties of the graduate assistant are assigned by the departmental chair/head, graduate committee chair, administrative supervisor, or others. Graduate assistants are expected to be assigned relevant professional work that may include, among other tasks, teaching or assisting in a course (under the supervision of a director or mentor), grading for a course, working in a department-sponsored laboratory or instructional center, assisting a professor on a research project, professional conference development, tutoring, or development of administrative skills. All projects must be supervised by a member of the graduate faculty or administrative staff. No graduate assistant should be assigned to a project which is primarily clerical or housekeeping. A portion of any project may have clerical elements, but all projects should incorporate decision-making, judgment, analysis and evaluation skills. Although students on graduate assistantships may not have employment exceeding 20 hours per week from all sources both on and off campus during the period of the assistantship, there is no limit to time spent on studies and research relating to the advanced degree. Recipients of graduate assistantships may qualify for additional funding through competitive fellowship awards. No additional service or work requirement is associated with fellowship awards.

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Criteria for the Evaluation of Assistants' Performance

Assistantships without a fixed term specified in the initial letter of offer may, at the discretion of the department, be renewed if the following criteria are met: 1) funding is available; 2) departmental guidelines for funding duration of a student are met; 3) the student is making satisfactory academic progress; and 4) the student's assistantship performance is judged to be satisfactory by his or her supervisor. Where the number of years of funding is within those specified in the initial letter of offer, an assistantship must be renewed if these four criteria are met.

The faculty member or staff person who supervises the assistant's work should conduct a timely written evaluation of the student's performance and provide a copy of that evaluation to the student and to the chair/director for placement in the student's file. This evaluation should take the following criteria into account: 1) prompt, efficient, and accurate completion of assigned tasks; 2) ability to work independently once tasks are explained; 3) ability to analyze problems and find solutions; 4) good student evaluations for instructional and tutoring assignments in courses, laboratory and clinical settings; 5) cooperation with mentor, director, and other assistants; and 6) professional and ethical behavior in all assigned tasks and duties including course studies and research.

Evaluations of performance shall not be influenced on the basis of sex, age, disability, race, color, religion, marital status, veteran's status, national or ethnic origin, or sexual orientation, nor shall they be influenced by students' exercise of their First Amendment freedoms of expression and association.

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Appeals

Students who believe their evaluation or dismissal in an assistantship has been prejudiced or capricious or who believe that their stipend is not commensurate with that of other graduate students having the same status in their department must first attempt to resolve the matter with the faculty/staff responsible for the assistantship.

If unsuccessful, the student may then file a written appeal to the graduate chair for consideration by the appropriate graduate committee. This appeal must be filed within 60 days of the evaluation or dismissal. A written determination of the appeal shall be presented to the student and supervisor. If the assistantship is not in an academic program, the UNL Dean of Graduate Studies would consider the appeal. If no action is taken on the appeal within 30 days of its filing or if the matter is not resolved to the student's satisfaction, the student may present the original appeal and documentation to the UNL Dean of Graduate Studies. If the dean determines that the appeal may have merit, the dean will request a review by a subcommittee of the Graduate Council. Upon subcommittee recommendation, the

full Graduate Council will meet and serve as the final level of appeal.

During the appeal process, if an evaluation or assistantship renewal or dismissal is overturned, the supervisor or graduate committee has the right of appeal, in writing, to the next level of review.

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Academic Freedom of Graduate Teaching Assistants

The academic freedom of graduate teaching assistants (GTAs) is not necessarily coextensive with that of faculty. All GTAs are engaged in supervised teaching or instruction. Supervisors are responsible for defining the nature, scope and manner of instruction to be used for each course. Supervisors should communicate the extent to which GTAs have discretion to introduce additional material. Graduate teaching assistants should follow the instructions of the supervisor. Graduate teaching assistants may not be penalized for expressing their own views on matters within the scope of the course, provided they adequately represent these views as their own.

In interpreting teaching evaluations, supervisors shall make every effort to distinguish legitimate critiques of the course from negative evaluations due to a) prejudice against the GTA on the basis of race, sex, sexual orientation, religion or other protected status, or b) disagreement with viewpoints expressed by the GTA or by students in the class.

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Loans and Need-Based Application Process

The Office of Scholarships and Financial Aid (OSFA) does not participate in the granting of fellowships or assistantships but does maintain current information on other forms of financial support available to students. To apply for Federal Work–Study, Federal Perkins Loans, Federal Stafford Loans, Unsubsidized Federal Stafford Loans, submit a Free Application for Federal Student Aid (FAFSA) to the processing center as soon as possible after January 1. Federal Perkins Loans and Federal Work–Study are awarded on a first–come, first–serve basis to domestic students with a completed financial aid file as long as funds are available.

(International students are ineligible to apply for federal loans.)

To have a completed file, a student must:

- Submit a FAFSA to the processing center.
- Be admitted to a degree program (contact OSFA for exceptions).
- If you are transferring to UNL or if you attended another postsecondary school as an undergraduate, submit a financial aid transcript to OSFA from all schools attended. A financial aid transcript is required even if you did not receive financial aid.
- Submit all documentation requested by OSFA as required for verification.

For additional information, contact:

Office of Scholarships and Financial Aid
University of Nebraska–Lincoln
17 Canfield Administration Building
PO Box 880411
Lincoln, NE 68588–0411
(402) 472–2030
www.unl.edu/scholfa

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Registration

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Graduate Student Registration

All students must register for classes prior to the first day of the semester. Newly admitted graduate students are encouraged to arrive early, so they can be on campus to meet with their advisers prior to registration. Registration for the first (fall) semester and for the summer sessions begins in mid–March; registration for the second (spring) semester begins in mid–October.

The Schedule of Classes contains information about procedures and dates pertaining to registration. Additional questions concerning graduate registration procedures should be referred to the Office of Graduate Studies, 1100 Seaton Hall, (402) 472–2875.

Students admitted to UNL Graduate Studies are not required to obtain the signature of the Graduate Dean during registration periods or for drops and adds (refer to "Drop and Add" for additional information), but they are required to consult with an adviser. Non-degree students must obtain the permission of the instructor of the class and may not enroll in masters thesis credits, doctoral dissertation credits, or doctoral seminars without permission of the Dean of Graduate Studies. Doctoral students who have advanced to candidacy status must be registered every academic semester until they graduate. Failure to maintain registration may result in the termination of the student's program.

Formerly enrolled graduate students who have not attended classes for three consecutive terms must request a reactivation of their eligibility to register for classes

by calling (402)472-2875 or emailing graduate@unl.edu.

Undergraduate students are not permitted to register at the 800 or 900 level except with the permission of the Dean of Graduate Studies. Undergraduate students interested in this option should request permission online at Graduate Credit for Undergraduate Students <http://research.unl.edu/gradstudies/credit/> (<http://research.unl.edu/gradstudies/credit/>)

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Auditing a Course

Auditing gives a currently enrolled student (or currently admitted student) the privilege of attending class, but credit is not earned and a grade is not assigned when auditing a class. All persons wishing to audit a course must be admitted and eligible to enroll in classes for the term in which they audit. Courses involving extensive laboratory work are generally not open to auditors.

Students who wish to audit a class must first register for the class. Pick up a Permit to Audit Card at Registration and Records, 107 Canfield Administration Building. Obtain the instructor's permission to audit the course by having him or her sign the Permit to Audit Card. Turn in the signed Permit to Audit Card at Registration and Records, 107 Canfield Administration Building, no later than the last day to add a class for the term.

Audited classes carry no credit and do not count toward full-time status. All audit cards for a term must be returned to Registration and Records, 107 Canfield Administration Building, no later than the last day to add a class. Audit cards turned in after the deadline will not be honored and the student will be subject to a grade. The fee for auditing a course is the same as the regular resident or non-resident tuition for the term, and both UPFF and other course fees apply to the class. To have an audit recorded on your academic record with an AU designation, request that your instructor submit a Change of Student Record Form to Registration and Records, 107 Canfield Administration Building, indicating the course was an audit and that you did attend.

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Tuition and Fees

Tuition and fee rates are subject to change at the direction of the Board of Regents. For the current tuition and fees charges in effect, visit the UNL Student Accounts homepage at <http://stuaccts.unl.edu> (<http://stuaccts.unl.edu>).

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Refunds

Students who elect to withdraw from the University within the first four weeks of a semester, or within the first two weeks of a summer session, may be entitled to a fractional refund of tuition. The conditions of eligibility for refunds are subject to change. The current conditions are set forth in each issue of the *Schedule of Classes*.

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Residency Status for Tuition Purposes

Regulations pertaining to resident status for tuition purposes are established by the Board of Regents. Initial determination of resident status is made at the time of admission and is noted on the Certificate of Admission. If a non-resident student wishes to change status, it is necessary to file an application with the Office of Graduate Studies, 1100 Seaton Hall. Full information on the requirements for resident status and the application forms are available at the Office of Graduate Studies and can also be downloaded from <http://admissions.unl.edu/applications/Residencyapp.pdf> (<http://admissions.unl.edu/applications/Residencyapp.pdf>)

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University Staff Exemption

Members of the academic-administrative, managerial-professional, and office-service staffs employed full time may be permitted to register for 15 credit hours each academic year (August through July). Participants are required to be fully admitted and to pay \$1 per credit hour plus technology fees.

Part-time staff members and those employed only for the summer session must pay regular fees.

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Employment and Registration

Graduate students holding any fellowship(s) are required to be enrolled as a full-time student as defined in the Graduate Studies Bulletin. Students with external or departmental fellowships must follow the specific granting agency requirements.

Graduate students holding a traineeship are required to be enrolled full-time or be full-time certified during the tenure of their traineeship. Other remunerative employment must follow the granting agency requirements.

A student who holds a graduate assistantship may not work more than half time, or 20 hours per week, all jobs considered, including assistantship(s) and paid internships. Internships are considered work in a training environment related to the student's educational career for which they receive pay. Therefore, an assistantship and an internship may not be held by a student simultaneously if the total hours between the two equal more than 20 hours per week. This applies to fall and spring terms only.

Graduate students who are not employed, or graduate research assistants who are performing duties that are 100 percent thesis related, may register for a maximum of 15 credit hours during an academic year semester, 6 credit hours during one five-week summer session, 9 credit hours during one eight-week summer session, or 3 credit hours during the pre-session.

Graduate students who are employed are advised not to exceed the following registration guidelines established by the Graduate Council.

Maximum Registration Guidelines (credit hours)

Hours Employed per wk	Academic Year Semester	8-week Summer Session	5-week Summer Session*	3-week Summer Pre-session
0	15	9	6	3
8-16	12	8	5	2
17-20	10	6	4	2
Full-time	6	4	3	1

*One course permitted for a maximum of 3 credit hours.

These guidelines reflect the fact that graduate-level course work serves mainly as a guide for independent, scholarly study. Graduate students are expected to master subjects and to devote substantial time in independent library and laboratory investigation beyond minimum credit hour requirements.

For courses offered within a summer session, a general guideline is a maximum registration of 1 credit hour per week of instruction.

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Summer Registration

Graduate assistants are not required to register for courses during the summer term. Graduate assistants employed in the summer but who are not registered for courses during the summer term are subject to FICA and Medicare taxes; fees for recreation center usage; limited access to libraries and health center fees.

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Full-time Status

Graduate students requiring certification as full-time students must be enrolled for at least 9 credit hours during an academic semester or at least 6 credit hours during summer sessions, whether or not the student holds a graduate assistantship. With approval of the Dean of Graduate Studies, students in a thesis-option masters degree program (i.e., Option I) or candidates for doctoral degrees, registered for fewer than the minimum hours required for a full program may be granted full-time status provided they are not employed more than 20 hours per week (half time). Form available at <http://www.unl.edu/gradstudies/current> (<http://www.unl.edu/gradstudies/current>).

In order to be eligible to utilize the full-time certification, the student must have been registered at least half time (i.e., at least 4 credits) in the fall and spring terms prior to the initiation of the full-time certification status. Masters students may utilize the full-time certification not longer than 12 months; doctoral candidates may utilize the full-time certification not longer than 24 months.

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Full/Part-time Status and Registration

Registration Requirements for Full/Part-time Status

Academic Year	
Full-time (F)	9 cr hrs
3/4-time (T)	6–8 cr hrs
1/2-time (H)	4–5 cr hrs
Less than 1/2-time (L)	1–3 cr hrs
Summer	
Full-time (F)	6 cr hrs
3/4-time (T)	4–5 cr hrs
1/2-time (H)	3 cr hrs
Less than 1/2-time (L)	1–2 cr hrs

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Financial Aid and Registration

Registration Requirements for Financial Aid

Academic Year	
Full-time (F)	9 or more cr hrs
3/4-time (T)	6–8 cr hrs
1/2-time (H)	4–5 cr hrs
Summer	
Full-time (F)	8 or more cr hrs
3/4-time (T)	6–7 cr hrs
1/2-time (H)	4–5 cr hrs

NOTE: Minimum registration required for financial aid during the summer is 4 credit hours of enrollment. These credits can be taken in different summer sessions; however, financial aid is disbursed during the session the student reaches half-time enrollment.

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Graduate Degrees Offered

The University of Nebraska–Lincoln offers 38 programs leading to doctoral degrees, 76 leading to masters degrees, and one leading to the educational specialist degree. A complete and up-to-date listing is available online at: <http://www.unl.edu/gradstudies/prospective/programs> (<http://www.unl.edu/gradstudies/prospective/programs>).

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Graduate Areas of Specialization

Areas of specialization are available in some departments. An area of specialization is a subdivision of a major in which strong graduate-level curriculum is available. Once they are approved by the Graduate Council, these areas of specialization are indicated after the major on official records and transcripts.

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Masters Degree with Double Major

Students accepted into a double major must meet, at least, the minimum requirements for each of the majors. This includes graduate work of no less than 18 to 24 credit hours in each of the two disciplines, but never fewer than 18 credits, excluding cross-listed courses in the second major. The precise number of credits may vary depending on the total required hours for a particular major. For each of the two majors, students must take at least 8 credits in courses open only to graduate students (900 level or *800 level), excluding thesis hours.

The student is required to successfully satisfy the comprehensive examination schedule (written and/or oral examination(s)) administered for each major. The examination committee for students electing for the double major masters shall consist of two graduate faculty members from each of the major departments/areas. The committee shall be co-chaired by a faculty member from each of the major departments. All professors on the examining committee must either be on the graduate faculty or be non-graduate faculty approved to perform specified graduate faculty duties. At least one of the two members from each

department must be on the graduate faculty.
For admission criteria, see "Admission to a Double Major."

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Second Masters Degree

Normally, no graduate student may be a degree-seeking student in more than one graduate program at the University of Nebraska, unless enrolled in an approved dual-degree program (see Dual Degree Programs below). Any exceptions must have prior approval of every Graduate Program Committee and every campus Dean for Graduate Studies through which the programs are administratively assigned. When a student has received an approved simultaneous matriculation for two masters programs, the same course credit will not be accepted for more than one degree without prior approval of every Graduate Program Committee and every campus Dean for Graduate Studies through which the programs are administratively assigned.

Students who have earned a previous graduate degree such as a masters degree at any institution including the University of Nebraska may seek additional masters degrees. The subsequent masters degree(s) may be in the same discipline as the previously earned degree(s), or in a different discipline. However, no graduate credits will be accepted as transfer credit toward a subsequent masters program if the course work has been applied toward a previously completed graduate degree at any accredited institution, including UNL. Graduate course work not previously applied toward a degree may be considered for transfer to a subsequent masters if the graduate credits were earned within 10 years of completing the masters degree at UNL.

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Dual Degree Programs

The professional program leading to the juris doctor degree is provided through the University of Nebraska College of Law. A number of dual degree programs are offered in cooperation with the College of Law and the Office of Graduate Studies. Presently, joint law/graduate degree programs exist with the departmental areas of accountancy; business administration; community and regional planning; journalism and mass communications; political science; and psychology. Students must be accepted separately by the College of Law and by the Graduate College of the University.

In addition, a dual-degree program is offered by the departments of architecture (MArch) and community and regional planning (MCRP); architecture (MArch) and business (MBA); MArch/MEng with construction emphasis; civil engineering (MS) and community and regional planning (MCRP); and Legal Studies (MLS) and Psychology (PhD). Students must be accepted separately by each degree program, with the knowledge and approval of the Graduate Dean. For more information, refer to the dual program descriptions in this bulletin under the appropriate departmental entry.

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Individualized Joint Graduate Programs

With approval of the Dean of Graduate Studies, individualized joint masters or doctoral programs may be proposed. The individualized joint program must be proposed by the participating graduate faculty members, and must be approved by all relevant departmental/area Graduate Committees prior to seeking approval from the Dean. Interested faculty members should contact the Office of Graduate Studies for more information.

Students who choose to pursue an individualized joint PhD program may earn a maximum of one masters degree in the context of their joint PhD program. That is, credit hours counted toward the joint PhD may not be applied to more than one masters degree. The doctoral supervisory committee determines whether a student may pursue a masters degree "along the way" to the joint PhD.

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Masters Degree Requirements

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Requirements for the Masters Degree

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Options for the Masters Degree

The Graduate College, except in a few departments where such a choice is not feasible, offers the degrees of master of arts and master of science under three options. Limitations concerning options for the masters degree in the individual majors are shown in the beginning portion of each department's requirements in the *Courses of Instruction* section of this bulletin. In choosing an option a student should be guided by the type of training desired. A masters degree student may change his/her declared Option at any time during the program of study with written approval from the adviser, the Chair of the Graduate Committee in the student's major and the Dean for Graduate Studies. **The only exception to this policy is that students may not change from Option I to any other Option if certification of full time status has been utilized.**

The major for the masters degree under any option may be met with approved courses selected from those offered in any department which has been approved to offer a program leading to the masters degree, refer to <http://www.unl.edu/gradstudies/prospective/programs> (<http://www.unl.edu/gradstudies/prospective/programs>).

A minor for the masters degree under any option must consist of at least 9 semester hours and may be taken in any one department or interdepartmental area which has been approved to offer a major leading to a masters degree. In addition, the minor may, in certain departments, be completed in a subdivision of the administrative department. Approved fields of study, which may be selected within each administrative department, must be approved by the Graduate Council for use as a minor and are indicated in this bulletin in the sections of the program for the respective departments.

Approved fields of specialization are listed under those sections of this bulletin which pertain to the departments concerned.

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Option I.

The masters degree under Option I should be chosen by those who are preparing for careers in research and scholarly work or in college or university teaching. Under this option a student must earn a minimum of 30 semester hours of credit, consisting of 20 to 24 semester hours of regular course work, and present a thesis equivalent to 6 to 10 semester hours. At least one-half of the required work, including thesis, must be taken in one major subject (at least 18 hours for the master of education degree). The remaining work may be in supporting courses or in a minor consisting of at least 9 semester hours. Eight hours credit, in addition to the thesis, must be earned in courses open exclusively to graduate students (900 level or 800 level without 400 or lower counterparts).

The subject of the thesis should be chosen from the candidate's field of major interest and must be approved by the departmental Graduate Committee. The thesis should reveal a capacity to carry on independent study or research and should demonstrate the student's ability to use the techniques employed in her/his field of investigation. **Research activities involving human subjects or live vertebrate animals may not be conducted at the University of Nebraska-Lincoln (UNL) unless the research activities have been reviewed and approved by the appropriate board or committee. The Institutional Review Board (IRB) reviews projects involving human subject research and the Institutional Animal Care and Use Committee (IACUC) reviews the use of animals in research. These reviews are in accordance with Federal regulations and UNL assurance documents to the Office for Human Research Protections (OHRP). The IRB New Protocol Submission form must be completed on-line at <http://nugrant.unl.edu> (<http://nugrant.unl.edu>); the Application to Use Animals is available at <http://research.unl.edu/orr/ga.shtml> (<http://research.unl.edu/orr/ga.shtml>). Note that the IRB and IACUC will not review projects already in progress; approval must be secured prior to the initiation of the research. Evidence of IRB/IACUC approval must be submitted at the time the final version of the thesis or dissertation is filed.** The thesis must conform in style and form to the guidelines set forth in the Guidebook for the Preparation and Submission of an Electronic Thesis found on the Graduate Studies website at <http://www.unl.edu/gradstudies/current/degrees#masters> (<http://www.unl.edu/gradstudies/current/degrees#masters>). An electronic copy of the thesis and abstract must be presented for preliminary review to the Masters Degree Specialist in the Office of Graduate Studies at least two weeks (one week in the summer sessions) before the date for the Candidate's oral examination. A Candidate is not eligible for the oral examination until the thesis is completed and approved by the major adviser. After the thesis has been successfully defended, it needs to be electronically submitted to the Masters Degree Specialist for a final review prior to being uploaded to digital commons.

Option I is not open for the master of professional accountancy degree.

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Option II.

The masters degree under Option II is offered in certain departments upon the advice and the approval of the major adviser, the Graduate Committee, and the Dean of Graduate Studies. This option encourages a wider range of courses than is permissible under Option I. Students who have taken the masters degree under Option II and later elect to continue in graduate work for the degree of doctor of philosophy must give evidence of ability to carry on independent research.

Under this option a student must earn a minimum of 36 semester hours of credit in courses representing a major and either one or two minors. A thesis is not required. A program consisting of a major and one minor must include not fewer than 18 hours in the major and 9 hours in the minor. If two minors are elected, the major must total at least 15 hours and the minors at least 9 hours each. Although most departments stipulate that all course work towards the minor must be taken within the department or interdepartmental area, at the discretion of the minor department up to one-third of the courses required for a minor may be transferred from other institutions. In either case, at least 12 of the 36 hours must be earned in courses open exclusively to graduate students (900 or 800 level without 400 or lower counterparts).

In work for the master of education degree, at least 6 semester hours selected from education courses outside the major must be included and supporting work may be substituted for the minor(s).

Option II is not open for the master of professional accountancy degree.

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Option III.

The masters degree under Option III is designed especially for the student who plans to continue scholarly work in a chosen field past the masters level. It permits the substitution of more intensive work in advanced courses for the thesis or minor. Under this option, the student must earn a minimum of 36 semester hours of credit, at least 18 of which must be earned in courses open exclusively to graduate students (900 or 800 level without 400 or lower counterparts). The program must include not fewer than 18 hours in the major.

Option III is not open for the master of education degree or to students seeking the masters of science degree in either agronomy or horticulture.

Students pursuing the master of professional accountancy degree must earn at least 20 semester hours of credit in courses open exclusively to graduate students. At least 15 semester hours of these graduate-only courses must be in Accounting.

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Residency and Time Requirements

A candidate for an Option I masters degree must complete 10-12 semester hours of the required credit in regularly scheduled campus courses, excluding credit in thesis research; candidates for Option II or III masters degrees must complete at least 18 hours in regularly scheduled campus courses. At least one-half of the work for a masters degree must be in the department or area constituting the student's major.

The work required for a masters degree must be completed within ten consecutive years. Course work exceeding ten years will not apply toward the partial fulfillment of the degree requirements for masters degrees at the University of Nebraska-Lincoln.

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Memorandum of Courses

The Memorandum of Courses must be filed before the student has received grades (letter grades, no reports or incompletes) in more than one-half of the prescribed program. It must also be approved by the student's adviser, the departmental or area Graduate Committee, the Graduate Committee in the student's minor, and by the Dean of Graduate Studies. **A student may NOT file a Memorandum of Courses and graduate in the same semester or summer session. See Master's Degree Forms and Deadlines on the Graduate Studies website <http://www.unl.edu/gradstudies/current/degrees#masters> (<http://www.unl.edu/gradstudies/current/degrees#masters>).**

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Admission to Candidacy

A student is admitted to Candidacy for the masters degree when admission deficiencies have been removed and when the ability to perform satisfactorily in graduate studies has been demonstrated, by filing a Memorandum of Courses in the Office of Graduate Studies.

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Masters Thesis

The masters thesis and abstract in preliminary form must be approved by the adviser prior to applying for the final oral examination or for its waiver (at least four weeks prior to the examination). An electronic copy of the thesis and abstract in preliminary form must be submitted to Masters Degree Specialist in the Office of Graduate Studies for approval at least two weeks (one week in summer) prior to the final oral examination. This copy will be reviewed by the masters degree specialist and the student notified of any changes to be made. Please refer to The Guidebook for the Preparation and Submission of an Electronic Thesis on the Graduate Studies website for the exact format to be followed <http://www.unl.edu/gradstudies/current/degrees#masters>

<http://www.unl.edu/gradstudies/current/degrees#masters>)

Following the successful completion of the oral examination, the student should submit another electronic copy to the Masters Degree Specialist for final approval. Once the student receives notification of final approval, the thesis should be uploaded to Digital Commons. Upon a successful upload, the student will receive an email notification which will need to be printed out. The student will then bring the printed notification, one copy of the title page, two copies of the abstract and their signed Final Examination Report Form to the Masters Degree Specialist in the Office of Graduate Studies. 1100 Seaton Hall. The title page and one of the abstracts will be stamped for approval and returned to the student for depositing in 318 Love Library. The Final Examination Report Form will be signed by the personnel in the Library and the student will proceed to the Cashier in Canfield Administration Building to pay the archiving fee. The cashier will sign off on the Final Examination Report Form and the student will then bring the form back to the Office of Graduate Studies.

The student should consult her/his major adviser about the number of additional copies of the thesis which should be prepared, and also about the binding of these copies. One copy must be filed in the departmental office of the major and ordinarily one copy is furnished to the major adviser who directed the study.

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Examinations

Within 24 months prior to the date of graduation, a comprehensive (written and/or oral) examination is (are) required to cover the student's approved program of study, as specified by the appropriate departments. The comprehensive examination in the minor field(s) (written and/or oral) may be waived subject to the approval of the minor department(s) provided all grades in the minor department are at least a B or pass.

If an oral examination is required, the examining committee, approved by the Office of Graduate Studies on recommendation of the major department, will consist of at least three members representing the major department and the minor department (if applicable). If the degree is being earned under Option I without a final oral examination, the thesis must be approved in writing by a Graduate Faculty member in addition to the major adviser. All professors on the examining committee must either be on the Graduate Faculty, or be non-Graduate Faculty approved to perform specified Graduate Faculty duties. If a member of the examining committee other than the chair leaves the employ of the University, or retires, a replacement should be appointed. In certain circumstances where a special and needed continuing expertise is involved and the faculty member is willing to continue serving, the departing faculty member may continue as a member or co-chair of the committee, with approval of the department Graduate Committee and the UNL Dean of Graduate Studies.

In the event that members of an oral examining committee are not unanimous regarding passing a Candidate, the student is to be approved for the degree if only one examiner dissents. However, in each case, the dissenting member of the committee will be expected to file a letter of explanation in the Office of Graduate Studies.

If a student fails to pass the final oral or written examination for an advanced degree, their committee must file a report on the failure in the Office of Graduate Studies and indicate what the student must do before taking another examination. Another examination may not be held during the same semester or the same summer session in which the student failed.

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Procedure Summary for the Masters Degree

This outline of procedure should be studied carefully in connection with the deadlines published in the UNL Graduate Studies calendar. See Master's Degree Forms and Deadlines on the Graduate Studies website <http://www.unl.edu/gradstudies/current/degrees#masters>

(<http://www.unl.edu/gradstudies/current/degrees#masters>).

1. Admission to UNL Graduate Studies.
2. Registration by consultation with the chair of the Graduate Committee and the major adviser and with the approval of the Dean of Graduate Studies.
3. Removal of admission deficiencies.
4. Memorandum of Courses, required for Candidacy, must be filed before grades (letter grades, no reports or incompletes) have been received in more than one-half of the program and on recommendation of the major and minor departments and approval of the Dean of Graduate Studies.
5. Application for advanced degree at the Graduation Services Office, 109 Canfield Administration Building, at the outset of the semester or session in which graduation is planned.
6. The Final Examination Report for the masters degree must be received in the Office of Graduate Studies at least four weeks (three weeks in summer) before the final examination, if required, but in no case later than four weeks before the final date for oral examinations. The report will be accepted after all course work on the program of studies has been completed, or is in progress, and any outstanding incompletes have been removed.
7. The presentation of a preliminary copy of the thesis and abstract to the Graduate Studies Office, two weeks (one week in summer) prior to the oral examination, if required. If the oral examination is waived, the preliminary copy of the thesis and abstract must be presented to the Office of Graduate Studies no later than two weeks before the final date for oral examinations for any given session.
8. Passing of written examinations, if required, in major and minor fields at least one week prior to the time the oral examination is to be taken.
9. Passing of an oral examination, if required, administered by the examining committee.
10. Confirmation of upload of thesis including the abstract to Digital Commons, one copy of the title page, two copies of the abstract and the signed Final Examination Report Form to Graduate Studies to be stamped. Title page and one abstract will be delivered to the Dean of University Libraries, and archiving fee is paid to the Cashier's Office. Upon receiving the signatures of the Library and the cashier on the Final Examination Report Form, it is returned to the Office of Graduate Studies.

Retrieved from "http://bulletin.unl.edu/graduate/Masters_Degree_Requirements (http://bulletin.unl.edu/graduate/Masters_Degree_Requirements)"

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Doctoral Degree Requirements

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Requirements for the Doctor of Philosophy Degree

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Academic Residency Requirements

The Office of Graduate Studies has established an academic residency requirement for the purpose of ensuring that the doctoral program should be reasonably compact, continuous, and cohesive; and that a substantial portion be in fact done at and under close supervision by the University. The academic residency requirement is part of the student's approved program.

For a student beginning a doctoral program in the University of Nebraska system with a bachelors degree, the academic residency requirement for the PhD is 27 hours of graduate work within a consecutive 18-month period or less, with the further provision that 15 of these 27 hours must be taken after receiving the masters degree or its equivalent.

For a student beginning a doctoral program in the University of Nebraska system with a masters degree, the academic residency requirement for the PhD is 27 hours of graduate course work within a consecutive 18-month period or less.

For 1) a member of the University staff who is engaged at least half time in instruction or research in their major area, or 2) a person employed in their major field, the residency requirement is 24 credit hours of graduate work within a consecutive two-year period with the further provision that they take at least 12 of these after receiving the masters degree or its equivalent. For important restrictions, refer to "University Staff Exemption."

In exceptional circumstances, where it is clear that the purpose of residency will be fulfilled although the above formal conditions are not met, the student's supervisory committee may, with the approval of the Dean of Graduate Studies, designate an alternative procedure for satisfying the residency requirements.

A minimum of three full years of graduate study is normally required to complete a program for the degree of doctor of philosophy. Neither the courses taken nor the time spent in study determines the granting of the degree. It is given primarily for high attainment in some special field of scholarship and for demonstrated power of independent research in a subdivision of this field.

The time limit on granting the doctoral degree is eight years from the time of filing the student's program of studies in the Office of Graduate Studies. The Supervisory Committee will determine what course work taken prior to filing of a program of studies, including hours earned toward the masters degree(s), will be accepted as part of the 90-hour program. The Committee is not obligated to reduce the doctoral program of studies by applying course work taken toward a previously earned masters degree(s). Prior course work should be assessed in relation to its contribution to framing a research foundation for the doctorate. Each course accepted must be determined to be current and relevant in relation to the desired degree.

Students who have earned a previous doctoral degree at any institution, including the University of Nebraska, may seek additional doctoral degrees. The subsequent doctoral degree(s) may be in the same discipline as the previously earned degree(s), or in a different discipline. However, no graduate credits will be accepted as transfer credit toward a subsequent doctoral program if the course work has been applied toward a previously completed doctoral degree at any institution, including UNL. Course work applied toward a previously earned masters degree may be considered for transfer to a subsequent doctorate at the discretion of the Supervisory Committee.

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Appointment of Supervisory Committee

In order to assure that students are under careful advisement and mentoring throughout their careers, a **Supervisory Committee is established before a doctoral student has accumulated 45 credit hours** including any transfer hours but excluding research or language tools. Upon recommendation of the departmental or area Graduate Committee in the student's major, the Dean of Graduate Studies appoints, for each student, a supervisory committee of at least four Graduate Faculty. All professors on the supervisory committee must either be on the Graduate Faculty or be non-Graduate Faculty approved to perform specified Graduate Faculty duties. At least one Graduate Faculty member external to the academic department or area in which the doctorate is to be granted must be included on the committee responsible for supervising the student's doctoral program of studies. The representative of the minor department on the committee may serve as the outside representative. The establishing of a supervisory committee is based upon the student's:

1. Demonstrated ability in the fundamental subject matter of his/her major field, and
2. Professional promise. The minor or related fields, if applicable, will be represented on the committee.

See Doctoral Degree Forms and Deadlines on the Graduate Studies website: <http://www.unl.edu/gradstudies/current/degrees#doctoral> (<http://www.unl.edu/gradstudies/current/degrees#doctoral>)

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Changes to the Supervisory Committee

If the chair of a PhD supervisory committee leaves the employ of the University or retires, the Office of Graduate Studies must be notified immediately and a change in the supervisory committee made as follows:

- a. Graduate Faculty who have retired and been appointed to emeritus status may co-chair the supervisory committees of doctoral students with a resident Graduate Faculty member.
- b. Retired faculty members not appointed as emeritus, relinquish their Graduate Faculty status and must be replaced on doctoral supervisory committees.
- c. If the student has already achieved Candidacy, the former chair who has left the employ of the University (not through retirement) may be permitted to continue as co-chair of the supervisory committee, with the concurrence of the departmental Graduate Committee and the UNL Dean of Graduate Studies. A second co-chair must be appointed who is a resident Graduate Faculty member.
- d. If the student has not yet achieved Candidacy, a new chair of the supervisory committee who is a resident Graduate Faculty member must be appointed immediately, with the concurrence of the departmental Graduate Committee and the UNL Dean of Graduate Studies.

If a member of the supervisory committee other than the chair leaves the employ of the University or retires, a replacement should normally be appointed who is a resident Graduate Faculty member. Faculty who have been appointed to emeritus status may continue as committee members. In certain circumstances where a special and needed continuing expertise is involved and the faculty member is willing to continue serving, he/she may continue as a member of the supervisory committee, with the approval of the Supervisory Committee Chair and the concurrence of the UNL Dean of Graduate Studies.

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Courtesy Members of Doctoral Supervisory Committees

(Policy change approved by UNL Graduate Council, 2-12-2009)

The UNL graduate faculty welcome associations with faculty members from other institutions who might contribute unique expertise to our doctoral programs. These external experts, who must hold a doctoral degree appropriate to the discipline and have academic accomplishments comparable to the criteria for UNL Graduate Faculty, are eligible for appointment as "courtesy" members of doctoral supervisory committees. Courtesy faculty are appointed as voting members of the supervisory committee and must be willing to participate in the student's doctoral program in a manner consistent with this role. The courtesy member may serve as one of the two appointed readers; but may not serve as committee chair, co-chair, or outside representative.

1. A courtesy association is not granted as a blanket status and must be approved separately for each supervisory committee upon which the individual is nominated to serve.
2. Only one courtesy member may serve on each supervisory committee, and the committee must include a minimum of four members of the University of Nebraska Graduate Faculty.
3. Appointment of a courtesy member is accomplished by the submission of the "Courtesy Committee Member" form signed by the supervisory committee chair and graduate committee chair. A current CV from the courtesy member should be submitted with this form (the CV may be e-mailed to ebachman1@unl.edu). See Doctoral Degree Forms and Deadlines on the Graduate Studies website: <http://www.unl.edu/gradstudies/current/degrees#doctoral> (<http://www.unl.edu/gradstudies/current/degrees#doctoral>)

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Program of Studies

Within the semester of its appointment the committee will meet to designate and subsequently to file in the Office of Graduate Studies a complete program of studies, including any language or research tool requirements, and the general area of research for the dissertation. The student's program of study must conform with one of the following plans:

1. The student chooses a major from the list of approved doctoral programs. At least half of the graduate work, including the dissertation, will be done in this field. The remaining work, subject to the approval of the supervisory committee, may include either:
 - a. supporting courses in the same or in related departments, or
 - b. a minor field of study outside of the major department. The minor must include at least 15 semester hours with 6 hours in courses open exclusively to graduate students (900 level or 800 level without 400 level or lower counterparts). It may be taken in any department which has been approved to offer a major leading to a masters degree. In addition, the minor for the PhD may, in certain departments, be completed in a subdivision of the administrative department. Approved fields of study, which may be selected within each administrative department, must be approved by the Graduate Council for use as a minor and are indicated in this bulletin in the sections of the programs for the respective departments.
2. The student may select a field of study which integrates material offered in two or more departments without meeting the specific major requirements as outlined under 1. Such a program of study must be in an approved interdepartmental area for which a special area Graduate Committee representing the departments concerned has been appointed by the Dean of Graduate Studies.

The committee is not obligated to accept credits beyond the masters degree which were completed prior to its appointment. At least half of the total program of courses and dissertation research must be completed following submission of the program to the Office of Graduate Studies. Any subsequent change in the program or in the dissertation topic is approved by the supervisory committee and the action reported to the Office of Graduate Studies.

The minimum amount of graduate credit is 90 semester hours, including a dissertation. **Not fewer than 45 semester hours must be completed at the University of Nebraska after the filing of the program of studies.** The PhD program will normally include a minimum of 12 hours and a maximum of 55 hours of dissertation research. The time limit on granting the doctoral degree is eight years from the time of filing the student's program of studies in the Office of Graduate Studies.

See Doctoral Degree Forms and Deadlines on the Graduate Studies website <http://www.unl.edu/gradstudies/current/degrees#doctoral> (<http://www.unl.edu/gradstudies/current/degrees#doctoral>)

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Language and Research Tool Requirement

There is no uniform language or research tool requirement for UNL Graduate Studies. However, certain departments have specific research tool requirements and/or language requirements, which are explained in the sections of this bulletin describing the program in the department or interdepartmental area.

Prior to admission to Candidacy and at least seven months before the final oral examination the student must have satisfied the language and research tool requirements for their department as noted in the bulletin.

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Comprehensive Examination and Admission to Candidacy

When a student has substantially completed studies in the doctoral program (PhD, EdD, DMA), he/she must pass a written comprehensive examination, in major and minor or related fields. The written comprehensive examination is not a repetition of course examinations but is an investigation of the student's breadth of understanding of the field of knowledge of which his/her special subject is a part.

At the discretion of the supervisory committee, the student may also be required to pass an oral comprehensive examination. The oral examination may include the minor or related fields in addition to the major field of study. The supervisory committee arranges for written or oral examinations.

When the student has passed the comprehensive examination, satisfied language and research tool requirements of her/his approved program, and removed any provisional admission requirements, the committee will recommend to the Office of Graduate Studies the doctoral student's admission to Candidacy by filing the Application for Admission to Candidacy for the doctoral degree, noting the dates of completing the comprehensive examination(s). **The application must be filed at least seven months prior to the final oral examination** (dissertation defense).

Following admission to Candidacy the student must register for at least one credit hour during each academic-year semester until he/she receives the doctoral degree, even if the student has already met the total dissertation hours on their approved program of study. Failure to register during each academic-year semester will result in termination of the program of study.

NOTE: Should the Supervisory Committee determine the student has failed the comprehensive examination, a letter must be submitted by the chair of the supervisory committee to the Dean of Graduate Studies stating the conditions under which the student may attempt another examination, or part thereof, not earlier than the following academic term. Typically, but upon the discretion of the supervisory committee, only two attempts to pass the comprehensive examination will be permitted.

For the Application for Admission to Candidacy form, see doctoral deadlines and forms at <http://www.unl.edu/gradstudies/current/degrees#doctoral> (<http://www.unl.edu/gradstudies/current/degrees#doctoral>)

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Final Examination

The final examination for the doctoral degree is oral and open to members of both the University community and the public. During the dissertation presentation and general questioning all persons may be present. However, at the end of the public hearing there will be a closed questioning portion of the examination where all persons except the Candidate, doctoral supervisory committee, and invited faculty must be excused. It is given by the supervisory committee after the Candidate's studies have been completed and the dissertation accepted. The committee also determines its character and length. The examination may be devoted to the special field of the dissertation or to the Candidate's general knowledge, or it may be designed to test judgment and critical powers.

The final oral examination for the PhD will not be scheduled unless a majority of the supervisory committee, including the chair, are available for the examination. Exceptions may be made only by permission of the Dean of Graduate Studies. In any event, the supervisor of the dissertation must have seen and approved the completed dissertation before the examination will be scheduled.

The final oral examination over the dissertation may be waived only with the consent of the Graduate Dean. The committee reports the results of the final oral examination to the Office of Graduate Studies.

In the event that members of an oral examining committee are not unanimous regarding passing a Candidate, the student is to be approved for the degree if only one examiner dissents. However, in each case, the dissenting member of the committee will be expected to file a letter of explanation in the Office of Graduate Studies.

If a student fails to pass the final oral examination for an advanced degree, his/her committee must file a report on the failure in the Office of Graduate Studies and indicate what the student must do before taking another examination. Another examination may not be held during the same semester or the same summer session in which the student failed.

See Doctoral Degree Forms and Deadlines on the Graduate Studies website: <http://www.unl.edu/gradstudies/current/degrees#doctoral> (<http://www.unl.edu/gradstudies/current/degrees#doctoral>)

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Dissertation

The dissertation is of no fixed length. It should treat a subject from the Candidate's special field, approved by the supervisory committee. It should show the technical mastery of the field and advance or modify former knowledge, i.e., it should treat new material, or find new results, or draw new conclusions, or it should interpret old material in a new light. Each candidate for the degree shall submit with the dissertation an abstract of the same, not exceeding 350 words in length including the title. A guidebook for dissertation preparation is available on the Office of Graduate Studies Web site. For specific formatting guidelines, the Guidebook should be consulted.

Research activities involving human subjects or live vertebrate animals may not be conducted at the University of Nebraska-Lincoln (UNL) unless the research activities have been reviewed and approved by the appropriate board or committee. The Institutional Review Board (IRB) reviews projects involving human subject research and the Institutional Animal Care and Use Committee (IACUC) reviews the use of animals in research. These reviews are in accordance with Federal regulations and UNL assurance documents to the Office for Human Research Protections (OHRP). The IRB New Protocol Submission form must be completed on-line at <http://nugrant.unl.edu> (<http://nugrant.unl.edu>); the Application to Use Animals is available at <http://research.unl.edu/orr/qa.shtml> (<http://research.unl.edu/orr/qa.shtml>). Note that the IRB and IACUC will not review projects already in progress; approval must be secured prior to the initiation of the research. Evidence of IRB/IACUC approval must be submitted at the time the final version of the thesis or dissertation is filed.

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Reading Committee

The dissertation and abstract are reviewed by a reading committee of two members from the supervisory committee, excluding the chair/co-chair. The manuscripts must be presented to members of the reading committee in time to permit review and approval, which must be indicated at least three weeks in advance of the final oral examination. The application for the final oral examination and a rough draft of the title page and abstract must be presented to the doctoral program specialist in the Office of Graduate Studies for preliminary review at least three weeks before the final oral examination.

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Depositing the Dissertation

Following the successful completion of the oral examination, the student should consult the instructions received at the time of filing the Application for Final Oral Exam before submission of required items in the Office of Graduate Studies, 1100 Seaton Hall.

Only abstracts/dissertations that meet all published requirements can be approved and stamped for depositing in 318 Love Library.

Before the degree is granted, each Candidate pays a processing fee, and if desired, an additional fee to cover the cost of registering a copyright.

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Summary of Procedure for the Doctor of Philosophy Degree

This summary of procedure should be studied carefully in connection with the Graduate College calendar. See Doctoral Degree Forms and Deadlines on the Graduate Studies website

<http://www.unl.edu/gradstudies/current/degrees#doctoral> (<http://www.unl.edu/gradstudies/current/degrees#doctoral>)

1. Admission to UNL Graduate Studies by the evaluation of official transcripts presented in person or by mail before registration.
2. Registration after consultation with advisers in major and minor departments.
3. Submission to the Office of Graduate Studies of an Appointment of the Supervisory Committee form approved by the departmental or area Graduate Committee before 45 hours of credit have been accumulated toward the degree.
4. Submission to the Office of Graduate Studies of a Program of Studies form approved by the supervisory committee setting forth the complete plan of study for the degree with a minimum of 45 hours exclusive of language and/or research tools remaining to be taken. The time limit on granting the doctoral degree is eight years from the time of filing a student's program of studies in the Office of Graduate Studies.
5. Satisfactory completion of foreign language or research tool requirements set forth in the approved program and passing of comprehensive examinations in major and minor or related fields when the student's program of courses is substantially completed.
6. Admission to Candidacy for the PhD degree by filing an application in the Office of Graduate Studies of the passing of the comprehensive examinations and the completion of language and research tool requirements (at least seven months before the final oral examination).
7. Filing of an application for the degree at the Office of Registration and Records, 107 Canfield Administration Building. This application is effective during the current term only. It must be renewed at the appropriate time if requirements for graduation are not completed until a later term.
8. Presentation of the dissertation and the abstract to the members of the reading committee in sufficient time for review and approval, which must be obtained at least three weeks before the final examination.
9. At least three weeks prior to the date of the oral examination, presentation to the Office of Graduate Studies of the application for final oral examination and a copy of the title page and abstract for preliminary review.
10. Passing of the required final oral examination.
11. Deposition of the required documents as detailed in the instructions received at the time of filing the application for Final Oral Exam with the Dean of University Libraries after approval by the doctoral programs specialist in the Office of Graduate Studies. Delivery of the Report on the Completion of the Doctoral Degree form, signed by members of the supervisory committee, the Dean of University Libraries, and the Comptroller, to the Office of Graduate Studies. In addition, one bound copy of the dissertation is to be deposited with the student's major department.

Requirements for the Degree of Doctor of Musical Arts

The residency and time requirements and the regulations pertaining to appointment of supervisory committees and submission of programs of studies for the doctor of musical arts are the same as those for the doctor of philosophy degree, refer to "Requirements for the Doctor of Philosophy Degree." Establishing the supervisory committee will depend upon the student's demonstrated ability in the fundamental subject matter of his or her field and on professional promise.

After admission requirements have been fulfilled, conferral of the DMA degree is contingent on a high level of attainment in the candidate's major area. In composition, this will include performances of compositions composed after acceptance into the doctoral program. Work submitted for approval must include one work for chamber ensemble and one work for orchestra or its equivalent. In performance and jazz studies, this will include four full recitals and one lecture recital. The literature performed at these recitals must be representative of all major schools and styles within the performer's chosen discipline. In conducting, three full recitals are required.

In addition, proficiency in music scholarship must be demonstrated by the completion of a doctoral document or, as determined by the composition faculty, other options for composition students, and completion of academic studies in music.

When a student has successfully completed the required coursework (excluding the final recital, applied music, ensemble and/or document), the student may petition for comprehensive examinations, which will be both written and oral. When these are successfully completed, the student is admitted to Candidacy for the degree. For further information, see "Comprehensive Examination and Admission to Candidacy" section. The presentation of the final recital or composition will take place after admission to Candidacy. The completion of the abstract and the doctoral document and its defense will complete requirements for the degree.

Procedure Summary for the Doctor of Musical Arts Degree

This summary of procedure should be studied carefully in connection with the Graduate College calendar. See Doctoral Degree Forms and Deadlines on the Graduate Studies website <http://www.unl.edu/gradstudies/current/degrees> (<http://www.unl.edu/gradstudies/current/degrees>)

1. Admission to the UNL Graduate Studies by the evaluation of official transcripts presented in person or by mail before registration.
2. Registration after consultation with advisers in major and minor departments.
3. Submission to the Office of Graduate Studies of an Appointment of the Supervisory Committee form approved by the departmental or area Graduate Committee.
4. Submission to the Office of Graduate Studies of a program setting forth the complete 90-hour plan of study for the degree with a minimum of 45 hours exclusive of language and/or research tools remaining to be taken.
5. Passing of comprehensive examinations in major and minor or related fields when the student's program of courses is substantially completed.
6. Admission to Candidacy for the DMA degree by filing a report in the Office of Graduate Studies of the passing of the comprehensive examinations and the completion of language and research tool requirements (at least seven months before the final oral examination). See "Comprehensive Examination and Admission to Candidacy" section.
7. Filing of an application for the degree at the Office of Registration and Records, 107 Canfield Administration Building. This application is effective during the current term only. It must be renewed at the appropriate time if requirements for graduation are not completed until a later term.
8. Presentation of the doctoral document and the abstract to the members of the reading committee in sufficient time for review and approval, which must be obtained at least three weeks before the final examination.
9. At least three weeks prior to the date of the oral examination, presentation to the Office of Graduate Studies of the application for final oral examination and a copy of the dissertation and abstract for preliminary review.

Requirements for Doctor of Education Degree

The emphasis here is upon the application of theory to the improvement of educational practice. The test of knowledge is the ability to demonstrate applicability to a variety of educational situations. Emphasis is upon the development of decision-oriented inquiry skills in which the educator applies theory and knowledge to the solution of educational problems. The person holding the doctor of education degree is a practitioner of education, but one whose practice is drawn from a highly developed, scholarly study of educational theory coupled with skills of analysis which permit direct application of that theory.

The program of studies must total 96 hours with a minimum of six research course hours included.

Academic Residency Requirements

The academic residency requirements for the EdD are the same as those for the PhD.

Hours of Credit

The minimum amount of graduate credit for the EdD is 96 hours, including both dissertation or field investigation and language or research tools, which will normally be at least 6 hours of credit.

Qualifying Procedure

The student who expects to become an applicant for a doctoral degree in education must: 1) have a bachelors degree from a regionally accredited institution with the same general requirements as those indicated for masters degree candidates; 2) show evidence of the scholastic ability necessary for the successful pursuit of advanced work; and 3) for the EdD give evidence of at least two years of successful professional experience or of a program of professional experience approved by the adviser.

Summary of Procedure for Doctor of Education Degree

Refer to *Summary of Procedure for the Doctor of Philosophy Degree* (<http://www.unl.edu/gradstudies/current/degrees#doctoral>) for the procedure to be followed for the doctor of education degree. It should be carefully studied in connection with the UNL Graduate Studies calendar. This information also covers the preparation of the dissertation or field investigation.

Requirements for Educational Specialist Degree

The EdS degree prepares educational practitioners for specialized positions in public and private schools. It is especially appropriate for those individuals who wish preparation beyond the masters degree level, but who are not interested in doctoral work with its emphasis on research. The EdS degree is a terminal degree and should not be viewed as a substitute for the doctorate nor as work completed toward it. See Educational Specialist Degree Forms and Deadlines on the Graduate Studies website <http://www.unl.edu/gradstudies/current/degrees#eds> (<http://www.unl.edu/gradstudies/current/degrees#eds>)

Hours of Credit

A minimum of 66 semester hours beyond the baccalaureate degree is required for the EdS degree. While specific requirements are determined by departmental units, in general 40 to 50 hours will be in core courses within the unit or closely related units, 3 hours or more will be research, 6 hours or more will be practicum, and 6 or more hours will be electives.

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Qualifying Procedure

Applicants for the EdS program should: 1) have a bachelors degree from a regionally accredited institution, and 2) take qualifying examinations as required by the field of specialization. Applications will be reviewed by faculty in the field of specialization and admission decisions made by the departmental graduate committee on the basis of academic and professional promise.

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Supervisory Committee

Students admitted into a specialist program should contact the head of the Graduate Committee of the department to make arrangements for appointment of members of the supervisory committee, including the chair. Supervisory committees for the EdS consist of three Graduate Faculty.

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Program of Studies

The program of studies for the EdS consists of core courses, research, practica, and electives. Appointment of the supervisory committee and approval of the program of studies by the Dean of Graduate Studies establishes the program of studies. **The student must complete at least 24 hours subsequent to approval of the program of studies.** The time limit on granting the EdS degree is six years from the time of filing the student's plan of studies in the Office of Graduate Studies.

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Comprehensive Examinations

A written comprehensive examination, developed by the supervisory committee, will be administered when the program is substantially complete. The committee determines the nature and duration of the examinations and will report the results to the Office of Graduate Studies.

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Requirements for Certificate of Specialization in Educational Administration and Supervision

The Department of Educational Administration offers a graduate-level administrator preparation program leading to a certificate of specialization in educational administration and supervision. The minimum requirement is 66 semester credit hours, in a program of studies specified by the Department.

All students seeking the certificate of specialization must be admitted to an appropriate program in the Department of Educational Administration. Information concerning application procedures and admission requirements may be obtained from the chair of the Department's Graduate Committee.

If the person is seeking a recommendation from the Department of Educational Administration for state administrator certification and/or endorsement, then at least one-half of the minimum number of semester credit hours in educational administration courses required in the program leading to that certification and/or endorsement must be earned through the Department of Educational Administration at the University of Nebraska-Lincoln.

For the certificate of specialization, a minimum of 30 semester credit hours of approved graduate credit must be earned after the completion of a masters degree program or equivalent requirements; of these 30 hours, at least 21 must be earned at the University of Nebraska-Lincoln. At least 15 semester hours of approved graduate credit must remain to be completed at the time the program is filed with the Office of Graduate Studies. The certificate must be completed within six consecutive calendar years from the time of the student's acceptance into the program by the Department. At the time of completion, none of the semester credit hours approved may be more than ten years old, except that for credit hours earned in a previous degree program there is no limit.

In addition to the course work, there are two other requirements: 1) completion of a formal research paper, which may be met by a masters degree thesis or Option II paper and other comparable research papers that may be approved; and 2) successful completion of a comprehensive written examination, which must be taken within the ten calendar months prior to graduation. A portfolio may be produced in lieu of fulfilling requirements 1 and 2.

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Requirements for Graduate Certificates

Certificates are available in a variety of disciplines and interdisciplinary areas. For more information, refer to Graduate Studies Web site.

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Academic Credit/Academic Progress Policies

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Academic Credit Policies

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Courses with Graduate Credit

Courses numbered in the 800 and 900 series offer graduate credit. Courses in the 900 series and those in the 800 series without counterpart 400 or lower series numbers are open exclusively to graduate students except by permission of the Dean of Graduate Studies. These 800-series courses are identified in this bulletin with an asterisk (*).

Courses numbered in the 500s, 600s and 700s are professional (law, dentistry, and architecture) level and carry graduate credit only if the letter "G" follows the course number.

Courses numbered 400 or lower are undergraduate level and cannot be applied towards a graduate degree.

The general prerequisite for courses in the 800 series is at least 12 hours of work in the same department or in approved courses in allied departments. The general prerequisite for courses in the 900 series is at least 18 hours in the same department which may include approved courses in allied departments.

A student who enrolls in a course must have completed the general prerequisite, including any specific prerequisite indicated for the course. According to policies governing graduate-level courses, there is a required differentiation of faculty expectation regarding student performance and therefore grading criteria.

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Graduate Credit for Seniors

Seniors at UNL may be permitted up to 12 hours of credit for graduate courses taken in addition to the courses necessary for their undergraduate degree, provided that these credits are earned the calendar year prior to receipt of the baccalaureate. Before registering for graduate courses, seniors must obtain approval from the Dean of Graduate Studies using the Grad Credit for Undergrads link <http://research.unl.edu/gradstudies/credit/> (<http://research.unl.edu/gradstudies/credit/>).

Holding graduate credit keeps a senior registered as a member of an undergraduate college and allows one to continue any undergraduate scholarship or financial aid awarded. Courses taken before one graduates do not always transfer as graduate credit to other institutions nor can there be a guarantee from the Office of Graduate Studies that these courses would apply toward a particular graduate program.

If someone on another University system campus wishes to take graduate level classes at UNL, an intercampus form should be used, and any arrangement to hold for graduate credit would have to be made at the student's home campus. UNL will not be able to certify graduate credit except for those students graduating at UNL. Students from schools outside of the University of Nebraska system will have to wait to receive graduate credit until they can qualify as graduate students.

UNL seniors who are within 9 hours of graduation may apply and be granted admission to UNL Graduate Studies. This admission and continued enrollment would be contingent upon receipt of the baccalaureate within the calendar year and would make one ineligible to continue any undergraduate scholarship or financial aid, but would allow one to apply for any financial support, fellowships, or assistantships open to graduate students.

Seniors in the University Honors Program are encouraged to consider taking 400/800-level courses at the 800 level with the concurrence of their adviser and permission of the instructor and Dean of Graduate Studies.

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Transfer of Credit

No graduate credits will be accepted as transfer credit toward a masters program at UNL if the course work is 10 years or older or if the course work has been applied toward a previous masters degree at UNL or any other accredited institution. Similarly, no graduate credits will be accepted as transfer credit toward a subsequent doctoral program if the course work has been applied toward a previously completed doctoral degree at any institution, including UNL.

All graduate credits to be counted toward the satisfaction of postbaccalaureate degree requirements, including all transfer credits, must be recommended by the cognizant graduate committee of the student's major department or area. Not less than 50 percent of the course work (excluding thesis) of the minimum number of graduate credits required for any subdoctoral graduate degree must be completed at the University of Nebraska. No graduate credits will be accepted as transfer credits unless earned at an institution fully accredited to offer graduate work in the field of the student's major; nor should the student expect any graduate credits to be transferred unless the graduate committee evaluates the quality and suitability and determines that they are equal to or superior to offerings available at the University of Nebraska-Lincoln.

Approval of the Office of Graduate Studies is required for the transfer of graduate work taken elsewhere to a graduate degree program at the University of Nebraska-Lincoln. It is the responsibility of the student to insure that official transcripts of graduate work taken elsewhere are sent by the institution where the work was completed and received by the Office of Graduate Studies well before the student plans to complete all other requirements for the graduate degree.

Official transcripts should be sent to:

Dean of Graduate Studies
University of Nebraska-Lincoln
1100 Seaton Hall
PO Box 880619
Lincoln, NE 68588-0619

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Credit by Examination

Credit by examination cannot be earned in graduate level courses or applied to graduate degree programs.

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Grading System

The University uses an A through F grading system. The letter grades with point value (in parentheses) are: A+ (4.0), A (4.0), A- (3.67), B+ (3.33), B (3.0), B- (2.67), C+ (2.33), C (2.0), C- (1.67), D+ (1.33), D (1.0), D- (0.67), and F (0). Grades of W (dropped/withdrew), I (incomplete), P (pass/C or better), and N (no pass) may also be given. W, I, P, and N are not assigned grade points.

Students taking undergraduate classes for deficiencies generally have a grade requirement set by the department. However, if no specific standard has been set, the graduate student is required to meet the same standard an undergraduate would be held to. That is, if the class is taken Pass/No pass, pass is the equivalent of a C or better.

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Scholastic Grade Requirements

Credit in graduate-level courses is attained as follows:

1. A minimum grade of B is required for graduate credit in 800-level courses with 400 or lower counterparts within the student's major department or area. A grade of B- is not acceptable.
2. A minimum grade of C or P (pass) is required for graduate credit in 800-level courses in minor, collateral, or supporting areas of work. A grade of C- is not

acceptable. **NOTE:** A grade of B- or lower received in a minor course will result in a minor comprehensive being required.

3. A minimum grade of C or P (pass) is required for graduate credit in 900-level courses, or 800-level courses without 400 or lower counterparts.

When applied toward an advanced degree program, only courses at the 900 level, or 800 level **without** 400 or lower counterparts, **in the major department or interdepartmental area** may be taken on a pass/no pass (P/N) basis. In **minor, collateral, or supporting areas of work** 800-level courses with 400 or lower counterparts can be taken on a P/N basis.

A student failing to receive a minimum acceptable grade for graduate-level credit may not continue his/her program of studies without permission of the supervisory group or the departmental graduate committee concerned, which may require a special examination to determine the student's qualifications for further work.

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Incompletes

Students taking graduate courses should check with their instructor on what their responsibilities are to remove an incomplete. Normally there is no time limit for graduate students to remove an incomplete. However, the instructor does have the option of determining the requirements for completing the course and requisite date for removal of incompletes. It is helpful to have these requirements in writing to ensure there is no miscommunication between the instructor and student.

Typically, thesis and dissertation credit hours are graded following the defense of these projects.

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Drop and Add

Students may drop or add classes from the beginning of priority registration through the last day on which classes may be added for a term. Dates are published each semester in the Schedule of Classes or the Summer Sessions Bulletin. Students who do not initially register for classes until after the beginning of the term will be charged a late registration fee. No course may be added to a student's record after the end of the add period (as published in the Schedule of Classes) without the permission of the instructor and the Office of Graduate Studies.

A course drop becomes effective for tuition and grade purposes on the date the transaction is processed by the student. Tuition liability for a course begins after the add period for a term.

A graduate student may drop a course without the instructor's permission 3/4 of the way through the course. Any graduate student wishing to drop one or more classes after the 3/4 point of the term can do so only with the permission of the Office of Graduate Studies. The Dean of Graduate Studies will consult with the course instructor prior to approval. All courses dropped after the second week of the term are noted on the student's academic record (transcript) with a "W" (withdrawn) grade designation.

For complete procedures, dates and regulations, refer to the current semester's Schedule of Classes or the Summer Sessions Bulletin.

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Correction of Registration Errors

A graduate student who has registered in error (for example, enrollment in the undergraduate level of a 400/800 course) should correct the error through the normal drop and add process during the term in which the error occurred. In the event the error is not recognized until a grade is posted, the student may appeal for correction of registration within sixty days of the posting of the grade report in the Records Office. Changes to a student registration record will not be made more than sixty days after grades are posted in the Records Office.

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Withdrawal

If a student wishes to drop all courses being taken in the term, this is considered a withdrawal. Withdrawals may be accomplished through the eRoll system or by filing a Cancellation/Withdrawal form with the Registration Office, 107 Canfield Administration Building. Students may withdraw from classes, regardless of circumstance, from the first day of classes through the 3/4-point of the term. Withdrawals that occur after the second week (or 2/16th) of the term but before the 3/4-point will be noted by automatic entry of a "W" grade for all uncompleted courses.

Any withdraw from classes after the 3/4 point of the term must be for extraordinary circumstances and will be granted only by petition through the Office of Graduate Studies. The Dean of Graduate Studies will consult with the course instructor prior to approval. The result of a successful petition will be posting of a grade of "W" on the transcript for the respective course(s). If the petition is denied the grade submitted by the instructor will be posted to the transcript.

If after the census date or the last day to add classes in each term the student decides to drop a course or courses and/or withdraw from the University, it is highly recommended that the student contact the Office of Scholarships and Financial Aid to discuss the implication the action may have on future eligibility to receive financial assistance.

If the student is on an assistantship, the student should contact the department Graduate Chair to discuss the ramifications of the withdrawal before actually withdrawing from the course work.

For complete procedures, dates and regulations refer to the current semester's Schedule of Classes or the Summer Sessions Bulletin.

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Probation, Termination and Appeals

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Probation and Termination

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Grounds for Probation and Termination of UNL Graduate Students

Graduate students at the University of Nebraska–Lincoln are expected to maintain a high level of achievement in their graduate studies. Accordingly, students who do not maintain satisfactory progress may be subject to being placed on probation, being terminated from a degree program, or being denied permission to continue graduate studies in the University. Except in cases of dismissal because of violations of the Student Code of Conduct, upon termination from a graduate degree program and/or dismissal from the Graduate College, students may apply for admission to another degree program or admission as a non-degree seeking student only with the approval of the Dean for Graduate Studies. No student on probation may receive a graduate degree.

Probation or termination recommendations may be made by the student's adviser (masters students), the Supervisory Committee (doctoral students), and must be approved by the Graduate Committee overseeing the student's major. The Graduate Committee overseeing the student's major must communicate the probation or termination recommendation in writing to the campus Dean for Graduate Studies. A copy of the recommendation must be sent to the student.

For all graduate students at UNL, probation or termination recommendations may be made under the following conditions: a) violations of the "Student Code of Conduct" listed in this bulletin, b) failure to satisfy "Scholastic Grade Requirements" also listed in this bulletin, c) failure in qualifying examinations, preliminary examinations, comprehensive examinations or final degree examinations, d) failure to master the methodology and content of one's field in a manner that is sufficient to complete a successful thesis or dissertation, or e) in fields leading to licensure or certification, ethical misconduct or lack of professional promise in the professional field. Termination recommendations may also be made if a student fails to satisfy conditions required for removal of probationary status or provisional admission. Graduate Committees wishing to adopt additional conditions for probation or termination must specify these conditions in writing and inform all students affected by these conditions.

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General Appeal Procedures for Academic Matters Concerning Graduate Students

(Approved by the Executive Graduate Council, December 11, 1980.)

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Appeal of General Academic Matters Related to Student Programs

A. Graduate students holding admission with unclassified status in the Graduate College, admission with a masters objective, or admission with a doctoral objective (but prior to the appointment of a doctoral supervisory committee) should appeal as follows:

1. Initially, the appeal should be submitted to the student's adviser.
2. If denied, the appeal may be submitted to the departmental or interdepartmental area Graduate Committee administratively responsible for the student's graduate program.
3. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program. Normally, this will be the final appeals body (for exceptions, see paragraph E).

B. Graduate students holding admission with a doctoral objective in the Graduate College and for whom a doctoral supervisory committee has been appointed should appeal as follows:

1. Initially, the appeal should be submitted to the student's adviser.
2. If denied, the appeal may be submitted to the student's supervisory committee.
3. If denied, the appeal may be submitted to the departmental or interdepartmental area Graduate Committee administratively responsible for the student's graduate program.
4. If denied, an appeal may be made to the Graduate Council for the campus administratively responsible for the student's graduate program. Normally, this will be the final appeals body (for exceptions, see paragraph E).

C. When a student's graduate program consists of registration essentially or entirely on one campus, the Graduate Council of the campus administratively responsible for the program will constitute the appeal board. When a student's graduate program includes substantial registrations on a campus other than the one administratively responsible for the program, three members of the Graduate Council for the other campus will be designated by the Dean of Graduate Studies on that campus to augment the Graduate Council on the campus administratively responsible for the program. In this case, the augmented Council will constitute the appeal board. The decision concerning augmentation of a campus Graduate Council for a specific appeal involving registrations on a campus other than the one administratively responsible for the student's program will be made by the Deans of Graduate Studies on the campuses involved.

D. In all cases, appeals should be made in writing to the appropriate adviser, committee, or council. In those cases where the appeal concerns graduate-level qualifying examinations, comprehensive examinations, or final examinations, the following deadlines must be observed. It is the responsibility of the student to make reasonable efforts to ascertain the results of the examination within 30 days after its completion. The initiation of the appeal, in writing, by the student must be filed within 30 days following the student's receipt of notification of the evaluation.

In those cases involving an appeal of termination of program, initiation of the appeal, in writing, by the student must be filed within 30 days following the student's receipt of the official written notification by the Office of Graduate Studies.

E.

1. There is no absolute right of appeal to the Executive Graduate Council. The Executive Graduate Council will accept appeals only in those cases where in the exercise of its sole discretion it shall first find that one or more of the following grounds for accepting the appeal exist:
 - a. That the campus Graduate Council has violated some element of fair procedure (i.e., has failed to allow the parties concerned to present their cases fully to their campus Graduate Council);
 - b. That the campus Graduate Council has failed to examine or give adequate weight to important evidence relevant to one party's position;
 - c. That the campus Graduate Council has given undue weight to evidence not pertinent to the case; or
 - d. That some gross miscarriage of justice would be perpetrated if the decision of the campus Graduate Council is allowed to stand.

A decision by the Executive Graduate Council not to accept jurisdiction of an appeal shall be final and is not subject to further appeal.

2. Appeals to the Executive Graduate Council must be made in writing and must specifically outline the grounds for the appeal. Such appeal must be made within 20 working days of the day the decision of the campus Graduate Council is received (working days shall not include those days the University is not in session).
3. The Executive Graduate Council must make a decision to hear the appeal or not to hear the appeal within 30 working days after receipt of the appeal. Acceptance or denial of jurisdiction over the appeal will be made in writing.
4. The decision of the Executive Graduate Council on the merits of the case will be made and transmitted to the concerned parties within 40 working days after the decision to hear the appeal.
5. No person who was a member of the department or campus Graduate Council involved in the case will be eligible to participate in the decisions of the Executive Graduate Council either to decide whether the case should be heard or to decide the merits of the case. However, the Dean for Graduate Studies may replace members of the Executive Graduate Council not eligible for participation in the decision to hear the appeal or in the appeal itself.

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Appeal of Grades in Graduate-level Courses

(Approved by UNL Graduate Council, March 9, 1993.)

Appeal of grades in graduate-level courses shall be made through the graduate student grade appeal procedures for the campus through which the grade was awarded.

Students who believe their evaluation in a course has been prejudiced or capricious must first attempt to resolve the matter with the course instructor. If unsuccessful, the student may then file a written appeal to the Graduate Chair for consideration by the Graduate Committee responsible for the administration of the course. This appeal must be filed within sixty days of the posting of the grade report by the UNL Records Office. If the department does not have a graduate program, the standing grade appeal committee of the department would consider the appeal. A written determination of the appeal shall be presented to the student and instructor.

If the matter is unduly delayed or not resolved, the student may present the original appeal documentation to the UNL Dean of Graduate Studies who shall request a review by a subcommittee of the Graduate Council. A last appeal may be made to the full Graduate Council, if it agrees to hear the case.

Since awarding grades in courses occurs at the individual campus level, the decision of the UNL Graduate Council shall be final and is not subject to further appeal beyond the campus.

During the appeal process, if the instructor's grade is overturned, the instructor of record has the right of appeal, in writing, at successive levels of review.

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Guidelines for Good Practice in Graduate Education

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Faculty and Graduate Students

A primary purpose of graduate education at the University of Nebraska is to instill in each student an understanding of and capacity for scholarship, independent judgment, academic rigor, and intellectual honesty. It is the joint responsibility of faculty and graduate students to work together to foster these ends through relationships which encourage freedom of inquiry, demonstrate personal and professional integrity, and foster mutual respect.

Graduate student progress toward educational goals at the University of Nebraska is directed and evaluated by an adviser, the relevant graduate committee, and the student's supervisory committee. The adviser and the individuals on the committee provide intellectual guidance in support of the scholarly/creative activities of graduate students. The adviser, the supervisory committee, and the graduate committee also are charged with the responsibility of evaluating a graduate student's performance in scholarly/creative activities. The graduate student, the adviser, the supervisory committee, and the graduate committee comprise the basic unit of graduate education at an institution. It is the quality, breadth, and depth of interaction within this unit that largely determines the outcome of the graduate experience.

High quality graduate education depends upon the professional and ethical conduct of the participants. Faculty members and graduate students have complementary responsibilities in the maintenance of academic standards and the creation of high quality graduate programs. Excellence in graduate education is achieved when both faculty and students are highly motivated, possess the academic and professional backgrounds necessary to perform at the highest level, and are sincere in their desire to see each other succeed.

Graduate students must be viewed as early-stage professionals, not as students whose interest is guided by the desire to complete the degree. Graduate students have made a career choice and must be viewed and treated as the next generation of professionals.

To accomplish this, it is essential that graduate students:

- Conduct themselves in a mature, professional, ethical, and civil manner in all interactions with faculty and staff in accordance with the accepted standards of the discipline and University of Nebraska policies governing discrimination and harassment.
- Recognize that the faculty adviser provides the intellectual and instructional environment in which the student conducts research, and may, through access to teaching and research funds, also provide the student with financial support.
- Expect that their research results, with appropriate recognition, may be incorporated into progress reports, summary documents, applications for continuation of funding, and similar documents authored by the faculty adviser, to the extent that the student's research is related to the faculty adviser's research program and the grants which support that research.
- Recognize that faculty have broad discretion to allocate their own time and other resources in ways which are academically productive.
- Recognize that the faculty adviser is responsible for monitoring the accuracy, validity, and integrity of the student's research. Careful, well conceived research reflects favorably on the student, the faculty adviser, and the University of Nebraska.
- Exercise the highest integrity in taking examinations and in collecting, analyzing, and presenting research data.
- Acknowledge the contributions of the faculty adviser and other members of the research team to the student's work in all publications and conference presentations; acknowledgment may mean co-authorship when that is appropriate.
- Recognize that the faculty adviser, in nearly every case, will determine when a body of work is ready for publication and an acceptable venue, since the faculty adviser bears responsibility for overseeing the performance of the students and ensuring the validity of the research.
- Maintain the confidentiality of the faculty adviser's professional activities and research prior to presentation or publication, in accordance with existing practices and policies of the discipline.
- Take primary responsibility to inform themselves of regulations and policies governing their graduate studies and the University of Nebraska.
- Recognize that faculty and staff have many professional responsibilities in addition to graduate education.

Correspondingly, it is imperative that faculty:

- Interact with students in a professional and civil manner in accordance with the accepted standards of the discipline and the University of Nebraska policies governing discrimination and harassment.
- Impartially evaluate student performance regardless of religion, race, gender, sexual orientation, nationality, or other criteria that are not germane to academic evaluation.
- Serve on graduate student committees without regard to the religion, race, gender, sexual orientation, or nationality of the graduate student candidate.
- Prevent personal rivalries with colleagues from interfering with their duties as graduate advisers, committee members, or colleagues.
- Excuse themselves from serving as advisers, on graduate committees or supervising assistantship work when there is a familial or other relationship between the faculty member and the student that could result in a conflict of interest.
- Acknowledge student contributions to research presented at conferences, in professional publications, or in applications for copyrights and patents.
- Not impede a graduate student's progress and completion of his/her degree in order to benefit from the student's proficiency as a teaching or research assistant.
- Create in the classroom, lab, or studio, supervisory relations with students that stimulate and encourage students to learn creatively and independently.
- Have a clear understanding with graduate students about their specific research responsibilities, including time lines for completion of research and the thesis or dissertation.
- Provide oral or written comments and evaluation of student's work in a timely manner.
- Discuss laboratory and/or departmental authorship policy with graduate students in advance of entering into collaborative projects.

- Ensure an absence of coercion with regard to the participation of graduate students as human research subjects in their faculty adviser's research.
- Refrain from requesting students to do personal work (mowing lawns, baby-sitting, typing papers, etc.) with or without appropriate compensation.
- Familiarize themselves with policies that affect their graduate students.

Graduate education is structured around the transmission of knowledge at the highest level. In many cases, graduate students depend on faculty advisers to assist them in identifying and gaining access to financial and/or intellectual resources which support their graduate programs. In addition, faculty advisers, program chairs, etc. must apprise students of the "job market" so that students can develop realistic expectations for the outcomes of their studies.

In some academic units, the student's specific adviser may change during the course of the student's program, either because of faculty or student wishes. The role of advising may also change and become a mentoring relationship.

The reward of finding a faculty adviser implies that the student has achieved a level of excellence and sophistication in the field, or exhibits sufficient promise to merit the more intensive interest, instruction, and counsel of faculty:

To this end, it is important that graduate students:

- Devote an appropriate amount of time and energy toward achieving academic excellence and earning the advanced degree.
- Be aware of time constraints and other demands imposed on faculty members and program staff.
- Take the initiative in asking questions that promote understanding of the academic subjects and advances in the field.
- Communicate regularly with faculty advisers, especially in matters related to research and progress within the graduate program.

Correspondingly, faculty advisers should:

- Provide clear maps of the requirements each student must meet, including course work, languages, research tools, examinations, and thesis or dissertation, and delineating the amount of time expected to complete each step.
- Evaluate student progress and performance in regular and informative ways consistent with the practice of the field.
- Help students develop interpretive, writing, oral, and quantitative skills, in accordance with the expectations of the discipline.
- Assist graduate students in the development of grant writing skills, where appropriate.
- Take reasonable measures to ensure that graduate students who initiate thesis or dissertation research/creative activity do so in a timely fashion, regardless of the overall demands of the laboratory/studio.
- When appropriate, encourage graduate students to participate in professional meetings or display their work in public forums and exhibitions.
- Stimulate in each graduate student an appreciation of teaching, and promote the acquisition of teaching skills where appropriate.
- Create an ethos of collegiality so that learning takes place within a community of scholars.
- Prepare students to be competitive for employment which includes portraying a realistic view of the field and the job market and making use of professional contacts for the benefit of their students, as appropriate.
- Create an environment of the highest ethical standards and insist that the student behave ethically in all their professional activities.

In academic units, faculty advisers support the academic promise of graduate students in their program. In some cases, academic advisers are assigned to entering graduate students to assist them in academic advising and other matters. In other cases, students select faculty advisers in accordance with the disciplinary interest or research expertise. Advising is variant in its scope and breadth and may be accomplished in many ways.

A student's academic performance and a faculty member's scholarly interest may coincide during the course of instruction and research/creative activity/performance. As the faculty-graduate student relationship matures and intensifies, direct collaborations may involve the sharing of authorship or rights to intellectual property developed in research or other creative activity. Such collaborations are encouraged and are a desired outcome of the mentoring process.

This document was approved for distribution on September 16, 1997 by the University of Nebraska-Lincoln Graduate Council. It was revised from the document entitled "University of Nebraska Medical Center Guidelines for Good Practice in Graduate Education" which was approved by their Graduate Council on July 18, 1996. Materials are used by permission.

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Graduate Student Association

The Graduate Student Association (GSA) exists to serve and represent graduate students—a unique and important population of students at the University of Nebraska–Lincoln. GSA promotes the intellectual community of graduate education; sponsors opportunities for professional development; creates opportunities for social interaction among graduate students; and advocates for issues relevant to graduate students and graduate education. The GSA, as a recognized student organization, works in cooperation with the Office of Graduate Studies and University administration to create a quality educational and professional experience for graduate students.

[↵](#)

Online and Distance Education

Technology has changed the face of education forever. At the University of Nebraska–Lincoln we've embraced the future by connecting world-class faculty and teachers with students from around the world.

We offer:

- Online high school courses and programs
- Online undergraduate courses and degree completion options
- Online and hybrid graduate courses, certificates, master's and doctoral programs

<http://online.unl.edu/> (<http://online.unl.edu/>)

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International Students

International students comprise a significant portion of our applicants and our graduate student body. Our international applicants come from a wide variety of linguistic and educational backgrounds and are affected by U.S. immigration regulations. For information on visa and immigration regulations, contact the staff in the International Students and Scholars Office.

The University of Nebraska–Lincoln has many international initiatives, available resources, and services for prospective and current students and scholars. Through International Engagement, faculty, students, staff, and alumni can learn more about Education Abroad opportunities, explore academic programs with an international focus, connect with the Confucius Institute, the American Exchange Center, and international alumni, and support UNL's international engagement efforts.

<http://international.unl.edu> (<http://international.unl.edu>)

[↵](#)

Student Services

[↵](#)

University Housing

University Housing provides options which reflect the diversity of the student body, including residence hall rooms for single students and apartments for families. In addition to the numerous living arrangements offered by University Housing, students can find many affordable apartments close to campus.

<http://housing.unl.edu/> (<http://housing.unl.edu/>)

[↵](#)

University Police

Campus safety and security are coordinated by University Police Services. Officers patrol both Lincoln campuses 24 hours a day and work closely with the Lincoln Police Department and county, state and federal authorities on law enforcement matters.

<http://police.unl.edu/> (<http://police.unl.edu/>)

[↵](#)

OASIS

The Office of Academic Support and Intercultural Services (OASIS) supports all UNL students, with emphasis on supporting students of color. Its student staff and program coordinators are familiar with the special needs of students of color on a predominantly white campus.

<http://www.unl.edu/oasis/> (<http://www.unl.edu/oasis/>)

The Office of Trio Programs offers a comprehensive series of unique support services for students whose ethnic background is African American, Hispanic/Latino, Native American, or Asian American, as well as qualified students who are low-income or first-generation.

<http://www.unl.edu/trioprog/> (<http://www.unl.edu/trioprog/>)

Q

University Health Center

The University Health Center provides quality, convenient and affordable health care to students at UNL. Clinical services include primary medical care, access to specialist evaluations, counseling and psychological services, dental care, physical therapy and nutritional counseling. Students also have access to pharmacy, laboratory and radiology services plus a wide range of health education programs.

<http://health.unl.edu/> (<http://health.unl.edu/>)

Q

Nebraska Unions

The Nebraska Union, Nebraska East Union, and Culture Center are full-service community centers designed for use by everyone at the University--students, faculty, staff, alumni and visitors.

<http://www.unl.edu/neunion/> (<http://www.unl.edu/neunion/>)

Q

Student Involvement

Student Involvement serves as headquarters for student activities at UNL. Student Involvement coordinates services for student organizations, maintains an activities calendar and a resource library, and sponsors several UNL programs.

<http://involved.unl.edu/> (<http://involved.unl.edu/>)

Q

Student Technology Training

This division of information services offers free software workshops to UNL students as part of their Student Technology Fee. For more information please visit the web site.

<http://training.unl.edu/> (<http://training.unl.edu/>)

Q

Career Services Center

Career Services helps students clarify and achieve career goals. The Center provides individual career counseling, a Career Resource Library, job listings, an online resume system, and several career-related programs and events.

<http://www.unl.edu/careers/> (<http://www.unl.edu/careers/>)

Q

Services for Students with Disabilities

NU offers opportunities for all students to take full advantage of its programs and facilities. Services for Students with Disabilities provides services that help disabled students become integrated into the mainstream academic life. The SSD office provides test accommodations, note takers, taped textbooks, interpreters, C Print services, brailled materials, assistance with accessible classroom identification, and other needed accommodations.

<http://www.unl.edu/ssd/> (<http://www.unl.edu/ssd/>)

Q

University Bookstores

The University Bookstores are owned by the University and operated by the Follett Higher Education Group. Both bookstores carry textbooks and school supplies, gift items, sundries, University memorabilia, and Club Red clothing. Both also provide optional free textbook reservation and can save students money through the used textbook program.

<http://www.unebraska.bkstr.com/> (<http://www.unebraska.bkstr.com/>)

Q

Campus Recreation

Campus Recreation provides students, faculty and staff with a variety of recreational facilities and programs, including weight training and conditioning equipment, multipurpose sport courts, swimming pool, indoor climbing wall, running track, indoor turf field, massage therapy center, and more.

<http://www.unl.edu/crec/> (<http://www.unl.edu/crec/>)

Q

ASUN Student Government

The Association of Students of the University of Nebraska (ASUN) functions as the primary representative body for UNL students, and much of its work is conducted by committees and commissions open to any interested UNL students. ASUN also sponsors a Student Legal Services Center, a prepaid legal advising, counseling, and limited litigation service funded by student fees.

<http://asun.unl.edu/> (<http://asun.unl.edu/>)

Q

Daily Nebraskan

The Daily Nebraskan, a prominent student voice in campus life, is staffed by students in advertising, editing and reporting positions. Any student is eligible to apply for openings on its staff, the makeup of which changes each semester.

<http://www.dailynebraskan.com/> (<http://www.dailynebraskan.com/>)

Q

Resources and Facilities

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Athletic Department

As a member of the Big 12 Conference, UNL fields and hosts many of the finest NCAA teams, and the Athletic Department maintains sports facilities which rank among the best in the nation.

<http://www.huskers.com/> (<http://www.huskers.com/>)

Q

The Lied Center for Performing Arts

serves students and the wider community by bringing the world's finest arts and entertainment to its stage. It's 2,278-seat hall was designed for the staging of major musical, theatrical and dance events, and meet the needs of regional, national and international touring companies.

<http://www.liedcenter.org/> (<http://www.liedcenter.org/>)

Q

Kimball Recital Hall

provides acoustically-sound performance space for students and faculty.

[⌵](#)

The Temple Building

houses all theatre classes as well as the administrative offices and performance spaces of the Department of Theatre Arts.

[⌵](#)

The Bob Devaney Sports Center

with its 13,500-seat arena, is a multi-sport complex for the Nebraska Cornhuskers. It also hosts performances by national recording stars.

[⌵](#)

Information Services

Information Services offers a broad range of computing and telecommunications services designed to meet the information technology needs of the diverse University of Nebraska-Lincoln community. Services and facilities include public computer labs, laser printing and scanning, free electronic mail accounts, consulting and a computer shop for sales and repairs. The Instructional Technology Group and the New Media Center provide support to instructors seeking to integrate digital media technologies into their teaching methods.

<http://is.unl.edu/> (<http://is.unl.edu/>)

[⌵](#)

Libraries

The University's library system and services are extensive, including 2.5 million volumes and thousands of active periodicals and serials. Supplementing traditional services, the Innovative Research Information System (IRIS) offers the Library's electronic catalog, general and specialized journal indexes, full-text electronic journals, and access to Internet resources.

<http://iris.unl.edu/> (<http://iris.unl.edu/>)

[⌵](#)

Museums and Galleries

[⌵](#)

Sheldon Memorial Art Gallery and Sculpture Garden

One of the nation's most respected university art museums, with a permanent collection of over 12,000 objects.

<http://sheldon.unl.edu/> (<http://sheldon.unl.edu/>)

[⌵](#)

Eisentrager-Howard Gallery

Contemporary artwork by local, national, and international artists.

http://www.unl.edu/art/facilities_eisentrager-howard.shtml (http://www.unl.edu/art/facilities_eisentrager-howard.shtml)

[⌵](#)

Great Plains Art Collection

Over a thousand sculptures, paintings, drawings, prints and photographs.

<http://www.unl.edu/plains/gallery/gallery.shtml> (<http://www.unl.edu/plains/gallery/gallery.shtml>)

[⌵](#)

University of Nebraska State Museum

World famous for its mounted skeletons of elephants and their close fossil relatives surrounded by exhibits on Nebraska paleontology, cultural diversity and biological diversity.

<http://www.museum.unl.edu/> (<http://www.museum.unl.edu/>)

[⌵](#)

Robert Hillestad Textiles Gallery

From art to apparel, from the Occident to the Orient, from past to present, and from emerging artists to the acclaimed.

<http://textilegallery.unl.edu/> (<http://textilegallery.unl.edu/>)

[⌵](#)

International Quilt Study Center

Dedicated to the collection, preservation, exhibition, study and to promoting discovery of quilting traditions, the Center holds the world's largest collection of quilts numbering more than 2300 from over 24 countries.

<http://www.quiltstudy.org> (<http://www.quiltstudy.org>)

[⌵](#)

Lentz Center for Asian Culture

Enriching knowledge and understanding of Asia through exhibitions, lectures, and musical events.

<http://www.unl.edu/lentz/> (<http://www.unl.edu/lentz/>)

[⌵](#)

Nebraska State Historical Society

Interpretive museum exhibits illustrating Nebraska's past.

<http://www.nebraskahistory.org/index.shtml> (<http://www.nebraskahistory.org/index.shtml>)

[⌵](#)

University of Nebraska-Lincoln Television

University of Nebraska-Lincoln Television, station KUON-TV, is recognized nationally for its quality programs, produced for Nebraska audiences and for regional and national distribution, and for its development of innovative program services involving new telecommunications technologies.

Nebraska Educational Telecommunications: <http://netnebraska.org/> (<http://netnebraska.org/>)

[⌵](#)

Office of Research

Research plays an integral role in the mission of the University of Nebraska-Lincoln. By encouraging the discovery of new knowledge and supporting scholarly initiative in all fields of study, the University constantly brings innovative ideas, techniques, and perspectives into UNL classrooms. Please visit the Web site of the

Academic Colleges

- [College of Agricultural Sciences and Natural Resources \(/graduate/College_of_Agricultural_Sciences_and_Natural_Resources\)](#)
- [College of Architecture \(/graduate/College_of_Architecture\)](#)
- [College of Arts and Sciences \(/graduate/College_of_Arts_and_Sciences\)](#)
- [College of Business Administration \(/graduate/College_of_Business_Administration\)](#)
- [College of Education and Human Sciences \(/graduate/College_of_Education_and_Human_Sciences\)](#)
- [College of Engineering \(/graduate/College_of_Engineering\)](#)
- [Hixson-Lied College of Fine and Performing Arts \(/graduate/Hixson-Lied_College_of_Fine_and_Performing_Arts\)](#)
- [College of Journalism and Mass Communications \(/graduate/College_of_Journalism_and_Mass_Communications\)](#)
- [College of Law \(/graduate/College_of_Law\)](#)

College of Agricultural Sciences and Natural Resources

Since the establishment of the University of Nebraska in 1869 and its commitment to the terms of the land-grant college act, instruction in agriculture and natural resources has provided opportunities for undergraduate and graduate students to develop intellectually and meet the challenges of their era. In 1887 research programs were established and in 1914 the cooperative extension service was created. In 1974 the Institute of Agriculture and Natural Resources was formed, bringing under one roof the varied agricultural and natural resources programs--College of Agricultural Sciences and Natural Resources, Agricultural Research Division, Cooperative Extension and numerous departments and centers.

The College of Agricultural Sciences and Natural Resources offers academic programs challenging undergraduate and graduate students to explore and discover through new technologies, ways to conquer the complex changes in agriculture, life sciences, natural resources, the environment, the economy, society, and geopolitical structures and to bring about solutions to the demands and issues of tomorrow's exciting world. The School of Natural Resources was formed in August 1997 and coordinates the college's programs in natural resources.

Through the College's tradition of scholarly excellence, in conjunction with the versatility of undergraduate and graduate study programs, students are able to pursue educational studies that will prepare them for competitive careers. The College promotes undergraduate and graduate programs that bring students and faculty members together in inquiry, discovery and integration of learning, application and problem-solving across the disciplines of the College and the University. Highly qualified faculty members, dedicated to learning and recognized for their scholarly activity in teaching, research, and extension, provide instruction and advising to undergraduate and graduate students.

The Agricultural Research Division is the research component of the Institute of Agriculture and Natural Resources. Most of the research faculty are on joint appointments as teaching faculty in the College. Research scientists are located on the East Campus of the University of Nebraska-Lincoln as well as at research and extension centers throughout the State. A broad range of modern research laboratories, greenhouses, and land is used for investigation. World-class resources add to other facilities in food science and technology, a Food Science Processing Center and an Animal Science Complex. Opportunities are available for assistantships and fellowships for qualified graduate students.

The College of Agricultural Sciences and Natural Resources (CASNR) offers the following distance education courses and degree programs: master of applied science, master of applied science with focus in community development, master of business administration with a specialization in agribusiness, and master of science in entomology. A graduate certificate in food safety and defense is also available.

Graduate programs leading to the masters of science degree and/or doctor of philosophy degree are offered through the Departments of Agricultural Economics; Agricultural Leadership, Education and Communication; Agronomy and Horticulture; Animal Science; Biochemistry; Biological Systems Engineering; Entomology; Food Science and Technology; Statistics; Veterinary and Biomedical Sciences; the School of Natural Resources; and in numerous programs and areas of specialization such as Plant Pathology.

College of Architecture

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About the College

The College of Architecture is the visible manifestation of an architectural tradition that has served Nebraska for a hundred years. From the first identified architectural program in 1894 to the establishment of the Department of Architecture in 1930, to the creation of the School of Architecture in 1964, to the founding of the School of Environmental Development in 1970, to the formation of the College of Architecture in 1974, and to the establishment of the Professional Program in Architecture in 1994, the College's programs in architecture, interior design, and community planning, have a proud tradition of excellence in education, research, and service to the State of Nebraska.

Architecture Hall, the symbolic and sentimental home of architecture at the University of Nebraska-Lincoln, stands as a monument not only to an historic style of

architecture, but also to the progress of a University and the thousands of students who ascended the famous wooden staircase to design studios. A student of 1894 would feel at home today in Architecture Hall, its exterior facade and basic layout little changed from its earliest days as a proud new library building. Only the nature of the architectural programs has changed with time. There has been a long, steady progression towards excellence in architectural education and development of programs appropriate to the needs of society.

Today, the College of Architecture is a busy and exciting place. Some 600 students are enrolled in classes, learning with a faculty of 30 to explore the past, present, and future of our communities. From gallery displays and provocative seminars, to the quiet of the Architecture Library, the bustle of the design studio, and the excitement of a community town hall meeting, the College of Architecture is at work. It is the epitome of our land-grant university commitment to education, research, and service in the State of Nebraska and the Great Plains Region.

Nebraska has only one College of Architecture. Its services are unique to this state and to several other states in this region that lack adequate courses of study and services. Lewis Mumford once noted that the quality of a society is marked by the nature of its cities. Nebraska is proud of its "good life" and a great measure of that goodness is reflected in its architecture. A quick look at the documents and pamphlets used to describe this state, and at the photographs visitors take away, reveal content richly endowed in pleasing architecture, efficient community design, and attractive park systems.

The College of Architecture, through its programs in architecture planning, landscape architecture, and interior design offers a broad educational research base for the study of the directions of a changing world. Even though the architecture and related programs address the classical heritage of our culture, they must also deal with the problem of tomorrow as it begins to emerge. Students and faculty of the College of Architecture seek the best of the past to carry through today into the uncertainty of tomorrow. This is the challenge for education.

Architects, planners, landscape architects and interior designers are professionals with responsibilities to help communities anticipate and deal with change, thus ensuring that desirable change is achieved. Students today strive to identify and design preferred futures, rather than react to probable events. Education at the College of Architecture is characterized by a quest for the means of improving the quality of life for all people on "the spaceship earth" but especially for the residents of the Great Plains of the United States.

Students pursue studies on an interdisciplinary basis through the professional staff within the College and also through organized, coordinated study programs involving professional, scientific, and academic staff from many departments within the University.

Interdisciplinary research and community service are important in the College of Architecture. Emphasis is placed on the generation of new knowledge and the application of concepts and quantitative methods from the behavioral and social sciences to the current practical problems of communities and the environment. Funded projects sponsored by local, state, and federal governments, as well as segments of the design and construction industries, provide students, especially in the advanced professional programs, with opportunities for practical laboratory experiences. The same community design planning and research projects provide faculty members with opportunities for continuing professional development.

The College is co-participant in the administration of the nationally recognized Nebraska Community Improvement Program (NCIP). The NCIP is a community recognition program involving some 200 Nebraska communities and neighborhoods a year. The College provides educational programs, technical assistance, and assists communities in identifying their needs, developing strategies, and carrying out community economic development. Through this program, University faculty have had opportunities to work with hundreds of Nebraska communities in assisting them in solving problems.

The College of Architecture is a member of the Architectural Research Centers Consortium. The Consortium seeks to strengthen the contributions of architecture to the solution of critical national problems by undertaking large-scale research projects. Established by the American Institute of Architects Research Corporation and leading university-based research centers, the Architectural Research Centers Consortium provides a significant research dimension to the College of Architecture.

The College of Architecture is also a co-participant in the Associated Design Professions, working with the American Institute of Architects, American Planning Association, American Institute of Certified Planners, American Society of Interior Designers, American Society of Landscape Architects and International Institute Interior Designer Association to bring continuing professional education programs to the Midwest region.

The College of Architecture's interdependent programs of education, research, and public service are intensive, relevant, dynamic, and rewarding. The College is dedicated to the continued development and improvement of programs that enhance the ability of the architect and the planner to create a better world environment.

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Facilities

The College is headquartered in Architecture Hall. All facilities of this unique and historic complex are located within the southwestern "fine arts" quadrant of the campus, with convenient access to the Lincoln central business district for both pedestrian and vehicular traffic. College lecture classrooms; design and planning studios; computer, media, and shop facilities; the professional library; exhibit spaces; and other ancillary facilities are arranged and equipped for student convenience. This 91,000-square-foot complex provides students and faculty with one of the finest facilities in the nation for the study of architecture and planning.

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Architecture Library.

Located in Architecture Hall and operated as a branch facility of the University Libraries, the Architecture Library maintains collections pertinent to the fields of architecture, planning, urban design, interior design, landscape architecture, community development, and building technology. In addition to a collection of approximately 45,000 volumes, the library receives 310 national and international magazines and journals in its subject areas. Available construction documents, indexes, and other materials provide technical reference resources to both the student and the practicing professional.

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Computer Facility.

The computer facility in the College of Architecture is used by students and faculty for educational, research, and public service activities. The facility includes graphics and printer terminals, as well as a number of microcomputers. Several makes of microcomputers are linked to digitizers, graphics tablets, and plotters for use in computer-aided design work, as well as production of maps and charts. Extensive software is available for student and faculty use. The terminals are linked into the University Computing Resource Center for expanded mainframe capabilities. Micromodems are used to link the College of Architecture computer systems to external sources of data and computing programs. The College also has several computer-aided design systems, as well as a digital design laboratory featuring Computer Numeric Control (CNC), a laser cutter and 3D printing. The College of Architecture offers a number of courses in computer applications for design and planning.

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Architecture Gallery.

A vital part of architecture is communication to the public. An architectural educational institution is in an excellent position to communicate (through exhibits and shows) the purpose and services of the environmental design professions. To this end seminars and displays of general interest to the public are featured in the gallery area of Architecture Hall. The gallery also provides a space for formal and informal student, faculty, and public programs.

Hyde Program of Visiting Professionals.

This memorial program was established in 1979 in grateful recognition of Mr. A. Leicester Hyde, AIA, 1902–1976. He graduated from the University of Nebraska in architectural engineering in 1925 and Columbia University in 1928. From 1960 to 1972 he was president and chairman of the board of Midwest Life Nebraska. Mr. Hyde served as a charter member of the College's professional advisory council.

This annual program brings architecture and planning students into direct contact with nationally and internationally known professionals who are acknowledged to be at the leading edge of their fields. Visitors and guest critics coming to campus are involved in public presentations and work with the students and faculty of the College in the classroom and studio. The program also provides advanced students with the opportunity to engage in intensive off-campus design charrettes within the offices of leading professional firms.

Hyde Chair of Excellence.

Established in 1986, the Hyde Chair of Excellence allows the College of Architecture to attract visiting faculty of national and international distinction. Through this endowment, renowned scholars and practitioners will be invited to spend a semester or more in residence at the College, working with and teaching architecture and planning students in studios, in seminars, and in an informal mentor role as well.

The Hyde Chair of Excellence was made possible by the generosity of Mrs. Flora Hyde in honor of the memory of her late husband, A. Leicester Hyde. Recipients have included Joseph Esherick, Peter Cook, Christine Hawley, Wolf Prix, Ralph Rapson, Tobias Faber, David Lewis, Tsukasa Yamashita, Ken DeMay, Larry Young, Tom Wang, Charles Redmon, Terry Rankine, David Gosling, Michael Sorkin, Philip Thiel, Anthony Ames, Jeffrey Day, Diene Lewis, Jullien Border, Martin Hougue, Johan Granberg, Paul Preissner, and Doug Jackson.

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College of Arts and Sciences

The College of Arts and Sciences offers graduate degrees in natural and physical sciences, social sciences, and the humanities. Every department has a Chair of the Graduate Committee (Graduate Adviser) who will assist students interested in pursuing graduate study in that department. Students should consult the individual department's listing in the Graduate Studies Bulletin for the name of the Chair and members of the Graduate Committee. Students should check specific departmental guidelines concerning options offered for each degree. Criteria for admission (i.e. Graduate Record Examination) are variable and are described in the specific departmental sections of this Bulletin.

Natural and Physical Sciences

The School of Biological Sciences offers the MS and PhD degrees through two major divisions: I. The Section of Ecology and Organismal Biology; and II. The Section of Genetics, Cellular and Molecular Biology. Affiliated faculty from the departments of Agronomy, Biochemistry, Chemistry, Plant Pathology, and Psychology; the School of Natural Resources Sciences; and the State Museum are actively involved in the graduate program. Students have opportunities to develop course work and diverse research interactions through graduate research emphasis groups.

The Department of Chemistry offers the MS and PhD degrees in all of the traditional areas of chemistry (analytical, bio-, inorganic, organic, and physical) as well as in a number of more specialized and/or interdisciplinary areas, including: catalysis, materials chemistry, nanoscience, structural biology, molecular recognition, surface science, materials, polymers, solid state, organometallics, mechanism-based enzyme inhibition, natural products synthesis, biophysical, bioanalytical, environmental science, clinical chemistry, mass spectrometry, and molecular biology. A high priority is placed on treating each student as an individual while providing an environment for maximum professional development.

The Department of Computer Science and Engineering offers the MS and PhD degrees. Computer engineering is available as a specialization under the MS program and as a doctor of philosophy program under the unified engineering PhD program. The computer science MS and PhD programs provide an optional bioinformatics specialization. A cooperative PhD program is also offered with the Department of Mathematics.

The Department of Geosciences offers the MS and PhD degrees in many sub-disciplines of the earth and atmospheric sciences, but with emphasis in meteorology/climatology, hydrological science, sedimentary geology, Quaternary geology, paleoclimatology, geochemistry, geomorphology, structural geology, micropaleontology and vertebrate paleontology. The department houses the ANDRILL (Antarctic Drilling) management office and actively cooperates with the State Museum and the School of Natural Resources, the latter of which includes the State Geological Survey and the UNL Water Center.

The Department of Mathematics offers the MA, MS, MAT, and PhD, and has nationally recognized faculty in algebra, analysis, coding theory, discrete mathematics, differential equations, applied mathematics, and mathematical biology. The department prides itself in teaching, mentoring, and training its graduate students and placing them in the positions they desire. In this regard, the department has been especially successful with women students, receiving the Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring in recognition of its accomplishments.

The Department of Physics and Astronomy offers the MS and PhD degrees in physics, with strong programs in atomic, molecular, optical and plasma physics (experiment and theory), in condensed matter/materials physics (experiment and theory, emphasis on nanoscale materials), and in high energy physics (experiment). Among unique facilities, the department hosts several central facilities of the Nebraska Center for Materials and Nanoscience, the new Diocles Extreme Light Laboratory, and is allied with the Research Computing Facility which jointly operates the most powerful computer in the state for physics simulations and data analysis (the CMS Tier-2 Facility). Students in atomic, molecular, optical and plasma physics work in strong-field physics, quantum optics, laser-plasma physics and relativistic optics, optical vortices, quantum information, photoionization processes, and polarized electron phenomena, with some research being carried out at the Advanced Light Source. Students in condensed matter/materials physics fabricate and study novel nanoscale materials and structures, including surface phase transitions, electronic and magnetic structures, "smart" materials, materials for information storage, and multiferroics, using state-of-the-art in-house apparatus and at national facilities such as the Advanced Photon Source and the Center for Advanced Micro Devices. Students in experimental high-energy physics carry out their research on fundamental particles and interactions at Fermilab (Dzero experiment), at CERN's Large Hadron Collider (CMS experiment), with opportunities in particle astrophysics (Pierre Auger Observatory) and non-accelerator physics (Deep Underground Science and Engineering Laboratory).

The Department of Statistics offers the MS and PhD degrees in statistics. The department has dedicated itself to "turning data into knowledge to solve real world problems." It has a long history of collaboration with other disciplines throughout the university, developing statistical theory and methods that advance statistics while also enabling progress in allied fields as well. Graduate students are intimately involved in these collaborations, allowing them to receive practical experience in addition to theoretical training. Students can tailor their program to their interests and position themselves to take advantage of statistics' many and varied career opportunities. The department values excellence in teaching, with nationally recognized faculty in design of experiments, survey statistics, generalized mixed linear and nonlinear models, categorical data, decision analysis, spatial statistics, and statistical genomics. Sports statistics and bioinformatics are emerging sub-disciplines.

Social Sciences

The Department of Anthropology offers the MA in anthropology, which offers a science-based course of study, emphasizing preparation for a career in anthropology or for entrance into a doctoral program. Anthropology programs feature Plains archaeology and ethnology, historic and cultural resource management archaeology, applied and development anthropology, and behavioral, ecological and evolutionary approaches to human behavior.

The Department of Communication Studies offers the MA and the PhD degrees in four areas of concentration: instructional communication, interpersonal and family communication, organizational communication, and rhetoric and culture. The department also offers an interdisciplinary MA specialization in marketing, communication studies and advertising.

The department's graduate degree programs are designed to provide an advanced understanding of the scholarly traditions in communication studies; to train students in both social-scientific and humanistic research approaches in order to create proficiency in historical/critical, quantitative, and interpretive/qualitative methods; to develop competent investigators capable of producing communication scholarship of the highest quality; and to foster the creation of teacher-scholars and practitioner-researchers who respect the discipline's pluralism and follow the highest standards of ethical conduct.

The Department of Geography offers the MA and PhD degrees which emphasize environmental geography, geographic information analysis (GIS, remote sensing, cartography), historical-cultural geography, regional geography, person-environment behavior and relations, and a doctoral specialization in community and regional planning. The Department sponsors internships, and offers teaching and research assistantships.

The Department of Political Science offers the MA and PhD in the following areas of concentration: American politics, comparative politics, international relations, public administration, and public policy. The department also offers a graduate certificate program in public policy analysis, and a joint MA/JD program in cooperation with the College of Law.

The Department of Psychology offers PhD work in biopsychology, clinical psychology, cognitive psychology, developmental psychology, law-psychology, and social/personality psychology. Well-qualified students, whose goal is the PhD, are recruited; students desiring only an MA are not accepted.

The Department of Sociology offers the MA and PhD. The Department provides training in pure and applied research. At the MA level, students study methods and theory and pursue a broad course of study before writing a thesis. Doctoral candidates develop two specialities, choosing from approximately twenty substantive areas. The department offers especially strong programs in family, health, mental health, substance use, and social inequality (race, class and gender).

Humanities

The Department of Classics and Religious Studies offers the MA degree with concentration in either Greek or Latin. An undergraduate major in Greek or Latin is normally required. While currently admitted students may complete their programs, the department is not accepting new applications at this time.

The Department of English offers the MA and PhD in the major areas of British and American literatures, especially Medieval and Renaissance; 19th century; Great Plains; multicultural and women's literature; and creative writing, composition, and rhetoric.

The Department of History prepares students for careers in research and teaching through its MA and PhD degrees. Every effort is made to provide the creative environment to sustain a community of scholars. Carefully structured and individualized graduate programs afford maximum personal contact and consultation between graduate students and professors in seminars, directed individual readings, lecture courses, and supervised thesis research and writing.

The Department of Modern Languages and Literatures offers the MA and PhD degrees in French, German, and Spanish. Programs consist of advanced work in the student's primary language, courses in literature, criticism and linguistics, interdisciplinary work in other fields or languages, and independent study and research.

The Department of Philosophy offers the MA and PhD degrees with a primarily analytic orientation, providing the opportunity to pursue advanced research in all the major areas of philosophy, including the history of philosophy.

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College of Business Administration

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About the College

The College of Business Administration is developing the next generation of ethical global business leaders and stands on Four Pillars of Excellence: Ethics, Leadership, Entrepreneurship and International Experience.

The College of Business Administration developed from a single course in political economy required of every student at the University of Nebraska in 1869. The College of Business Administration is now the second largest college on the University of Nebraska-Lincoln campus with approximately 3,300 undergraduate and graduate students attending classes with 64 full-time faculty members. The five departments offer masters and doctoral degree specializations in accounting, economics, finance, management and marketing as well as nine undergraduate majors.

The College of Business Administration building offers state-of-the-art technology in every classroom. Computer labs are fully equipped and designed for interactive, multifunctional uses. A complete wireless system and walk-up e-mail stations are available for students, faculty and staff.

The College retains close ties with professional and business leaders. Executives from all around the world come into the classrooms to speak to students and student organizations. Companies visit the college regularly to meet with faculty, attend job fairs, and forge closer ties with the College. Many student organizations are closely affiliated with professional and business organizations in the community.

All tenured faculty members are terminally degreed. Many are the national and international leading experts in their fields of study, producing widely used textbooks and cited research. Many are editors of leading academic journals. Our faculty is often selected to advise businesses and governments on critical issues.

History of the College

Students have been taking business courses at the University of Nebraska-Lincoln for more than a century. The School of Commerce was created in 1913. In 1916, the School of Commerce, with sixteen other universities including Harvard, Northwestern, and the University of Texas, was a charter member of the Association to

Advance Collegiate Schools of Business (AACSB). The College of Business Administration was chartered in 1919.

Enrollment in the College of Business Administration has grown significantly in recent years due to its commitment to excellence, as exemplified by internationally known faculty, and its innovative centers and institutes:

- The Bureau of Business Research
- The Nebraska Council on Economic Education and the National Center for Research in Economic Education
- Global Leadership Institute
- Raikes School of Computer Science and Management
- The Nebraska Center for Entrepreneurship

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Degree Programs and Objectives

The mission of the College of Business Administration is to foster intellectual curiosity, business insight and effective leadership by providing high quality instruction, research and service to our students, the citizens of Nebraska, and to the national and international communities we serve.

The overall objective of graduate programs is to prepare students to excel as researchers, teachers and professionals. The MBA program equips future business leaders with the qualitative and quantitative skills required to succeed in the business world of today and tomorrow.

Masters students within the College are preparing for professional careers in accounting, economics, finance, management, marketing, or a combination of these. Local, state, national and international organizations seek out graduates with expertise in these areas from the College.

Doctoral students prepare for academic teaching and research positions as well as specialized careers in profit, regulatory, and nonprofit businesses. In addition to receiving teaching and research training, doctoral students have the opportunity to teach undergraduate classes.

The MBA program is offered on campus in a traditional classroom setting. For students unable to come to campus the program is offered online with the same curriculum and professors. MBA specializations may be available to interested students. Please see an MBA advisor to discuss available specialization options. Dual degrees are offered in partnership with the College of Law and the College of Architecture.

Faculty members advance their disciplines as they conduct research and publish in professional journals. During the five-year period reviewed during the College's last accreditation, the College of Business Administration faculty researched, wrote, and published over 500 peer reviewed journal articles and produced over 1,300 other intellectual contributions such as book chapters and conference presentations.

The College fulfills its public service objective through its faculty and its Bureau for Business Research, Center for Entrepreneurship, Center for Economic Education, and the Nebraska Council on Economic Education. Through these entities we serve the citizens of Nebraska, the nation, and international business communities.

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Accreditation

Baccalaureate, masters, and doctoral degree programs in business are fully accredited by The Association to Advance Collegiate Schools of Business (AACSB). The School of Accountancy is separately accredited by AACSB.

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College of Education and Human Sciences

The College of Education and Human Sciences (CEHS) is dedicated to enhancing individuals, families, schools and communities and strengthening the relationships among them. The seven CEHS departments include Child, Youth and Family Studies; Educational Administration; Educational Psychology; Nutrition and Health Sciences; Special Education and Communication Disorders; Teaching, Learning and Teacher Education; and Textiles, Clothing and Design.

In addition, CEHS is home to a variety of research and outreach centers and institutes, including the Barkley Memorial Center Speech-Language and Hearing Clinic; the Buros Center for Testing; the Counseling and School Psychology Clinic; the Center for At-Risk Children Services; the Center for Instructional Innovation; the Family Resource Center; the Great Plains Institute for Reading and Writing; the International Quilt Studies Center; the National Center for Information Technology in Education; the Nebraska Career Information System; the Nebraska Evaluation and Research Center; the Nebraska Human Resources Institute; the Nebraska Research Alliance on Children, Youth, Families and Schools; the Robert Hillestad Textile Gallery; and the Ruth Staples Child Development Laboratory.

CEHS offers four masters degrees in nine majors, the education specialist degree in three majors, two doctoral degrees in 16 specializations under three majors, and one professional degree. CEHS also offers graduate, non-degree programs leading to certification in areas such as teaching, curriculum leadership and school administration.

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Masters and Specialist Programs

CEHS offers four masters degrees in nine majors and the education specialist degree in three majors. For information on masters and specialist degree programs, consult the relevant department's listing in this bulletin.

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Doctoral Programs

CEHS offers the AuD, a professional degree, and two doctoral degrees, both the EdD and the PhD, under three majors: Educational Studies, Human Sciences, and Psychological Studies in Education. In addition, CEHS participates in two additional doctoral majors, the inter-institutional educational administration doctoral major and the inter-departmental nutrition doctoral major.

The Educational Studies major includes six specializations. Instructional Technology; Internet-based Education; and Teaching, Curriculum and Learning are hosted by the Department of Teaching, Learning and Teacher Education. Special Education and Audiology and Hearing Science (AuD) are sponsored by the Department of Special Education and Communication Disorders. The Department of Educational Administration hosts Educational Leadership and Higher Education and co-hosts, with Architecture, Architecture Education.

The Human Sciences major includes six specializations. Communication disorders is housed in the Department of Special Education and Communication Disorders; Child, Youth and Family Studies and Gerontology are sponsored by the Department of Child, Youth and Family Studies; Nutrition and Health Sciences is hosted by the Department of Nutrition and Health Sciences; Textiles, Merchandising, and Fashion Design is based in the Department of Textiles, Merchandising and Fashion Design; and Leadership Studies is housed in the Department of Agricultural Leadership, Education and Communication.

The Psychological Studies In Education major includes four specializations, all hosted by the Department of Educational Psychology: Cognition, Learning and

Development; Counseling Psychology; Qualitative and Quantitative Psychometric Methods in Education; and School Psychology.

In addition, the Department of Educational Administration--in cooperation with UNO's Department of Educational Administration--offers a major in Educational Administration, and the Department of Nutrition and Health Sciences participates in the Interdepartmental Nutrition major.

Specific program and application information is available under each department's listing in this bulletin. Up-to-date information is also available on the Web at cehs.unl.edu.

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College of Engineering

Teaching, research, and service are vital parts of graduate studies in the College of Engineering. Applied and basic research projects fulfill educational roles in teaching students and showing them how to perform independent studies. They also encourage faculty and students to pursue scholarly achievements in searching for new knowledge and in solving engineering problems.

College of Engineering faculty have degrees from a wide variety of locations, including nearly every major research university in the US and Canada. Nearly 100 percent of engineering faculty have PhD's and are engaged in active research and graduate instruction.

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Programs of Study

The College of Engineering administers programs on both the Lincoln and Omaha campuses. The College offers undergraduate and graduate programs in engineering, construction management and engineering technology. Approximately 1,600 undergraduates study engineering or construction management on the Lincoln campus and another 900 students study engineering and technology on the Omaha campus. The College's programs provide students with solid foundations necessary for challenging and rewarding careers in a society experiencing dramatic technological change.

Approximately 600 graduate students are pursuing MS or PhD degrees in engineering. The majority of these students study on the Lincoln campus. The teaching and research assistantship stipends for these students range from about \$9,000 to \$16,000 per year depending on the field and duties. Tuition remission is available in many of these cases. Graduate students in engineering have also been notably successful in obtaining fellowships available at the University, corporate, and national levels. Among these are NSF, DOE, and USDA fellowships.

MEng, MAE, MS and PhD degrees in engineering are granted by the Graduate College. The Master of Engineering degree program offers a choice of three areas of concentration: engineering management, software engineering, or telecommunications engineering. The Master of Architectural Engineering (MAE) is offered in Architectural Engineering. Master of science programs are available in agricultural and biological systems, architectural engineering, chemical, civil, computer, electrical, engineering mechanics, manufacturing, and mechanical engineering. Eleven doctoral fields are available: agricultural and biological systems engineering; architectural engineering; biomedical engineering; chemical and biomolecular engineering; civil engineering; computer engineering; construction, electrical engineering; engineering mechanics; and manufacturing engineering; materials engineering; and mechanical engineering. Masters and doctoral programs are arranged through faculty in the various departments and research centers.

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Facilities

The College of Engineering maintains spacious, modern laboratories for research and teaching in all the fields and academic disciplines listed above. Technician-staffed machine shops, including foundry and carpentry facilities, and a technician-staffed electronics shop repair, maintain, and develop the necessary instrumentation for the research and teaching activities of the College. In addition to the College's shops and laboratories, the Department of Biological Systems Engineering operates extensive laboratory and field research facilities across the State.

Extensive computational facilities include a wide variety of networked microcomputers, minicomputers, and superminicomputers with access to central mainframes and MIDnet, which ties to NSFnet, a supercomputer network. Graduate students have access to many workshops and academic courses in computational methods through the Academic Computing Resource Center and the academic departments.

The Engineering Library is a Government Printing Office and Patent depository. Its holdings include over 380,000 books, 1,000 journals, and 370,000 microfiche items. It contains the major archival journals, references, and texts of the various fields. The Engineering and other University libraries also provide computer literature searching and participate in an interlibrary loan system for rapid access to references not available locally.

The Walter Scott Engineering Complex houses modern research and teaching laboratories for civil, electrical, industrial, and mechanical engineering, along with those of engineering mechanics. The Walter Scott complex is the principal site of the annual Engineering Week Open House in which student and faculty projects are displayed to the public. In addition, the College has laboratory and classroom facilities in L.W. Chase Hall, Nebraska Hall, Othmer Hall and the Peter Kiewit Institute building in Omaha.

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Other Center Involvement

College of Engineering faculty and graduate students are also intimately involved in research activities of several university-wide centers. These include the Water Center, the Center for Biotechnology, the Industrial Agricultural Products Center, and the Food Processing Center. These are described in other parts of this Bulletin. These Centers and the Engineering Research Centers, in conjunction with the interdisciplinary approach to graduate studies, offers students at UNL unique opportunities to develop exceptionally strong graduate programs geared toward societies increasingly complex social and technical problems.

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Hixson-Lied College of Fine and Performing Arts

The Hixson-Lied College of Fine and Performing Arts was established in 1993 to provide a greater focus on the arts at UNL. The College is comprised of the Department of Art and Art History, the School of Music, the Johnny Carson School of Theatre and Film, and the Mary Riepma Ross Media Arts Center. In addition, the Great Plains Art Collection, the Lentz Center for Asian Culture, the Lied Center for Performing Arts, and the Sheldon Memorial Art Gallery and Sculpture Gardens are affiliated with the College.

The College is committed to facilitating the interaction between the many arts entities on campus, to providing students with a high quality education and many opportunities to participate in cultural activities, and to nurturing scholarly research and creative productivity in the arts.

The Hixson-Lied College of Fine and Performing Arts offers graduate degrees in each of the three departments.

The Department of Art and Art History is an accredited institutional member of the National Association of Schools of Art and Design and offers a 60-credit hour

MFA program in ceramics, drawing, painting, photography, printmaking, sculpture, textile arts, graphic design, or a combination of these. Individual studio spaces are provided. The department also offers an MA in Art History which requires a minimum of 36 hours of advanced study. The structure and sequence of the major allows individual flexibility.

The School of Music is an accredited institutional member of the National Association of Schools of Music and offers the MM, DMA and PhD degrees. Majors at the masters level include composition, conducting, jazz studies, music education, music history, music theory and performance. The DMA degree is offered in performance, conducting, composition and jazz studies. The PhD degree is offered in music with an emphasis in music education. An audition is required for admission.

The Johnny Carson School of Theatre and Film is an accredited member of the National Association of Schools of Theatre and offers the MFA degree, a 3-year program in acting, directing, and design/technology.

Additional information about each degree, including criteria for admission and specific departmental guidelines concerning degree options, is provided in the individual departmental sections of this Bulletin. Students should also consult the Chair of the Graduate Committee in the individual department or school who can provide more detailed and specific information regarding particular degree requirements.

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College of Journalism and Mass Communications

Since it began in 1975, demand for the program leading to the degree of Master of Arts in journalism and mass communications has increased at a steady pace. Initially the graduate faculty expected to have 12 to 15 students, but that estimate proved to be far too conservative. Now more than 90 students are actively pursuing the degree, many of whom are taking courses while continuing to work professionally. Most have approximately eight years of professional experience and usually are in their late 20s or early 30s.

This steady growth parallels what is usually referred to as an "information revolution." Mass communications has been an area of rapid expansion and change during the past 30 years. Increased affluence, leisure, and education for most of this country's population have resulted in increasingly demanding, increasingly sophisticated audiences who want to be entertained and informed through mass media. Rapidly developing technologies have provided a variety of means. Journalists have been challenged to interpret a fast-changing world—to help audiences understand and shape their environments.

In light of all this, the graduate faculty in journalism is committed to offering a quality program combining professional practice in the media with study of professional responsibilities, mass audiences, and their significance. Enrollment in courses in other disciplines is encouraged to further prepare the student to translate more effectively to mass audiences complexities of a rapidly changing society. Building on the foundation of a student's professional undergraduate education in journalism, this broad understanding of the profession is to be developed through study in the liberal arts and sciences, in communication theory, in professional courses, and by development of competency in research as consumer, interpreter, and initiator.

The curriculum is consistent with this integration of substantial professional and academic credentials. Flexibility within the three areas of the program (news-editorial, advertising, and broadcasting) is provided to encourage differing student goals. The prediction is that a shortage of qualified journalists will continue and the demand for persons with graduate degrees will continue to escalate in the mass media industry, in business, and in academia.

Over the years, doctoral students from communication studies, marketing, sociology, as well as education and human sciences, have taken journalism courses as a supporting minor.

The Master of Arts in journalism and mass communications program was first nationally accredited in 1979 when it became the second such program in the country to receive that designation. The following year it received commendation from the North Central Accrediting Council visiting team for the UNL campus.

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College of Law

The College of Law at the University of Nebraska-Lincoln offers a program of legal education designed to prepare its students to meet the diverse and complex challenges they will confront during their professional careers. In the relatively intimate environment of a small law school, students prepare themselves for the practice of law or other professional careers. The experiences of College of Law alumni illustrate the range of opportunities available and the strength of the educational programs of the College.

The College of Law was formed in 1888 and became a part of the University of Nebraska in 1891. It was among the first schools fully accredited by the American Bar Association and was a charter member of the Association of American Law Schools. One of its early deans, native Nebraskan Roscoe Pound, subsequently served as Dean of the Harvard Law School and earned a reputation as one of the foremost legal scholars and educators in legal education.

From Dean Pound's tenure to the present, the College of Law has been the professional home of an energetic and nationally recognized faculty. The current professors are strongly committed to both good teaching and active scholarship. Not only do students have the opportunity to take classes from experts who are exploring the frontiers of their specialties, but in the informal atmosphere of the College, students have easy access to faculty members outside of the classroom.

The College is committed to an educational program designed to permit students to pursue their individual interests within the context of a sound foundation in law and legal process. Most graduates of the College engage in some aspect of the legal profession. This requires not only a grounding in substantive and procedural law, but also the capacity for intellectual rigor and analysis and a background in human affairs upon which to draw in making professional judgments. The curriculum at the College is designed to provide the student with an opportunity to acquire professional knowledge and skill.

A number of graduates from major law schools, including Nebraska, do not ultimately enter the private practice of law, but engage in careers for which their legal education provides a significant advantage, such as business administration, journalism, and government service. The College offers a flexible curriculum in order to accommodate the widely differing goals of its student body. Few courses are required after the first-year program. Students are permitted to take some graduate-level courses in other disciplines within the University for law school credit. In addition to a number of joint degree programs with other colleges at the University, the College of Law is willing to structure joint degree programs on an individual basis for students interested in pursuing interdisciplinary work.

Located on the University's East Campus, the College of Law offers the best in modern facilities, including an appellate courtroom, offices for student activities, an extensive library and student lounges.

The Sherman S. Welpton Jr. Courtroom contains a fully equipped trial courtroom complete with a jury room, conference room, judge's chambers, and a law office classroom, as well as the College's clinical education program. This facility enables the College of Law to continue its tradition of offering the finest in practical skills training.

The student body, composed of approximately 400 students, includes graduates of over 100 colleges and universities. Our students are ambitious, diligent, and able individuals with diverse interests and talents. Women now constitute approximately 50 percent of the total student body and minority students about 15 percent.

The success of any program of legal education is measured in the accomplishments of its alumni. Throughout the history of the College, its graduates have made their mark in many different fields throughout the United States. More than 60 percent of the lawyers and judges practicing in Nebraska are alumni of the College; outside of the Omaha metropolitan area the figure is 80 percent. Nebraska alumni can be found in sophisticated major law firms and smaller, more specialized

firms in almost every large metropolitan area in the country from Wall Street to Los Angeles, and from Minneapolis to Dallas. Illustratively, Nebraska alumni have served as Chief Justice of the Nebraska Supreme Court and Court of Appeals, as Governor of Nebraska and Wyoming, as Attorney General of Nebraska and California, as Solicitor General of the United States, as federal and state judge at the District and Courts of Appeals levels, in the Senate and House of Representatives, as chair of federal administrative agencies, and as Special Assistant to the President of the United States.

The College continues to build on this tradition of excellence and is recognized as one of the major law schools in the midwest.

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Schmid Law Library

The Marvin and Virginia Schmid Law Library provides an excellent atmosphere for study and research. The library is the largest law library in the State. Within the Library is the Great Plains Tax Library, which contains the materials necessary for in-depth tax research. The Library is also a selected depository for United States government publications. Equipment and facilities are available for using microforms, audio and video materials, CD-ROM network, the Internet, and the LEXIS and WESTLAW computerized research systems. Law students have access to personal computers and printers in the computer laboratory.

The Schmid Law Library and the University Libraries share an online catalog named IRIS. IRIS contains bibliographic records for most catalogued materials located in the libraries. Library users can look up this information using computer terminals instead of using the traditional card catalog.

The Library is independent in administration and organization from the other libraries on campus, but its resources are supplemented through interlibrary loans and other cooperative programs with the University of Nebraska Libraries and the major public, academic, and legal collections in the country.

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Admission to the College of Law

Because the number of applications far exceeds the number of places in each year's entering class, the College can accept only a fraction of those who apply.

In making its decisions, the Committee seeks to identify those individuals who have the ability to compete successfully in a rigorous academic environment.

The major factors that the Admissions Committee considers are the applicant's score on the Law School Admission Test (LSAT) and the applicant's undergraduate grade point average. But that is not to say that admission decisions are simply a function of the numbers.

The Committee also takes into account any upward (or downward) trend in the applicant's academic performance over time and considers the quality of the applicant's undergraduate institution, course of study, personal statement, work experiences, graduate study, extracurricular activities, letters of recommendation, and any other information supplied by the applicant.

Although a majority of the students at the College of Law are residents of Nebraska, the College welcomes applications from students who are not residents of Nebraska. The College takes special care in evaluating applications from members of minority groups that historically have not been well-represented in the legal profession. The College also hosts a summer Pre-Law Institute for promising undergraduates who, if they choose law, would diversify the profession.

With the exception of those who are applying for admission pursuant to the Combined 3-3 Program, applicants ordinarily must have a bachelor's degree or must have completed all requirements for a bachelor's degree before they begin their first year of study at the College of Law. For further information on the application process, please contact the College of Law Admission Office.

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Actuarial Science

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Courses for ACTS (ACTS)

ACTS

410/810

Introduction to Credibility, Smoothing of Data, and Simulation [LINK \(http://bulletin.unl.edu/courses/ACTS/410\)](http://bulletin.unl.edu/courses/ACTS/410)

Prereqs:

[STAT 463 \(http://bulletin.unl.edu/courses/STAT/463\)](http://bulletin.unl.edu/courses/STAT/463).

Full, partial, Buhlmann, and Buhlmann-Straub credibility models. Introduction to empirical Bayes and statistical distributions used to model loss experience. Application of "polynomial splines" to actuarial data. Simulation of "discrete" and "continuous random" variables in context of actuarial models. Simulation to "p-value" of hypothesis test. "Bootstrap method" of estimating the "mean squared error" of an estimator.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

ACTS

425/825

Survival Models [LINK \(http://bulletin.unl.edu/courses/ACTS/425\)](http://bulletin.unl.edu/courses/ACTS/425)

Prereqs:

[STAT 463 \(http://bulletin.unl.edu/courses/STAT/463\)](http://bulletin.unl.edu/courses/STAT/463) with a grade of "C" or better.

Parametric and tabular survival models. Estimation based on observations that might not be complete. Concomitant variables. Use of population data. Applications to groups with impaired lives.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ACTS

Actuarial Applications of Applied Statistics [LINK \(http://bulletin.unl.edu/courses/ACTS/430\)](http://bulletin.unl.edu/courses/ACTS/430)

430/830

Prereqs:
STAT 463 (<http://bulletin.unl.edu/courses/STAT/463>) with a grade of "C" or better.

Data sets processed and analyzed using statistical software.

Introduction to forecasting in actuarial science. Simple and multiple regression, instrumental variables, time series methods, and applications of methods in forecasting actuarial variables. Interest rates, inflation rates, and claim frequencies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ACTS

Financial Mathematics

[LINK \(http://bulletin.unl.edu/courses/ACTS/440\)](http://bulletin.unl.edu/courses/ACTS/440)

440/840

Prereqs:
MATH 208 (<http://bulletin.unl.edu/courses/MATH/208>)/208H (<http://bulletin.unl.edu/courses/MATH/208H>) with a grade of "Pass" or "C" or better, or parallel.

This course is a prerequisite for: [FINA 412 \(http://bulletin.unl.edu/courses/FINA/412\)](http://bulletin.unl.edu/courses/FINA/412); [FINA 467 \(http://bulletin.unl.edu/courses/FINA/467\)](http://bulletin.unl.edu/courses/FINA/467); [ACTS 470 \(http://bulletin.unl.edu/courses/ACTS/470\)](http://bulletin.unl.edu/courses/ACTS/470)

Application of financial mathematics to problems involving valuation of financial transactions; equivalent measures of interest; rate of return on a fund; discounting or accumulating a sequence of payments with interest; and yield rates, length of investment, amounts of investment contributions or amounts of investment returns for various types of financial transactions; loans and bonds. Introduction to the mathematics of modern financial analysis. Calculations involving yield curves, spot rates, forward rates, duration, convexity, and immunization and short sales; introduction to financial derivatives (forwards, options, futures, swaps) and their use in risk management; and introduction to the concept of no-arbitrage as a fundamental concept in financial mathematics.

Credit Hours:	4
Course Format:	Lecture 6
Course Delivery:	Classroom

ACTS

Principles of Pension Valuation

[LINK \(http://bulletin.unl.edu/courses/ACTS/442\)](http://bulletin.unl.edu/courses/ACTS/442)

442/842

Prereqs:
ACTS 471 (<http://bulletin.unl.edu/courses/ACTS/471>)/871 (<http://bulletin.unl.edu/courses/ACTS/871>) with a grade of "C" or better.

Actuarial cost methods. Determination of normal costs and accrued liability. Effect on valuation results due to changes in experience, assumptions and plan provisions. Valuation of ancillary benefits. Determination of actuarially equivalent benefits at early or postponed retirement and optional forms of payment.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

ACTS

Stochastic Processes for Actuaries

[LINK \(http://bulletin.unl.edu/courses/ACTS/450\)](http://bulletin.unl.edu/courses/ACTS/450)

450/850

Prereqs:
STAT 463 (<http://bulletin.unl.edu/courses/STAT/463>) with a grade of "C" or better.

Introduction to stochastic processes and their applications in actuarial science. Discrete-time and continuous-time processes; Markov chains; the Poisson process; compound Poisson processes; non-homogeneous Poisson processes; arithmetic and geometric Brownian motions. Applications of these processes in computation of resident fees for continuing care retirement communities. Pricing of financial instruments.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ACTS

Life Contingencies I[LINK \(http://bulletin.unl.edu/courses/ACTS/470\)](http://bulletin.unl.edu/courses/ACTS/470)**470/870****Prereqs:**

ACTS 440 (<http://bulletin.unl.edu/courses/ACTS/440>) and **STAT 462** (<http://bulletin.unl.edu/courses/STAT/462>), each with a grade of "C" or better.

This course is a prerequisite for: **ACTS 471** (<http://bulletin.unl.edu/courses/ACTS/471>)

First course of a two-course sequence that includes **ACTS 471** (<http://bulletin.unl.edu/courses/ACTS/471>).

Theory and applications of contingency mathematics in the areas of life and health insurance, annuities, and pensions. Probabilistic models.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ACTS

Life Contingencies II[LINK \(http://bulletin.unl.edu/courses/ACTS/471\)](http://bulletin.unl.edu/courses/ACTS/471)**471/871****Prereqs:**

ACTS 470 (<http://bulletin.unl.edu/courses/ACTS/470>) and **STAT 462** (<http://bulletin.unl.edu/courses/STAT/462>), each with a grade of "C" or better.

This course is a prerequisite for: **ACTS 442** (<http://bulletin.unl.edu/courses/ACTS/442>), **ACTS 475** (<http://bulletin.unl.edu/courses/ACTS/475>)

Second course of a two-course sequence that includes **ACTS 470** (<http://bulletin.unl.edu/courses/ACTS/470>).

Life insurance reserve for models based on a single life. Introduction to multiple life models for pensions and life insurance and to multiple decrement models.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ACTS

Introduction to Risk Theory[LINK \(http://bulletin.unl.edu/courses/ACTS/473\)](http://bulletin.unl.edu/courses/ACTS/473)**473/873****Prereqs:**

STAT 462 (<http://bulletin.unl.edu/courses/STAT/462>) with a grade of "C" or better.

Applications of compound distributions in modeling of insurance loss. Continuous-time compound Poisson surplus processes, computation of ruin probabilities, the distributions of the deficit at the time of ruin, and the maximal aggregate loss. The effect of reinsurance on the probability of ruin.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ACTS

Actuarial Applications in Practice[LINK \(http://bulletin.unl.edu/courses/ACTS/475\)](http://bulletin.unl.edu/courses/ACTS/475)**475/875****Prereqs:**

ACTS 471 (<http://bulletin.unl.edu/courses/ACTS/471>)/**871** (<http://bulletin.unl.edu/courses/ACTS/871>); **FINA 307** (<http://bulletin.unl.edu/courses/FINA/307>)/**307H** (<http://bulletin.unl.edu/courses/FINA/307H>) or **338** (<http://bulletin.unl.edu/courses/FINA/338>).

Principles and practices of pricing and/or funding and valuation for life, health, property and liability insurance, and annuities and pension plans. Commercially available actuarial modeling software.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ActuarialScience). (<http://www.unl.edu/gradstudies/prospective/programs/ActuarialScience>)

Program Director: Warren Luckner, Society of Actuaries, M.A.

Graduate Chair: Colin M. Ramsay, Ph.D.

Departments Cooperating: Economics, Finance, Mathematics and Statistics

The University of Nebraska–Lincoln offers a complete program in actuarial science. The graduate program in actuarial science at UNL is open to students with undergraduate degrees in a variety of disciplines. No previous course work in actuarial science is required.

Students seeking admission to the actuarial science program:

1. Submit official GMAT score. Applicants must have a minimum of 575.
2. Submit proof of any Society of Actuaries exams passed.
3. Must submit an official University transcript. Applicants are expected to have a cumulative grade point average (GPA) of at least 3.0 on the 4–point scale (with A=4 points).
4. Must submit three letters of reference from persons who are familiar with their academic ability. The person who writes the letter must use the Actuarial Science Graduate Reference Report form. Each applicant must also complete and return the Actuarial Science Graduate Admissions Checklist.
5. Applicants whose first language is not English must submit a Test of English as a Foreign Language (TOEFL). Applicants should attain a minimum score of 80 IBT.

To be admitted with full graduate standing for work in actuarial science at the University of Nebraska–Lincoln, a student must satisfy the following: (i) the student must pass Exams P and FM of the society of Actuaries; and (ii) the student's undergraduate preparation must have included at least three semesters of calculus, one semester of principles of macro–economics, one semester of principles of linear algebra, one semester of introductory computer programming, one semester of introductory mathematical probability, and one semester of introductory mathematical statistics.

To be admitted with provisional standing, a student's undergraduate preparation must, in the judgment of the Committee, constitute reasonable preparation for actuarial study at the University of Nebraska–Lincoln and is based on how much of the requirements for full graduate standing the student has completed.

Masters Degree Program.

The masters degree program must be completed without a thesis (Option II) and all requirements under this option must be met. Option I (with a thesis) usually is not open for this degree. The non–thesis route (Option II) is required because students will find the additional course work more valuable to them than the thesis, especially with regards to the Society of Actuaries exams. A total of 36 hours is required. The MS degree program is expected to take two years (24 months) for students admitted with deficiencies. For those admitted without deficiencies it normally takes 21 months.

In place of the usual major and minor requirements, the masters program must include ACTS 840, 870, 871, 873 and Finance 812 or 813, and at least 6 additional hours from actuarial science. The program must include at least 12 hours earned in courses open exclusively to graduate students (900–level courses or 800–level courses without 400 or lower level counterparts).

Minors are available in insurance, economics (non–insurance), statistics, or finance. However, the recommended minor is finance. These minors are subject to the approval of the Actuarial Science Graduate Committee. Minors require at least 9 hours in the minor area in addition to the major requirements cited above.

Grades.

It should be noted that within the actuarial science program the normal graduate school scholarship requirement, “B” or better applies to all 800–level major and minor courses. The normal graduate school scholarship requirement, “C” or better, for 900–level courses remains the same for the actuarial degree program. However, a student who receives a “C” grade or lower in his/her minor area may be required to take a Comprehensive Exam in the minor area.

Memorandum of Courses.

The Memorandum of Courses, which contains the proposed list of courses for the student's graduate program, must be filed with the Graduate Studies Office, 1100 Seaton Hall, before completion of the end of their second semester. Students should check with the Graduate Studies Office for further clarification.

The following courses cannot be included as a part of your memorandum of courses: Economics (ECON) 815, 816, 819, 837 and 854; Mathematics (MATH) 800, 813, 814, 820, 821 and 822; Statistics (STAT) 880 and 881; Computer Science & Engineering (CSCE) 840.

Comprehensive Examinations.

Masters degree students will be expected to pass a written comprehensive examination on actuarial science. The Actuarial Science Comprehensive Exam for students graduating in May or August is held on the first Tuesday of April and for students graduating in December, on the Tuesday before Thanksgiving (in November). Students may be expected to pass another written comprehensive examination on their minor area. Check with your minor department. In addition, an oral examination may be required.

Actuarial Science as a Minor.

Students enrolled in other departments may choose to use actuarial science as their minor area under Option II. A minor in actuarial science must include ACTS 840, 870, 871, and 873. Students wishing to take this minor should contact the chair or adviser of their major area, and the Graduate Adviser of the Actuarial

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ActuarialScience). (<http://www.unl.edu/gradstudies/prospective/programs/ActuarialScience>)

Retrieved from "http://bulletin.unl.edu/graduate/Actuarial_Science (http://bulletin.unl.edu/graduate/Actuarial_Science)"
[Back to Top \(#maincontent\)](#)

Agricultural Economics

Subject Areas

- [Agricultural Economics \(ABUS\) \(#ABUS\)](#)
- [Agricultural Economics \(AECN\) \(#AECN\)](#)

Courses for ABUS (ABUS)

ABUS 855	Marketing and Globalization Crosslisted as <i>MRKT 855</i>	LINK (http://bulletin.unl.edu/courses/ABUS/855)								
Prereqs: GRBA *813 or equivalent	Globalization and resulting changes in the business environment. Access to new consumers, new supplies. The effect on consumer choices. Readings from scholarly and popular press, videos, and a "real world" application. Marketing strategies developed for Nebraska firms and organizations such as value-added food marketers.	<table border="1"><tr><td>Credit Hours:</td><td>3-6</td></tr><tr><td>Max credits per degree:</td><td>6</td></tr><tr><td>Campus:</td><td></td></tr><tr><td>Course Delivery:</td><td>Classroom</td></tr></table>	Credit Hours:	3-6	Max credits per degree:	6	Campus:		Course Delivery:	Classroom
Credit Hours:	3-6									
Max credits per degree:	6									
Campus:										
Course Delivery:	Classroom									

Courses for AECN (AECN)

AECN 401/801	Advanced Farm Management and Linear Programming	LINK (http://bulletin.unl.edu/courses/AECN/401)				
Prereqs: AECN 201 (http://bulletin.unl.edu/courses/AECN/201) .	<i>Capstone course.</i> The role of budgeting and linear programming in analyzing farm organization problems, theory of linear programming, linear program design, and analysis of linear programmed solutions to farm organization problems. Includes goal programming, multiple objective programming, risk programming, and financial modeling.	<table border="1"><tr><td>Credit Hours:</td><td>3</td></tr><tr><td>Course Delivery:</td><td>Classroom</td></tr></table>	Credit Hours:	3	Course Delivery:	Classroom
Credit Hours:	3					
Course Delivery:	Classroom					

AECN 452/852	Agricultural Finance	LINK (http://bulletin.unl.edu/courses/AECN/452)						
Prereqs: AECN 201 (http://bulletin.unl.edu/courses/AECN/201) or 4 hrs accounting.	Principles and concepts of financial management of farm and agribusiness firms developed. Various strategies for acquiring and using capital resources by the individual firm explored. Institutions providing the sources of agricultural credit are individually studied.	<table border="1"><tr><td>Credit Hours:</td><td>3</td></tr><tr><td>Course Format:</td><td>Lecture 3</td></tr><tr><td>Course Delivery:</td><td>Classroom</td></tr></table>	Credit Hours:	3	Course Format:	Lecture 3	Course Delivery:	Classroom
Credit Hours:	3							
Course Format:	Lecture 3							
Course Delivery:	Classroom							

AECN

Environmental Law[LINK \(http://bulletin.unl.edu/courses/AECN/456\)](http://bulletin.unl.edu/courses/AECN/456)**456/856**Crosslisted as *NREE 456***Prereqs:**

Junior standing. AECN/NREE 357
<http://bulletin.unl.edu/courses/NREE/357> recommended.

Offered odd numbered years. Available through Extended Education and Outreach.

Administrative law, risk assessment, environmental impact review, Clean Air Act, Clean Water Act, non-point pollution control, wetlands regulations pesticide and toxic substance regulation, solid and hazardous waste regulation, drinking water protection, land use regulation, energy policy, and international environmental law.

Credit Hours:	3
Course Format:	Personalized System of Instruction
Course Delivery:	Classroom

AECN

Water Law[LINK \(http://bulletin.unl.edu/courses/AECN/457\)](http://bulletin.unl.edu/courses/AECN/457)**457/857**Crosslisted as *NREE 457, WATS 457***Prereqs:**

AECN/NREE 357 (<http://bulletin.unl.edu/courses/NREE/357>).

Course offered even numbered years. Offered through Extended Education and Outreach.

Environmental impact review; public trust doctrine; endangered species; land use controls; wetlands regulation; surface and ground water rights; Indian and federal water rights; impact of water quality regulations on water allocation.

Credit Hours:	3
Max credits per degree:	3
Course Format:	Personalized System of Instruction
Course Delivery:	Classroom

AECN

Resource and Environmental Economics II[LINK \(http://bulletin.unl.edu/courses/AECN/465\)](http://bulletin.unl.edu/courses/AECN/465)**465/865**Crosslisted as *NREE 465, WATS 465***Prereqs:**

MATH 104 (<http://bulletin.unl.edu/courses/MATH/104>) and one course in statistics.

Credit in AECN 865 (<http://bulletin.unl.edu/courses/AECN/865>) will not count toward any advanced degree programs in ECON or AECN.

Application of resource economics concepts and empirical tools to resource management problems. Public policy issues involving environmental quality, land and water management.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AECN

Agricultural Law[LINK \(http://bulletin.unl.edu/courses/AECN/804\)](http://bulletin.unl.edu/courses/AECN/804)**804**Crosslisted as *LAW 704G*

Legal problems and issues of unique importance to lawyers serving the agricultural sector. The Farm Credit System, the Farmers' Home Administration, and farm financing problems under the Uniform Commercial Code; commodity futures markets; agricultural cooperatives; farmland preservation and rural land use controls; foreign investment in American agriculture; farm labor legislation; farm programs and the economic regulation of agriculture; pesticides; and food additives.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

AECN

Analytical Methods in Economics and Business[LINK \(http://bulletin.unl.edu/courses/AECN/815\)](http://bulletin.unl.edu/courses/AECN/815)**815**Crosslisted as *ECON 815***Prereqs:**

MATH 104 (<http://bulletin.unl.edu/courses/MATH/104>) or **106** (<http://bulletin.unl.edu/courses/MATH/106>)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Equilibrium Analysis: Applications in business, finance, and economics. Market equilibria, accumulations, and economics. Optimization: profit, cost, and utility functions. Constrained optimization problems with utility functions. Constrained optimization problems in production and consumer allocations; Kuhn and Tucker conditions; static and dynamic input-output Models.

AECN
818

Taxation–Farm and Ranch

Crosslisted as *POLS 818*

[LINK \(http://bulletin.unl.edu/courses/AECN/818\)](http://bulletin.unl.edu/courses/AECN/818)

Prereqs:

[ACCT 812 \(http://bulletin.unl.edu/courses/ACCT/812\)](http://bulletin.unl.edu/courses/ACCT/812) or [LAW 637G \(http://bulletin.unl.edu/courses/LAW/637G\)](http://bulletin.unl.edu/courses/LAW/637G).

Selection of substantial income tax problems affecting farms and ranches.

Credit Hours: 1–4

Campus:

Course Delivery: Classroom

AECN
832

Economics of Agricultural Production

[LINK \(http://bulletin.unl.edu/courses/AECN/832\)](http://bulletin.unl.edu/courses/AECN/832)

Prereqs:

[AECN 201 \(http://bulletin.unl.edu/courses/AECN/201\)](http://bulletin.unl.edu/courses/AECN/201), [ECON 373 \(http://bulletin.unl.edu/courses/ECON/373\)](http://bulletin.unl.edu/courses/ECON/373), [MATH 104 \(http://bulletin.unl.edu/courses/MATH/104\)](http://bulletin.unl.edu/courses/MATH/104)

Static economic analysis of multi-variant agriculture response functions. Resource and enterprise choice, cost functions, resource evaluation, and size and scale economies.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

AECN
840

Applied Welfare Economics and Public Policy

[LINK \(http://bulletin.unl.edu/courses/AECN/840\)](http://bulletin.unl.edu/courses/AECN/840)

Prereqs:

[AECN/ECON *873](#)

Principles of welfare economics applied to policy issues in agriculture and natural resources. Review of measures of household welfare, willingness to pay, and notions of Pareto optimality, aggregate welfare and market failure. Practical methods of comparative statics analysis of the effect of public policies on consumer and firm behavior, and on market equilibrium. Theory of externalities and welfare implications of market versus non-market allocation of public goods examined. Applications include evaluation of such policies as taxes, price supports, quotas, pollution controls, environmental damage liability, and intellectual property rights.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

AECN
841

Environmental Law

Crosslisted as *LAW 641G*

[LINK \(http://bulletin.unl.edu/courses/AECN/841\)](http://bulletin.unl.edu/courses/AECN/841)

Legal problems encountered as a result of the impairment of the quality of the environment. Control of air, water, land, noise, and radiation pollution, and the roles of federal, interstate, state, and local agencies in affording protection. Includes private actions, class actions, and regulatory actions to protect both private and public interests.

Credit Hours: 1–4

Campus:

Course Delivery: Classroom

AECN
868

Advanced Resource and Environmental Economics

[LINK \(http://bulletin.unl.edu/courses/AECN/868\)](http://bulletin.unl.edu/courses/AECN/868)

Prereqs:

[AECN/ECON *873](#), [AECN 865 \(http://bulletin.unl.edu/courses/AECN/865\)](http://bulletin.unl.edu/courses/AECN/865), [ECON 817 \(http://bulletin.unl.edu/courses/ECON/817\)](http://bulletin.unl.edu/courses/ECON/817)

Credit Hours: 3

Course Format: Lecture 3

<http://bulletin.unl.edu/courses/ECON/817>

Application of conceptual and empirical tools for analyzing resource problems. Both public and private dimensions of resource management are considered with emphasis on public policy. Economics of environmental quality, management of exhaustible and renewable resources, valuation of non-market goods and key elements of environmental policy analysis.

Campus:
Course Delivery: Classroom

AECN **873** **Microeconomic Models and Applications**

Crosslisted as *ECON 873*

[LINK \(http://bulletin.unl.edu/courses/AECN/873\)](http://bulletin.unl.edu/courses/AECN/873)

Prereqs:
[ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211), [212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212), and [215 \(http://bulletin.unl.edu/courses/ECON/215\)](http://bulletin.unl.edu/courses/ECON/215)

This course is intended for MA Option II students and others who do not plan to proceed to PhD studies. Analysis of microeconomic decision-making by individuals and firms with emphasis on consumer demand, production, cost and profit, market structure and the economics of games, uncertainty, and information.

Credit Hours: 3
Campus:
Course Delivery: Classroom

AECN **876** **Water Law, Planning and Policy**

Crosslisted as *LAW 776G*

[LINK \(http://bulletin.unl.edu/courses/AECN/876\)](http://bulletin.unl.edu/courses/AECN/876)

Judicial, legislative, and administrative problems in water resource development, allocation, and control.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

AECN **883** **Ecological Economics**

Crosslisted as *NRES 883*

[LINK \(http://bulletin.unl.edu/courses/AECN/883\)](http://bulletin.unl.edu/courses/AECN/883)

Prereqs:
[AECN 141 \(http://bulletin.unl.edu/courses/AECN/141\)](http://bulletin.unl.edu/courses/AECN/141) or [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212) or equivalent

A synthesis across the notion of "utility" as represented in traditional environmental and natural resource economics, "ecology" in ecological economics, and "community" in behavioral economics. Ideas from thermodynamics with a focus on renewable resources. Development, organization, and enhancement of eco-business, eco-industry, eco-government and eco-communities.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

AECN **893** **Law and Economics**

Crosslisted as *LAW 693G*

[LINK \(http://bulletin.unl.edu/courses/AECN/893\)](http://bulletin.unl.edu/courses/AECN/893)

Economic principles to problems of legal interpretation and policy. Gives economic background for substantive courses in such areas as antitrust, regulated industries, and environmental law and also demonstrates the power of economic analysis when applied to problems in such diverse areas as contracts, property, torts, criminal law, family law, corporations, taxation, securities, procedure, and constitutional law.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

AECN **896** **Special Topics in Agricultural Economics**

[LINK \(http://bulletin.unl.edu/courses/AECN/896\)](http://bulletin.unl.edu/courses/AECN/896)

Prereqs:
12 hrs agricultural economics or closely related areas and permission

Credit Hours: 1-6
Max credits per degree: 6

Focused agricultural economics topics through research, narrowly targeted literature review, or extension of course work.

Campus:

Course Delivery: Classroom

AECN
899 Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/AECN/899\)](http://bulletin.unl.edu/courses/AECN/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

AECN
901 Directed Study of Advanced Topics in Agricultural Economics

[LINK \(http://bulletin.unl.edu/courses/AECN/901\)](http://bulletin.unl.edu/courses/AECN/901)

This course is a prerequisite for: [AECN 902](http://bulletin.unl.edu/courses/AECN/902) (<http://bulletin.unl.edu/courses/AECN/902>), [AECN 902A](http://bulletin.unl.edu/courses/AECN/902A) (<http://bulletin.unl.edu/courses/AECN/902A>), [AECN 902B](http://bulletin.unl.edu/courses/AECN/902B) (<http://bulletin.unl.edu/courses/AECN/902B>), [AECN 902D](http://bulletin.unl.edu/courses/AECN/902D) (<http://bulletin.unl.edu/courses/AECN/902D>), [AECN 902E](http://bulletin.unl.edu/courses/AECN/902E) (<http://bulletin.unl.edu/courses/AECN/902E>), [AECN 902I](http://bulletin.unl.edu/courses/AECN/902I) (<http://bulletin.unl.edu/courses/AECN/902I>)

Credit Hours: 3

Max credits per degree: 15

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

Significant literature in selected fields of agricultural and resource economics to provide a broad background for conducting research in these fields.

- A. Production Economics (3 cr) Prereq: [ECON 973](http://bulletin.unl.edu/courses/ECON/973) (<http://bulletin.unl.edu/courses/ECON/973>) and [974](http://bulletin.unl.edu/courses/ECON/974) (<http://bulletin.unl.edu/courses/ECON/974>), or permission.
- B. Agricultural Industrial Organization (3 cr) Prereq: AECN *812.
- D. International Agricultural Trade (3 cr) Prereq: [ECON 821](http://bulletin.unl.edu/courses/ECON/821) (<http://bulletin.unl.edu/courses/ECON/821>) or permission.
- E. Agricultural Development (3 cr) Prereq: [ECON 973](http://bulletin.unl.edu/courses/ECON/973) (<http://bulletin.unl.edu/courses/ECON/973>) and [974](http://bulletin.unl.edu/courses/ECON/974) (<http://bulletin.unl.edu/courses/ECON/974>), or permission.
- J. Natural Resource Economics (3 cr) Prereq: AECN *868.

AECN
901A Production Economics

[LINK \(http://bulletin.unl.edu/courses/AECN/901A\)](http://bulletin.unl.edu/courses/AECN/901A)

Prereqs:
[ECON 973](http://bulletin.unl.edu/courses/ECON/973) (<http://bulletin.unl.edu/courses/ECON/973>) and [974](http://bulletin.unl.edu/courses/ECON/974) (<http://bulletin.unl.edu/courses/ECON/974>), or permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

This course is a prerequisite for: [AECN 902A](http://bulletin.unl.edu/courses/AECN/902A) (<http://bulletin.unl.edu/courses/AECN/902A>)

AECN
901B Agricultural Industrial Organization

[LINK \(http://bulletin.unl.edu/courses/AECN/901B\)](http://bulletin.unl.edu/courses/AECN/901B)

Prereqs:
AECN *812

Credit Hours: 3

Campus:

Course Delivery: Classroom

This course is a prerequisite for: [AECN 902B](http://bulletin.unl.edu/courses/AECN/902B) (<http://bulletin.unl.edu/courses/AECN/902B>)

AECN
901D International Agricultural Trade

[LINK \(http://bulletin.unl.edu/courses/AECN/901D\)](http://bulletin.unl.edu/courses/AECN/901D)

Prereqs:
[ECON 821](http://bulletin.unl.edu/courses/ECON/821) (<http://bulletin.unl.edu/courses/ECON/821>) or permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

This course is a prerequisite for: [AECN 902E](http://bulletin.unl.edu/courses/AECN/902E) (<http://bulletin.unl.edu/courses/AECN/902E>)

AECN
901E

Agricultural Development

[LINK \(http://bulletin.unl.edu/courses/AECN/901E\)](http://bulletin.unl.edu/courses/AECN/901E)

Prereqs:
[ECON 973 \(http://bulletin.unl.edu/courses/ECON/973\)](http://bulletin.unl.edu/courses/ECON/973) and [974 \(http://bulletin.unl.edu/courses/ECON/974\)](http://bulletin.unl.edu/courses/ECON/974), or permission

This course is a prerequisite for: [AECN 902I \(http://bulletin.unl.edu/courses/AECN/902I\)](http://bulletin.unl.edu/courses/AECN/902I)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AECN
901J

Natural Resource Economics

[LINK \(http://bulletin.unl.edu/courses/AECN/901J\)](http://bulletin.unl.edu/courses/AECN/901J)

Prereqs:
AECN *868

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AECN
902

Research in Agricultural Economics

[LINK \(http://bulletin.unl.edu/courses/AECN/902\)](http://bulletin.unl.edu/courses/AECN/902)

Prereqs:
Appropriate section of [AECN 901 \(http://bulletin.unl.edu/courses/AECN/901\)](http://bulletin.unl.edu/courses/AECN/901)

Investigation of a research issue in a field of agricultural economics. Identification of an issue, discovery and interpretation of relevant research, rigorous development of an additional contribution to the resolution of the issue.

Credit Hours:	3
Max credits per degree:	15
Course Format:	Lecture
Course Delivery:	Classroom

AECN
902A

Production Economics

[LINK \(http://bulletin.unl.edu/courses/AECN/902A\)](http://bulletin.unl.edu/courses/AECN/902A)

Prereqs:
[AECN 901A \(http://bulletin.unl.edu/courses/AECN/901A\)](http://bulletin.unl.edu/courses/AECN/901A).

Investigation of a research issue in a field of agricultural economics. Identification of an issue, discovery and interpretation of relevant research, rigorous development of an additional contribution to the resolution of the issue.

Credit Hours:	3
Max credits per degree:	15
Course Format:	Lecture
Course Delivery:	Classroom

AECN
902B

Agricultural Industrial Organization

[LINK \(http://bulletin.unl.edu/courses/AECN/902B\)](http://bulletin.unl.edu/courses/AECN/902B)

Prereqs:
[AECN 901B \(http://bulletin.unl.edu/courses/AECN/901B\)](http://bulletin.unl.edu/courses/AECN/901B).

Investigation of a research issue in a field of agricultural economics. Identification of an issue, discovery and interpretation of relevant research, rigorous development of an additional contribution to the resolution of the issue.

Credit Hours:	3
Max credits per degree:	15
Course Format:	Lecture
Course Delivery:	Classroom

AECN
902D

International Agricultural Trade

[LINK \(http://bulletin.unl.edu/courses/AECN/902D\)](http://bulletin.unl.edu/courses/AECN/902D)

Prereqs:
[AECN 901C \(http://bulletin.unl.edu/courses/AECN/901C\)](http://bulletin.unl.edu/courses/AECN/901C).

Investigation of a research issue in a field of agricultural economics. Identification of an issue, discovery and interpretation of relevant research,

Credit Hours:	3
Max credits per degree:	15
Course Format:	Lecture

rigorous development of an additional contribution to the resolution of the issue.

Course Delivery: Classroom

AECN
902E Agricultural Development

[LINK \(http://bulletin.unl.edu/courses/AECN/902E\)](http://bulletin.unl.edu/courses/AECN/902E)

Prereqs:
[AECN 901D \(http://bulletin.unl.edu/courses/AECN/901D\)](http://bulletin.unl.edu/courses/AECN/901D).

Investigation of a research issue in a field of agricultural economics. Identification of an issue, discovery and interpretation of relevant research, rigorous development of an additional contribution to the resolution of the issue.

Credit Hours:	3
Max credits per degree:	15
Course Format:	Lecture
Course Delivery:	Classroom

AECN
902J Natural Resource Economics

[LINK \(http://bulletin.unl.edu/courses/AECN/902J\)](http://bulletin.unl.edu/courses/AECN/902J)

Prereqs:
[AECN 901E \(http://bulletin.unl.edu/courses/AECN/901E\)](http://bulletin.unl.edu/courses/AECN/901E).

Investigation of a research issue in a field of agricultural economics. Identification of an issue, discovery and interpretation of relevant research, rigorous development of an additional contribution to the resolution of the issue.

Credit Hours:	3
Max credits per degree:	15
Course Format:	Lecture
Course Delivery:	Classroom

AECN
921 Seminar in International Trade and Finance

Crosslisted as *ECON 921*

[LINK \(http://bulletin.unl.edu/courses/AECN/921\)](http://bulletin.unl.edu/courses/AECN/921)

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AECN
999 Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/AECN/999\)](http://bulletin.unl.edu/courses/AECN/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

POLS
466/866 Pro-seminar in International Relations I

Crosslisted as *HIST 479/879, SOCI 466/866, ANTH 479/879, GEOG 448/848, ECON 466/866, AECN 467*

[LINK \(http://bulletin.unl.edu/courses/POLS/466\)](http://bulletin.unl.edu/courses/POLS/466)

Prereqs:
Senior standing and permission.

Open to students with an interest in international relations.

Topic varies

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	International Relations

Ω
Description

For a brief description of the program, application requirements and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/AgriculturalEconomics). (<http://www.unl.edu/gradstudies/prospective/programs/AgriculturalEconomics>)

Department Head: Larry Van Tassell, Ph.D.

Graduate Chair: Richard K. Perrin, Ph.D.

The department offers programs leading to the master of science and doctoral degrees in agricultural economics.

Admission decisions for the M.S. and Ph.D. programs are based on the applicant's likelihood of success in graduate work as evidenced by previous academic performance, letters of recommendation and GRE scores (optional). No one consideration is determining, although applicants generally must have earned an overall GPA of 3.25 with a 3.5 the last two years of academic work. Performance in agricultural economics, economics, mathematics, statistics and related courses is given special consideration.

The GRE (General) is strongly suggested for financial assistance and for admission in most circumstances. There is no predetermined minimum score. International students are required to submit TOEFL scores unless they have received a degree in which English was the medium of instruction. The minimum acceptable score is 550 (paper-based exam) or 213 (computer-based exam), or a minimum score of 6 on the International English Language Testing System (IELTS).

Applicants for the master of science in agricultural economics should have completed intermediate macro- and microeconomics, introductory statistics, and one semester of analytical geometry/calculus or calculus for managerial and social sciences.

<br. The master of science degree core course requirements include orientation to research, micro-economics and econometrics.

Applicants for the doctor of philosophy normally will have a master of science degree in agricultural economics or a related field, but outstanding students may be admitted to the Ph.D. program without first completing a masters degree. All PhD applicants must have completed math equivalent to the three-semester analytical geometry/calculus sequence taught at the University of Nebraska-Lincoln.

Doctor of philosophy candidates must include in their program of study one year of advanced econometrics, one year of advanced microeconomic theory, and one semester of advanced macroeconomic theory. In addition, they must complete two AECN 901 courses and two AECN 902 courses.

Master of Science Degree Minor.

Successful completion of at least 9 credit hours of courses selected in consultation with a representative of the department of agricultural economics and the student's adviser. No more than a total of 3 credit hours may be in AECN 896. No comprehensive exam will be required if all courses are completed with a grade of B or better.

Doctor of Philosophy Degree Minor.

Successful completion of at least 16 credit hours of courses selected in consultation with a representative of the department of agricultural economics and the student's supervisory committee. No more than a total of 4 credit hours in AECN 896.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/AgriculturalEconomics). (<http://www.unl.edu/gradstudies/prospective/programs/AgriculturalEconomics>)

Retrieved from "http://bulletin.unl.edu/graduate/Agricultural_Economics (http://bulletin.unl.edu/graduate/Agricultural_Economics)"

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Agronomy

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Courses for AGRO (AGRO)

AGRO 411/811	Crop Genetic Engineering	LINK (http://bulletin.unl.edu/courses/AGRO/411)
Basic steps required to produce genetically engineered crops. Genetic engineering procedures used to develop current crops and innovations that will lead to future products. Genetic engineering process and predicting how changes in different steps of the process influence the final crop. Application of genetic engineering technology to plan the development of new genetically engineered crops.		Credit Hours: 1 Course Delivery: Classroom
AGRO 412/812	Crop and Weed Genetics	LINK (http://bulletin.unl.edu/courses/AGRO/412)
Application of classical and molecular genetic principles to the explanation of variation observed in plant families and populations. Interpretation of		Credit Hours: 1 Course Delivery: Classroom

information gathered from whole plant trait observation and from molecular analysis. Relationships between crops and weeds. Examples from genetic studies on both crop and weed species are the basis of course.

AGRO

Invasive Plants

[LINK \(http://bulletin.unl.edu/courses/AGRO/426\)](http://bulletin.unl.edu/courses/AGRO/426)

426/826

Crosslisted as *HORT 426/826, NRES 426/826*

Prereqs:

[AGRO/HORT/SOIL 153 \(http://bulletin.unl.edu/courses/SOIL/153\)](http://bulletin.unl.edu/courses/SOIL/153); [BIOS 109 \(http://bulletin.unl.edu/courses/BIOS/109\)](http://bulletin.unl.edu/courses/BIOS/109).

Identification, biology and ecology of weedy and invasive plants. Principles of invasive plant management by preventative, cultural, biological, mechanical and chemical means using an adaptive management framework. Herbicide terminology and classification, plant-herbicide and soil-herbicide interactions, equipment calibration and dosage calculations.

Credit Hours:	3
Course Format:	Lecture 2, Lab 2
Course Delivery:	Classroom

AGRO

Agroecology

[LINK \(http://bulletin.unl.edu/courses/AGRO/435\)](http://bulletin.unl.edu/courses/AGRO/435)

435/835

Crosslisted as *HORT 435/835, NRES 435/835*

Prereqs:

For AGRO/HORT/NRES 435: Senior standing or permission. For AGRO/NRES 835: 12 hrs biological or agricultural sciences or permission.

Capstone course. Team projects for developing communication skills and leadership skills.

Integration of principles of ecology, plant and animal sciences, crop protection, and rural landscape planning and management for sustainable agriculture. Includes natural and cultivated ecosystems, population and community ecology, nutrient cycling, pest management, hydrologic cycles, cropping and grazing systems, landscape ecology, biodiversity, and socioeconomic evaluation of systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

Agroecosystems Analysis

[LINK \(http://bulletin.unl.edu/courses/AGRO/436\)](http://bulletin.unl.edu/courses/AGRO/436)

436/836

Crosslisted as *HORT 436/836*

Prereqs:

Senior standing.

Cost of travel required. Summer travel course with multi-state faculty. Farm visits to Iowa, Minnesota and Nebraska.

Identification of grain quality characteristics desired by livestock feeders, human food processors and industrial users, and methods used to measure these characteristics.

Credit Hours:	3
Course Delivery:	Classroom

AGRO

Animal, Food and Industrial Uses of Grain

[LINK \(http://bulletin.unl.edu/courses/AGRO/437\)](http://bulletin.unl.edu/courses/AGRO/437)

437/837

Prereqs:

[CHEM 105 \(http://bulletin.unl.edu/courses/CHEM/105\)](http://bulletin.unl.edu/courses/CHEM/105) or [109 \(http://bulletin.unl.edu/courses/CHEM/109\)](http://bulletin.unl.edu/courses/CHEM/109), and one of the following: [AGRO 204 \(http://bulletin.unl.edu/courses/AGRO/204\)](http://bulletin.unl.edu/courses/AGRO/204) or [ASCI 250 \(http://bulletin.unl.edu/courses/ASCI/250\)](http://bulletin.unl.edu/courses/ASCI/250).

Identification and comparison of grain quality characteristics desired by livestock feeders, human food processors and industrial users, and methods used to measure these characteristics.

Credit Hours:	2
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

Producing Grain for Animal, Food and Industrial Uses[LINK \(http://bulletin.unl.edu/courses/AGRO/438\)](http://bulletin.unl.edu/courses/AGRO/438)**438/838****Prereqs:**

CHEM 109 (<http://bulletin.unl.edu/courses/CHEM/109>) and one of the following: **AGRO 204** (<http://bulletin.unl.edu/courses/AGRO/204>) or **ASCI 250** (<http://bulletin.unl.edu/courses/ASCI/250>).

AGRO 315 (<http://bulletin.unl.edu/courses/AGRO/315>) and *437*

(<http://bulletin.unl.edu/courses/AGRO/437/837>)

(<http://bulletin.unl.edu/courses/AGRO/837>) recommended.

Genetic development, production practices, and grain handling and storage procedures to deliver quality grain to livestock feeders, human food processors and industrial uses.

Credit Hours:	1
Course Delivery:	Classroom

AGRO

Organic Farming and Food Systems[LINK \(http://bulletin.unl.edu/courses/AGRO/439\)](http://bulletin.unl.edu/courses/AGRO/439)**439/839**Crosslisted as *HORT 439/839***Prereqs:**

For 439, 12 credits of agricultural or biological science, economics, or natural resources. For 839, enrolled in M.S. or Ph.D. program.

History of organic farming and horticultural systems, organic certification, nutrient and pest management in organic systems, planning organic enterprises including production and marketing, resilience of organic systems in ecological, economic, and social terms; future issues and potentials of organic food systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

Great Plains Ecosystem[LINK \(http://bulletin.unl.edu/courses/AGRO/440\)](http://bulletin.unl.edu/courses/AGRO/440)**440/840**Crosslisted as *RNGE 440, NRES 440/840***Prereqs:**

Junior standing. **BIOS 101** (<http://bulletin.unl.edu/courses/BIOS/101>) and **101L** (<http://bulletin.unl.edu/courses/BIOS/101L>), or equivalent, recommended.

Characteristics of Great Plains ecosystems, interrelationships of ecological factors and processes, and their application in the management of grasslands. Interactions of fire, vegetation, grazing animals and wildlife.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

Perennial Plant Function, Growth, and Development[LINK \(http://bulletin.unl.edu/courses/AGRO/441\)](http://bulletin.unl.edu/courses/AGRO/441)**441/841**Crosslisted as *HORT 441/841, RNGE 441***Prereqs:**

AGRO 325 (<http://bulletin.unl.edu/courses/AGRO/325>) or equivalent.

Principles of crop physiology and developmental morphology in relation to function, growth, development, and survival of perennial forage, range, and turf plants. The relationship of physiology and morphological development on plant use and management.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

Wildland Plants[LINK \(http://bulletin.unl.edu/courses/AGRO/442\)](http://bulletin.unl.edu/courses/AGRO/442)**442/842**Crosslisted as *RNGE 442, NRES 442/842***Prereqs:**

Junior standing. **BIOS 101** (<http://bulletin.unl.edu/courses/BIOS/101>) and **101L** (<http://bulletin.unl.edu/courses/BIOS/101L>), or equivalent, recommended.

Wildland plants that are important to grassland and shrub land ecosystem

Credit Hours:	3
Course Format:	Lab 4, Lecture 2
Course Delivery:	Classroom

management and production. Distribution, utilization, classification, identification (including identification by vegetative parts), uses by Native Americans, and recognition of grasses, forbs, shrubs, exotic and wetland plants.

AGRO

Vegetation Analysis

[LINK \(http://bulletin.unl.edu/courses/AGRO/444\)](http://bulletin.unl.edu/courses/AGRO/444)

444/844

Crosslisted as *RNGE 444, NRES 444/844*

Prereqs:

Junior standing. [BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [101L \(http://bulletin.unl.edu/courses/BIOS/101L\)](http://bulletin.unl.edu/courses/BIOS/101L), or equivalent, recommended.

Criteria by which grassland are analyzed. Vegetation sampling techniques, measurement and evaluation of grasslands, and measurement of important environmental factors. Evaluations of habitat improvement practices, wildlife value, recreational value, and watershed value.

Credit Hours:	3
Course Format:	Lab 4, Lecture 2
Course Delivery:	Classroom

AGRO

Livestock Management on Range and Pasture

[LINK \(http://bulletin.unl.edu/courses/AGRO/445\)](http://bulletin.unl.edu/courses/AGRO/445)

445/845

Crosslisted as *ASCI 451/851, RNGE 445*

Prereqs:

[ASCI 250 \(http://bulletin.unl.edu/courses/ASCI/250\)](http://bulletin.unl.edu/courses/ASCI/250) and [AGRO 240 \(http://bulletin.unl.edu/courses/AGRO/240\)](http://bulletin.unl.edu/courses/AGRO/240) or [340 \(http://bulletin.unl.edu/courses/AGRO/340\)](http://bulletin.unl.edu/courses/AGRO/340); [AECN 201 \(http://bulletin.unl.edu/courses/AECN/201\)](http://bulletin.unl.edu/courses/AECN/201) recommended.

Capstone course. All students required to participate in a one-week field trip in central or western Nebraska prior to beginning of fall semester. Therefore, students must notify instructor at time of early registration (Dates are given in class schedule.)

Analyzing the plant and animal resources and economic aspects of pasturage. Management of pasture and range for continued high production emphasized.

Credit Hours:	3
Course Format:	Lecture 2
Course Delivery:	Classroom
ACE Outcomes:	10 ²

AGRO

Soil Chemistry and Mineralogy

[LINK \(http://bulletin.unl.edu/courses/AGRO/455\)](http://bulletin.unl.edu/courses/AGRO/455)

455/855

Crosslisted as *SOIL 455, NRES 455/855*

Prereqs:

[AGRO/HORT/SOIL 153 \(http://bulletin.unl.edu/courses/AGRO/HORT/SOIL/153\)](http://bulletin.unl.edu/courses/AGRO/HORT/SOIL/153) or [GEOL 101 \(http://bulletin.unl.edu/courses/GEOL/101\)](http://bulletin.unl.edu/courses/GEOL/101); [CHEM 109 \(http://bulletin.unl.edu/courses/CHEM/109\)](http://bulletin.unl.edu/courses/CHEM/109) and [110 \(http://bulletin.unl.edu/courses/CHEM/110\)](http://bulletin.unl.edu/courses/CHEM/110); [CHEM 221 \(http://bulletin.unl.edu/courses/CHEM/221\)](http://bulletin.unl.edu/courses/CHEM/221) or [251 \(http://bulletin.unl.edu/courses/CHEM/251\)](http://bulletin.unl.edu/courses/CHEM/251) or [BIOC 221 \(http://bulletin.unl.edu/courses/BIOC/221\)](http://bulletin.unl.edu/courses/BIOC/221); or equivalent.

Chemical and mineralogical properties of soil components. Inorganic colloidal fraction. Structures of soil minerals as a means of understanding properties, such as ion exchange and equilibria; release and supply of nutrient and toxic materials; and soil acidity and alkalinity.

Credit Hours:	3
Course Delivery:	Classroom

AGRO

Soil Chemical Measurements

[LINK \(http://bulletin.unl.edu/courses/AGRO/457\)](http://bulletin.unl.edu/courses/AGRO/457)

457/857

Crosslisted as *SOIL 457, NRES 457/857*

Prereqs:

[AGRO/SOIL 153 \(http://bulletin.unl.edu/courses/AGRO/SOIL/153\)](http://bulletin.unl.edu/courses/AGRO/SOIL/153), [CHEM 116 \(http://bulletin.unl.edu/courses/CHEM/116\)](http://bulletin.unl.edu/courses/CHEM/116) or [221 \(http://bulletin.unl.edu/courses/CHEM/221\)](http://bulletin.unl.edu/courses/CHEM/221) or equivalent or permission.

Permission required to register for 2 cr. Students registered for 3 cr will

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture 2, Lab 6
Course Delivery:	Classroom

design, carry out, and report on an independent study project conducted during the term. Offered even-numbered calendar years. Lab 4-6.

Theory and practice of soil chemical analyses commonly encountered in research and industrial settings. Wet analyses of inorganic fraction of soil and operation of instrumentation necessary to quantify results of those analyses.

AGRO

Soil Microbiology

460/860

Crosslisted as *BIOS 447/847, SOIL 460, NRES 460/860*

[LINK \(http://bulletin.unl.edu/courses/AGRO/460\)](http://bulletin.unl.edu/courses/AGRO/460)

Prereqs:

One semester microbiology; one semester biochemistry or organic chemistry.

Soil from a microbe's perspective—growth, activity and survival strategies; principles governing methods to study microorganisms and biochemical processes in soil; mechanisms controlling organic matter cycling and stabilization with reference to C, N, S, and P; microbial interactions with plants and animals; and agronomic and environmental applications of soil microorganisms.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

Water Quality Strategy

475/875

Crosslisted as *POLS 475/875, SOCI 475/875, GEOL 475/875, CIVE 475/875, SOIL 475, NRES 475/875, WATS 475, MSYM 475/875, CRPL 475/875*

[LINK \(http://bulletin.unl.edu/courses/AGRO/475\)](http://bulletin.unl.edu/courses/AGRO/475)

Prereqs:

Senior standing or permission.

Capstone course.

Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating present strategies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

AGRO

Urbanization of Rural Landscapes

489/889

Crosslisted as *HORT 489/889, CRPL 489/889*

[LINK \(http://bulletin.unl.edu/courses/AGRO/489\)](http://bulletin.unl.edu/courses/AGRO/489)

Prereqs:

Senior standing, graduate standing, or permission.

Development converts rural landscapes into housing, roads, malls, parks, and commercial uses. This process fragments landscapes and changes ecosystem functions, drives up land prices, and pushes agriculture into more marginal areas. This multi-disciplinary, experiential course guides students in learning about the urbanization process, the impacts on landscapes, people, and the community, and the choices that are available to informed citizens.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

Independent Study

496/896

Crosslisted as *RNGE 496, SOIL 496*

[LINK \(http://bulletin.unl.edu/courses/AGRO/496\)](http://bulletin.unl.edu/courses/AGRO/496)

Credit Hours:	1-6
Max credits per degree:	6
Course Delivery:	Classroom

AGRO

Plant-Water Relations

807

Crosslisted as *BIOS 817, NRES 807*

[LINK \(http://bulletin.unl.edu/courses/AGRO/807\)](http://bulletin.unl.edu/courses/AGRO/807)

Prereqs:
[AGRO 325 \(http://bulletin.unl.edu/courses/AGRO/325\)](http://bulletin.unl.edu/courses/AGRO/325) or equivalent;
[MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106) recommended

Quantitative study of water relations in the soil-plant-atmosphere system. Basic physical processes, which describe the movement of water in the soil and the atmosphere, and the physiological processes, which describe water movement inside of the plant. Stomata physiology and the effects of internal water deficits on photosynthesis, respiration, nitrogen metabolism, cell division and cell enlargement. Results from integrative models used to study the relative importance of environmental versus physiological factors for several plant-environment systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO **810** **Plant Molecular Biology**

Crosslisted as *BIOS 810, BIOC 810, HORT 810*

[LINK \(http://bulletin.unl.edu/courses/AGRO/810\)](http://bulletin.unl.edu/courses/AGRO/810)

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315) or [BIOS 206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206); [BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831) or permission

Molecular genetic basis of biological function in higher plants. Genome organization, gene structure and function, regulation of gene expression, recombinant DNA, and genetic engineering principles. Material taken primarily from current literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO **815A** **Self-pollinated Crop Breeding**

Crosslisted as *ENTO 815A*

[LINK \(http://bulletin.unl.edu/courses/AGRO/815A\)](http://bulletin.unl.edu/courses/AGRO/815A)

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315)

This course is a prerequisite for: [AGRO 816B \(http://bulletin.unl.edu/courses/AGRO/816B\)](http://bulletin.unl.edu/courses/AGRO/816B), [AGRO 816E \(http://bulletin.unl.edu/courses/AGRO/816E\)](http://bulletin.unl.edu/courses/AGRO/816E), [AGRO 816I \(http://bulletin.unl.edu/courses/AGRO/816I\)](http://bulletin.unl.edu/courses/AGRO/816I)

Self-pollinated plant breeding theory and methods. Pedigree, bulk, single seed descent, back-crossing methods and inbreeding theory.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

AGRO **815B** **Germplasm and Genes**

Crosslisted as *ENTO 815B*

[LINK \(http://bulletin.unl.edu/courses/AGRO/815B\)](http://bulletin.unl.edu/courses/AGRO/815B)

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315)

Obtaining germplasm and genes from cultivated plants, wild relatives of cultivated plants, and the biosphere. Origination of crops, mutation genetics, biotechnology as a source of genes, chromosomal engineering and plant reproduction.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

AGRO **815D** **Cross-pollinated Crop Breeding**

Crosslisted as *ENTO 815D*

[LINK \(http://bulletin.unl.edu/courses/AGRO/815D\)](http://bulletin.unl.edu/courses/AGRO/815D)

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315)

Cross-pollinated breeding theory and methods. Genes in populations, recurrent selection methods, creating populations, hybrid production practices, and population improvement theory.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

816A

Classical concepts of heterosis; genetic hypotheses for hybrid vigor; quantitative genetics of heterosis; new tools to study hybrid vigor, structure and function; organization of germplasm into heterotic groups; prediction of heterosis and hybrid performance; mechanisms for making hybrid seed; and breeding methods/concepts for developing hybrids in plants.

Credit Hours:	1
Course Format:	Lecture
Course Delivery:	Classroom, Web

AGRO

Haploids and Doubled Haploids in Plant Breeding

[LINK \(http://bulletin.unl.edu/courses/AGRO/816B\)](http://bulletin.unl.edu/courses/AGRO/816B)

816B

Prereqs:

[AGRO 815A \(http://bulletin.unl.edu/courses/AGRO/815A\)](http://bulletin.unl.edu/courses/AGRO/815A), B, and D or permission.

Variations in chromosome number, biology and technology of haploids/doubled haploids in higher plants, microspore embryogenesis, wide hybridizations, in vivo maize parthenogenesis-type, and radiation systems. Use of haploids in genetics research, DH systems in self-pollinated, cross-pollinated, and hybrid crop breeding.

Credit Hours:	1
Course Format:	Lecture
Course Delivery:	Classroom, Web

AGRO

Genotype by Environment Interaction

[LINK \(http://bulletin.unl.edu/courses/AGRO/816E\)](http://bulletin.unl.edu/courses/AGRO/816E)

816E

Prereqs:

[AGRO 815A \(http://bulletin.unl.edu/courses/AGRO/815A\)](http://bulletin.unl.edu/courses/AGRO/815A), B, and D, [STAT 801 \(http://bulletin.unl.edu/courses/STAT/801\)](http://bulletin.unl.edu/courses/STAT/801), [802 \(http://bulletin.unl.edu/courses/STAT/802\)](http://bulletin.unl.edu/courses/STAT/802) or equivalent course work or permission.

Types and causes of phenotype instability due to impacts of environmental factors. Topics include adaptation, impacts of G x E on selection and testing, selection of evaluation environments. Statistical concepts to describe/model interactions, breeding for reliability across unpredictable environments, precision phenotyping, selection for specific stresses, use of QTL's for abiotic and biotic stress stability.

Credit Hours:	1
Course Format:	Lecture
Course Delivery:	Classroom, Web

AGRO

Current Issues in Plant Breeding

[LINK \(http://bulletin.unl.edu/courses/AGRO/816J\)](http://bulletin.unl.edu/courses/AGRO/816J)

816J

Prereqs:

[AGRO 815A \(http://bulletin.unl.edu/courses/AGRO/815A\)](http://bulletin.unl.edu/courses/AGRO/815A), B and D, or equivalent course work, or permission.

Consideration of current issues and new technologies affecting plant breeders and crop improvement. Topics may include patenting of germplasm, use of exotic germplasm, impact of international treaties, genome-wide selection, new breeding techniques and integration of technologies into breeding systems and related topics. Student input concerning potential topics is invited.

Credit Hours:	1
Course Format:	Lecture
Course Delivery:	Classroom, Web

AGRO

Agricultural Biochemistry

[LINK \(http://bulletin.unl.edu/courses/AGRO/818\)](http://bulletin.unl.edu/courses/AGRO/818)

818

Crosslisted as *BIOC 818*

Prereqs:

Undergraduate major in life sciences or related area, and a course in biochemistry

A Web-based course. Biochemical underpinnings of agricultural production and processing systems. Agricultural biotechnology; bioenergetics; kinetics

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

and enzyme regulation; interaction of biomolecules with light, photosynthesis and the balance between anabolism and catabolism in microbes, plants and animals.

AGRO
821

Learning Biotechnology

Crosslisted as *HORT 821*

[LINK \(http://bulletin.unl.edu/courses/AGRO/821\)](http://bulletin.unl.edu/courses/AGRO/821)

Investigate biotechnology and its application in solving problems and connect biotechnology to basic science concepts in biology and chemistry. Integrate individually-designed biotechnology lessons into learning standards.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

AGRO
822

Integrated Weed Management

Crosslisted as *HORT 822*

[LINK \(http://bulletin.unl.edu/courses/AGRO/822\)](http://bulletin.unl.edu/courses/AGRO/822)

Prereqs:
12 hrs AGRO and/or closely related HORT and/or BIOS

Principles and application of (IWM). Noxious and invasive weed species. Crops and weed control. Plant population shifts. Use of herbicides and the biologically effective dose. Critical period of weed control and weed threshold. Herbicide tolerant crops.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

AGRO
823

Herbicide Action in Plants

[LINK \(http://bulletin.unl.edu/courses/AGRO/823\)](http://bulletin.unl.edu/courses/AGRO/823)

Prereqs:
12 hours agronomy or closely related biological sciences courses

The mode of action and plant response to all the major herbicide families. Why herbicides with different modes of action can result in similar plant symptoms. Issues of crop safety and weed control. Role of integrating herbicide resistant crops and weed control in cropping systems.

Credit Hours:	1
Course Format:	Lab
Campus:	
Course Delivery:	Classroom

AGRO
825

Turfgrass Science and Culture

Crosslisted as *HORT 825*

[LINK \(http://bulletin.unl.edu/courses/AGRO/825\)](http://bulletin.unl.edu/courses/AGRO/825)

Prereqs:
9 hrs agricultural plant science and 3 hrs soil science

Offered fall semester of odd-numbered calendar years. Methods and principles of establishment and maintenance of turfgrasses. Climate adaptation; methods of identification and propagation; equipment; fertility and watering practices; insects; diseases; and weed control.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

AGRO
830

Phytopathology Principles

[LINK \(http://bulletin.unl.edu/courses/AGRO/830\)](http://bulletin.unl.edu/courses/AGRO/830)

Prereqs:
Preparatory courses in botany, microbiology, genetics, and biochemistry.

This course is a prerequisite for: [AGRO 830A \(http://bulletin.unl.edu/courses/AGRO/830A\)](http://bulletin.unl.edu/courses/AGRO/830A), [AGRO 830B \(http://bulletin.unl.edu/courses/AGRO/830B\)](http://bulletin.unl.edu/courses/AGRO/830B)

A series of mini-courses. Access to the World Wide Web and E-mail are required. Principles and concepts of plant pathology, including relation of plant disease to crop production, environment, man, current, historical and emerging diseases of corn, soybeans, small grain, turf and sorghum, dry bean and alfalfa. Specific disease cycles, edipemiology and plant health

Credit Hours:	1
Max credits per degree:	8
Course Format:	Lecture
Course Delivery:	Classroom

AGRO
830A **Corn Diseases**

[LINK \(http://bulletin.unl.edu/courses/AGRO/830A\)](http://bulletin.unl.edu/courses/AGRO/830A)

Prereqs:

[AGRO 830 \(http://bulletin.unl.edu/courses/AGRO/830\)](http://bulletin.unl.edu/courses/AGRO/830) or an introductory plant pathology course.

A series of mini-courses. Access to the World Wide Web and E-mail are required. Principles and concepts of plant pathology, including relation of plant disease to crop production, environment, man, current, historical and emerging diseases of corn, soybeans, small grain, turf and sorghum, dry bean and alfalfa. Specific disease cycles, edipemiology and plant health management strategies.

Credit Hours:	1
Max credits per degree:	8
Course Format:	Lecture
Course Delivery:	Classroom

AGRO
830B **Soybean Diseases**

[LINK \(http://bulletin.unl.edu/courses/AGRO/830B\)](http://bulletin.unl.edu/courses/AGRO/830B)

Prereqs:

[AGRO 830 \(http://bulletin.unl.edu/courses/AGRO/830\)](http://bulletin.unl.edu/courses/AGRO/830) or an introductory plant pathology course.

A series of mini-courses. Access to the World Wide Web and E-mail are required. Principles and concepts of plant pathology, including relation of plant disease to crop production, environment, man, current, historical and emerging diseases of corn, soybeans, small grain, turf and sorghum, dry bean and alfalfa. Specific disease cycles, edipemiology and plant health management strategies.

Credit Hours:	1
Max credits per degree:	8
Course Format:	Lecture
Course Delivery:	Classroom

AGRO
831 **Spatial Variability in Soils**

[LINK \(http://bulletin.unl.edu/courses/AGRO/831\)](http://bulletin.unl.edu/courses/AGRO/831)

Prereqs:

[AGRO/SOIL 366 \(http://bulletin.unl.edu/courses/SOIL/366\)](http://bulletin.unl.edu/courses/SOIL/366) and STAT *801.

Offered spring semester of even-numbered years.

Basic concepts of soil variability, its underlying causes. The impact spatial variability has on soil management, primarily for crop production. Geographic and geo-statistical concepts. Use of spatial information for more profitable crop production.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

AGRO
832 **Learning Plant Science**

Crosslisted as *HORT 832*

[LINK \(http://bulletin.unl.edu/courses/AGRO/832\)](http://bulletin.unl.edu/courses/AGRO/832)

The biology of plants grown for food, fiber, fuel and fun. Connect applied plant science to basic science concepts in biology and chemistry. Integrate individually-designed plant science lessons into learning standards.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

AGRO
843 **Ecology of Invasive Species**

[LINK \(http://bulletin.unl.edu/courses/AGRO/843\)](http://bulletin.unl.edu/courses/AGRO/843)

Ecological principles and their application to invasive species. Discussion of population level characteristics and community and ecosystem level effects of a wide variety of taxa including invasive microbial, fungal, plant, invertebrate, and vertebrate examples. Current global consequences and governmental policies/programs designed to limit the spread of invasives.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/AGRO/899\)](http://bulletin.unl.edu/courses/AGRO/899)

Prereqs:
Admission to masters degree program and permission of major adviser

P/N only.

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

AGRO
906

Crop Growth and Yield Modeling

Crosslisted as *NRES 906*

[LINK \(http://bulletin.unl.edu/courses/AGRO/906\)](http://bulletin.unl.edu/courses/AGRO/906)

Prereqs:
[NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808) or equivalent or permission

Experience in programming in a high-level computer language. Offered spring semester of even-numbered calendar years. Descriptive and explanatory crop growth and yield models studied in detail. Descriptive models focus on yield predictions using easily available inputs while the processes that lead to yield will be examined in explanatory models.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AGRO
907

Agricultural Climatology

Crosslisted as *METR 907, HORT 907, NRES 907*

[LINK \(http://bulletin.unl.edu/courses/AGRO/907\)](http://bulletin.unl.edu/courses/AGRO/907)

Prereqs:
[NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808); [STAT 801 \(http://bulletin.unl.edu/courses/STAT/801\)](http://bulletin.unl.edu/courses/STAT/801) or equivalent

Offered spring semester of odd-numbered calendar years. Analysis and use of climatological data as applied to agricultural activities and the use of climatological information to assist in decision making.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

AGRO
908

Solar Radiation Interactions at the Earth's Surface

Crosslisted as *METR 908, HORT 908, NRES 908*

[LINK \(http://bulletin.unl.edu/courses/AGRO/908\)](http://bulletin.unl.edu/courses/AGRO/908)

Prereqs:
[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208); [NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808) or equivalent or permission

Offered spring semester of even-numbered calendar years. Quantitative study of radiative transfer to the earth's surface and subsequent interactions of radiation with vegetative components and underlying surfaces. Applications of canopy radiative modeling and remote sensing techniques, particularly in understanding land-surface processes, are discussed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AGRO
909

Crop Responses to Environment

Crosslisted as *HORT 909, NRES 909*

[LINK \(http://bulletin.unl.edu/courses/AGRO/909\)](http://bulletin.unl.edu/courses/AGRO/909)

Prereqs:
[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208), [NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808), or equivalent or permission

Offered odd-numbered calendar years. Physiological and developmental aspects of hardiness and growth of crop plants as affected by light, temperature, wind, and water. Design, function, and limitations of controlled environment facilities in plant research.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AGRO
919

Plant Genetics

Crosslisted as *HORT 919*

[LINK \(http://bulletin.unl.edu/courses/AGRO/919\)](http://bulletin.unl.edu/courses/AGRO/919)

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315)

Discussions of genetic mechanisms and behavior, with emphasis on plants. Topics include allelism, nonallelic gene interactions, linkage and recombination, inheritance involving the cytoplasm, incompatibility, and mutation.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

AGRO
931

Population Genetics

Crosslisted as *ASCI 931, HORT 931*

[LINK \(http://bulletin.unl.edu/courses/AGRO/931\)](http://bulletin.unl.edu/courses/AGRO/931)

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315) and [STAT 801 \(http://bulletin.unl.edu/courses/STAT/801\)](http://bulletin.unl.edu/courses/STAT/801)

This course is a prerequisite for: [AGRO 932 \(http://bulletin.unl.edu/courses/AGRO/932\)](http://bulletin.unl.edu/courses/AGRO/932)

Structure of populations, forces affecting gene frequency and frequency of genotypes, continuous variation, population values and means, genotypic and environmental variances and covariances.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO
932

Biometrical Genetics and Plant Breeding

Crosslisted as *STAT 932*

[LINK \(http://bulletin.unl.edu/courses/AGRO/932\)](http://bulletin.unl.edu/courses/AGRO/932)

Prereqs:
[AGRO 931 \(http://bulletin.unl.edu/courses/AGRO/931\)](http://bulletin.unl.edu/courses/AGRO/931)

*STAT *802 recommended. Offered odd-numbered calendar years.*

Theoretical concepts involved in planning breeding programs for the improvement of measurable morphological, physiological, and biochemical traits that are under polygenic control in crop plants of various types.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO
940

Forage Evaluation

Crosslisted as *ASCI 924*

[LINK \(http://bulletin.unl.edu/courses/AGRO/940\)](http://bulletin.unl.edu/courses/AGRO/940)

Prereqs:
Permission

Offered even-numbered calendar years. Analytic procedures and research methods used in evaluating biochemical components and nutritive value of forages. An evaluation of the impact of forage quality on forage breeding and animal performance.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AGRO
958

Theoretical Aspects of Physical Chemistry of Soils

[LINK \(http://bulletin.unl.edu/courses/AGRO/958\)](http://bulletin.unl.edu/courses/AGRO/958)

Prereqs:
[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208), [AGRO 855 \(http://bulletin.unl.edu/courses/AGRO/855\)](http://bulletin.unl.edu/courses/AGRO/855), [CHEM 871 \(http://bulletin.unl.edu/courses/CHEM/871\)](http://bulletin.unl.edu/courses/CHEM/871) or [882 \(http://bulletin.unl.edu/courses/CHEM/882\)](http://bulletin.unl.edu/courses/CHEM/882) or permission

Offered even-numbered calendar years. Topics in physical chemistry which have a special significance in the field of soil chemistry. Includes problems and outside readings in this area of soil chemistry.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO
961

Advanced Soil Physics

Crosslisted as *NRES 961*

[LINK \(http://bulletin.unl.edu/courses/AGRO/961\)](http://bulletin.unl.edu/courses/AGRO/961)

Prereqs:

[MATH 208](http://bulletin.unl.edu/courses/MATH/208) (<http://bulletin.unl.edu/courses/MATH/208>) and [PHYS 212](http://bulletin.unl.edu/courses/PHYS/212) (<http://bulletin.unl.edu/courses/PHYS/212>), or equivalent; or permission

Offered odd-numbered calendar years. Physics of soils and porous media, with emphasis on the physics and mathematics of the movement of water, air, and heat through soils.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO
963

Genetics of Host-Parasite Interaction

Crosslisted as *BIOS 963, HORT 963*

[LINK \(http://bulletin.unl.edu/courses/AGRO/963\)](http://bulletin.unl.edu/courses/AGRO/963)

Prereqs:

[BIOS 206](http://bulletin.unl.edu/courses/BIOS/206) (<http://bulletin.unl.edu/courses/BIOS/206>) or [820](http://bulletin.unl.edu/courses/BIOS/820) (<http://bulletin.unl.edu/courses/BIOS/820>)

Recommended [BIOS 312](http://bulletin.unl.edu/courses/BIOS/312) (<http://bulletin.unl.edu/courses/BIOS/312>); *BIOS *864A* or **864B*; and [BIOC 837](http://bulletin.unl.edu/courses/BIOC/837) (<http://bulletin.unl.edu/courses/BIOC/837>). Offered even-numbered calendar years.

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

AGRO
966

Soil Fertility

Crosslisted as *NRES 966*

[LINK \(http://bulletin.unl.edu/courses/AGRO/966\)](http://bulletin.unl.edu/courses/AGRO/966)

Prereqs:

[MATH 106](http://bulletin.unl.edu/courses/MATH/106) (<http://bulletin.unl.edu/courses/MATH/106>); [AGRO 855](http://bulletin.unl.edu/courses/AGRO/855) (<http://bulletin.unl.edu/courses/AGRO/855>) and [857](http://bulletin.unl.edu/courses/AGRO/857) (<http://bulletin.unl.edu/courses/AGRO/857>); [STAT 801](http://bulletin.unl.edu/courses/STAT/801) (<http://bulletin.unl.edu/courses/STAT/801>)

Conditions and transformations involved in the transfer of a mineral nutrient ion from the soil into the plant. Evaluation of nutrient supply to plants.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO
977

Soil Genesis and Classification

Crosslisted as *GEOG 967, NRES 977*

[LINK \(http://bulletin.unl.edu/courses/AGRO/977\)](http://bulletin.unl.edu/courses/AGRO/977)

Prereqs:

[AGRO 153](http://bulletin.unl.edu/courses/AGRO/153) (<http://bulletin.unl.edu/courses/AGRO/153>), [AGRO 877](http://bulletin.unl.edu/courses/AGRO/877) (<http://bulletin.unl.edu/courses/AGRO/877>)/[GEOG 867](http://bulletin.unl.edu/courses/GEOG/867) (<http://bulletin.unl.edu/courses/GEOG/867>), and permission

Procedures used to classify soils, concepts behind the systems in use, and the genesis of the soils in the major categories of each system.

Credit Hours:	3
Course Format:	Lecture 2, Recitation 1
Campus:	
Course Delivery:	Classroom

AGRO
991

Seminar Presentation and Evaluation

Crosslisted as *HORT 991*

[LINK \(http://bulletin.unl.edu/courses/AGRO/991\)](http://bulletin.unl.edu/courses/AGRO/991)

[AGRO 991](http://bulletin.unl.edu/courses/AGRO/991) (<http://bulletin.unl.edu/courses/AGRO/991>) is required for all MS students. Various topics in horticulture, agronomy or related subjects. Emphasis on techniques.

Credit Hours:	1
Max credits per degree:	2
Campus:	
Course Delivery:	Classroom

AGRO
992

General Seminar

Crosslisted as *HORT 950, NRES 950*

[LINK \(http://bulletin.unl.edu/courses/AGRO/992\)](http://bulletin.unl.edu/courses/AGRO/992)

Prereqs:
Permission

Expected of all horticulture graduate students and all agronomy PhD students; optional for agronomy MS students. Presentation of thesis or non-thesis topics in agronomy, horticulture or related subjects. For course description, see [AGRO 992 \(http://bulletin.unl.edu/courses/AGRO/992\)](http://bulletin.unl.edu/courses/AGRO/992).

Credit Hours:	1
Max credits per degree:	5
Campus:	
Course Delivery:	Classroom

AGRO
993 **Seminar, Research Program Proposal**

[LINK \(http://bulletin.unl.edu/courses/AGRO/993\)](http://bulletin.unl.edu/courses/AGRO/993)

Required of PhD students; optional for MS students. Presentation of proposed research and methods. Presented within the student's research discipline and completed before the student has completed 18 graduate course hours.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

AGRO
996 **Research in Crops**

[LINK \(http://bulletin.unl.edu/courses/AGRO/996\)](http://bulletin.unl.edu/courses/AGRO/996)

Prereqs:
12 hrs agronomy or closely related sciences and permission

Credit Hours:	2-5
Campus:	
Course Delivery:	Classroom

AGRO
996A **Research in Soils**

Crosslisted as *NRES 996A*

[LINK \(http://bulletin.unl.edu/courses/AGRO/996A\)](http://bulletin.unl.edu/courses/AGRO/996A)

Prereqs:
12 hrs AGRO or closely related sciences, and permission

Credit Hours:	2-5
Max credits per degree:	5
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

AGRO
999 **Doctoral Dissertation**

[LINK \(http://bulletin.unl.edu/courses/AGRO/999\)](http://bulletin.unl.edu/courses/AGRO/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

P/N only.

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

ANTH
429A/829A **Food Security: A Global Perspective**

Crosslisted as *HORT 429A/829A, AGRO 429A/829A, NRES 429A/829A*

[LINK \(http://bulletin.unl.edu/courses/ANTH/429A\)](http://bulletin.unl.edu/courses/ANTH/429A)

Prereqs:
Junior standing

Overview of the technical and sociocultural dimensions of global food insecurity.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Additional Anthropology Courses

ASCI

824**Forage Quality**Crosslisted as *AGRO 846*[LINK \(http://bulletin.unl.edu/courses/ASCI/824\)](http://bulletin.unl.edu/courses/ASCI/824)**Prereqs:**

AGRO/RNGE 240 (<http://bulletin.unl.edu/courses/RNGE/240>) and **ASCI 320** (<http://bulletin.unl.edu/courses/ASCI/320>), or equivalents; 3 cr hrs of introductory statistics; and permission

The chemical characteristics of forage components. The interactions with ruminant physiology and digestion that influence forage feeding value. The laboratory procedures used to evaluate forages for grazing livestock.

Credit Hours:	3
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

BIOC

434/834**Plant Biochemistry**Crosslisted as *BIOS 434/834, CHEM 434/834, AGRO 434/834*[LINK \(http://bulletin.unl.edu/courses/BIOC/434\)](http://bulletin.unl.edu/courses/BIOC/434)**Prereqs:**

BIOC/BIOS/CHEM 431 (<http://bulletin.unl.edu/courses/CHEM/431>)/**831** (<http://bulletin.unl.edu/courses/CHEM/831>).

Offered every other year beginning spring 2007.

Biochemical metabolism unique to plants. Relationships of topics previously acquired in general biochemistry to biochemical processes unique to plants. Biochemical mechanisms behind physiological processes discussed in plant or crop physiology.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOG

419/819**Applications of Remote Sensing in Agriculture and Natural Resources**Crosslisted as *GEOL 419/819, AGRO 419/819, NRES 420/820*[LINK \(http://bulletin.unl.edu/courses/GEOG/419\)](http://bulletin.unl.edu/courses/GEOG/419)**Prereqs:**

GEOG/NRES 418 (<http://bulletin.unl.edu/courses/NRES/418>).

Introduction to the practical uses of remote electromagnetic sensing in dealing with agricultural and water-resources issues.

Credit Hours:	4
Course Format:	Lecture 3, Lab 2
Course Delivery:	Classroom
Groups:	Techniques

GEO

985**Solute Movement in Soils**Crosslisted as *CIVE 955, AGRO 955, AGEN 955*[LINK \(http://bulletin.unl.edu/courses/GEO/985\)](http://bulletin.unl.edu/courses/GEO/985)**Prereqs:**

MATH 208 (<http://bulletin.unl.edu/courses/MATH/208>); **AGRO 861** (<http://bulletin.unl.edu/courses/AGRO/861>) or **GEOL 888** (<http://bulletin.unl.edu/courses/GEOL/888>) or **MSYM 852** (<http://bulletin.unl.edu/courses/MSYM/852>) or **CIVE 858** (<http://bulletin.unl.edu/courses/CIVE/858>)

Knowledge of a programming language. MATH 821 (<http://bulletin.unl.edu/courses/MATH/821>) recommended. Offered even-numbered calendar years.

Examination of the theory and experimental evidence available to characterize the movement of chemicals in soil. Both saturated and unsaturated flow conditions examined. Initial presentation of basic theoretical concepts. Remainder of class a discussion of the literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

HORT

424/824**Plant Nutrition and Nutrient Management**Crosslisted as *AGRO 424/824*[LINK \(http://bulletin.unl.edu/courses/HORT/424\)](http://bulletin.unl.edu/courses/HORT/424)**Prereqs:**

AGRO 325 (<http://bulletin.unl.edu/courses/AGRO/325>) or basic course in plant physiology. A course in organic chemistry or biochemistry recommended.

Credit Hours:	3
Course Format:	Lab 3
Course Delivery:	Classroom

Offered spring semesters.

Macro and micro nutrient elements and their function in the growth and development of plants. Role of single elements. Interaction and/or balances between elements and nutrient deficiency and/or toxicity symptoms as they affect the physiology of the whole plant. Relationship between crop nutrition and production and/or environmental considerations (e.g. yield, drought, temperature, pests).

HORT

488/488X/888

Business Management for Agricultural Enterprises

[LINK \(http://bulletin.unl.edu/courses/HORT/488\)](http://bulletin.unl.edu/courses/HORT/488)

Crosslisted as ENTR 488/888, EAEP 488/888, AGRO 488/888

HORT 488 (http://bulletin.unl.edu/courses/HORT/488)/888 (http://bulletin.unl.edu/courses/HORT/888) requires the completion of a shadowing assignment and the analyses of case studies.

Research a specific agricultural enterprise. Develop and present a business plan using materials from the primary area of interest.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web
ACE Outcomes:	10 ⁷

HORT

813

Turfgrass and Landscape Weed Management

[LINK \(http://bulletin.unl.edu/courses/HORT/813\)](http://bulletin.unl.edu/courses/HORT/813)

Crosslisted as TLMT 813, AGRO 813

Fundamental terminology associated with turfgrass and landscape weed management. Weed identification and the cultural practices and herbicide strategies to limit weed invasion and persistence.

Credit Hours:	1
Course Format:	Lab 2, Lecture 1
Campus:	
Course Delivery:	Classroom

HORT

897

Master of Applied Science Project

[LINK \(http://bulletin.unl.edu/courses/HORT/897\)](http://bulletin.unl.edu/courses/HORT/897)

Crosslisted as AGRI 897, AGRO 897, NRES 897

Prereqs:
Admission to Master of Applied Science degree program

Project activity for the Master of Applied Science degree.

Design, develop and complete a project that requires synthesis of the course topics covered in the primary area of emphasis.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

NRES

406/806

Plant Ecophysiology: Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/NRES/406\)](http://bulletin.unl.edu/courses/NRES/406)

Crosslisted as HORT 406/806, AGRO 406/806

Prereqs:
Junior standing; 4 hrs ecology; and 4 hrs botany or plant physiology.

Offered fall semester of even-numbered calendar years.

Principles of plant physiology which underlie the relationship between plants and their physical, chemical and biotic environments. An introduction to the ecological niche, limiting factors and adaptation. An overview of the seed germination and ecology, plant and soil water relations, nutrients, plant energy budgets, photosynthesis, carbon balance and plant-animal interactions. An introduction to various field equipment used in ecophysiological studies.

Credit Hours:	4
Course Format:	Lecture 3, Lab 1
Course Delivery:	Classroom

NRES

408/808

Microclimate: The Biological Environment

[LINK \(http://bulletin.unl.edu/courses/NRES/408\)](http://bulletin.unl.edu/courses/NRES/408)

Crosslisted as GEOG 408/808, METR 408/808, HORT 408/808, AGRO 408/808, WATS 408

Prereqs:
Junior standing, MATH 106 (http://bulletin.unl.edu/courses/MATH/106) or equivalent, 5 hrs physics, major in any of the physical or biological

Credit Hours:	3
Course Delivery:	Classroom

sciences or engineering; or permission.

Physical factors that create the biological environment. Radiation and energy balances of earth's surfaces, terrestrial and marine. Temperature, humidity, and wind regimes near the surface. Control of the physical environment through irrigation, windbreaks, frost protection, manipulation of light, and radiation. Applications to air pollution research. Instruments for measuring environmental conditions and remote sensing of the environment.

NRES

Climate and Society

[LINK \(http://bulletin.unl.edu/courses/NRES/452\)](http://bulletin.unl.edu/courses/NRES/452)

452/852

Crosslisted as *GEOG 450/850, METR 450/850, AGRO 450/850*

Prereqs:

[METR 200 \(http://bulletin.unl.edu/courses/METR/200\)](http://bulletin.unl.edu/courses/METR/200) or [351 \(http://bulletin.unl.edu/courses/METR/351\)](http://bulletin.unl.edu/courses/METR/351) or equivalent.

Offered spring semester of even-numbered calendar years.

Impact of climate and extreme climatic events on society and societal responses to those events. Global in scope and interdisciplinary.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

NRES

Soil Physical Determinations

[LINK \(http://bulletin.unl.edu/courses/NRES/458\)](http://bulletin.unl.edu/courses/NRES/458)

458/858

Crosslisted as *AGRO 458/858, SOIL 458*

Prereqs:

[SOIL/AGRO/GEOL/WATS 361 \(http://bulletin.unl.edu/courses/WATS/361\)](http://bulletin.unl.edu/courses/AGRO/GEOL/WATS/361); [PHYS 141 \(http://bulletin.unl.edu/courses/PHYS/141\)](http://bulletin.unl.edu/courses/PHYS/141) or equivalent; [MATH 102 \(http://bulletin.unl.edu/courses/MATH/102\)](http://bulletin.unl.edu/courses/MATH/102) or [103 \(http://bulletin.unl.edu/courses/MATH/103\)](http://bulletin.unl.edu/courses/MATH/103).

Capstone course. Lab 3, plus 3 hrs arr. Grad students in NRES/AGRO 458 (http://bulletin.unl.edu/courses/AGRO/458/858) (http://bulletin.unl.edu/courses/AGRO/858) or SOIL 458 (http://bulletin.unl.edu/courses/SOIL/458) are expected to carry out an independent project and give an oral report.

Survey of measurement techniques and principles used in characterizing the physical properties of soils. Includes analysis of experimental design and sources of experimental error. Techniques include: particle size analysis, soil water content, pore size analysis, field sampling techniques, soil strength, and saturated hydraulic conductivity.

Credit Hours:	2
Course Format:	Lab 3
Course Delivery:	Classroom

NRES

Soil Physics

[LINK \(http://bulletin.unl.edu/courses/NRES/461\)](http://bulletin.unl.edu/courses/NRES/461)

461/861

Crosslisted as *GEOL 461/861, AGRO 461/861, SOIL 461, WATS 461*

Prereqs:

[AGRO/SOIL 153 \(http://bulletin.unl.edu/courses/SOIL/153\)](http://bulletin.unl.edu/courses/AGRO/SOIL/153); [PHYS 141 \(http://bulletin.unl.edu/courses/PHYS/141\)](http://bulletin.unl.edu/courses/PHYS/141) or equivalent, **one semester of calculus.**

Recommended: Parallel [AGRO/NRES/SOIL 458 \(http://bulletin.unl.edu/courses/SOIL/458\)](http://bulletin.unl.edu/courses/AGRO/NRES/SOIL/458).

Principles of soil physics. Movement of water, air, heat, and solutes in soils. Water retention and movement, including infiltration and field water regime. Movement of chemicals in soils.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES

Bio-Atmospheric Instrumentation

[LINK \(http://bulletin.unl.edu/courses/NRES/469\)](http://bulletin.unl.edu/courses/NRES/469)

469/869

Crosslisted as *GEOG 469/869, METR 469/869, HORT 407/807, AGRO 469/869, MSYM 469/869*

Prereqs:

Junior standing; [MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106); 4 hrs physics; physical or

Credit Hours:	3
Course Format:	Lecture 2, Lab 1

Offered fall semester of odd-numbered calendar years.

Discussion and practical application of principles and practices of measuring meteorological and related variables near the earth's surface including temperature, humidity, precipitation, pressure, radiation and wind. Performance characteristics of sensors and modern data collection methods are discussed and evaluated.

NRES

Great Plains Field Pedology

[LINK \(http://bulletin.unl.edu/courses/NRES/477\)](http://bulletin.unl.edu/courses/NRES/477)

477/877

Crosslisted as *GEOG 467/867, AGRO 477, SOIL 477*

Prereqs:

AGRO/SOIL 153 (<http://bulletin.unl.edu/courses/SOIL/153>).

This course is a prerequisite for: [GEOL 465 \(http://bulletin.unl.edu/courses/GEOL/465\)](http://bulletin.unl.edu/courses/GEOL/465)

Spatial relationship of soil properties on various parts of landscape typical of the Plains, causal factors, and predictions of such relationships on other landscapes. Grouping these properties into classes, naming the classes, and the taxonomy that results from this grouping. Application of a taxonomy to a real situation through making a field soil survey in a region representative of the Plains border, predicting land use response of various mapped units as it affects the ecosystem, and evaluating the effectiveness of the taxonomic system used in the region surveyed.

Credit Hours:	4
Course Format:	Lab, Lecture 3
Course Delivery:	Classroom

NRES

Water Resources Seminar

[LINK \(http://bulletin.unl.edu/courses/NRES/484\)](http://bulletin.unl.edu/courses/NRES/484)

484/884

Crosslisted as *GEOG 484/884, GEOL 484/884, AGRO 484/884, WATS 484*

Prereqs:

Junior or above standing, or permission.

Seminar on current water resources research and issues in Nebraska and the region.

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Classroom

NRES

Xenobiotics in the Environment

[LINK \(http://bulletin.unl.edu/courses/NRES/920\)](http://bulletin.unl.edu/courses/NRES/920)

920

Crosslisted as *ENTO 920, HORT 920, AGRO 920*

Prereqs:

Recommend one course each in organic chemistry, soil science, biochemistry, plant physiology, microbiology and ecology

ENTO 920 (http://bulletin.unl.edu/courses/ENTO/920) is offered in odd-numbered calendar years.

Fate and ecotoxicological impacts of biologically foreign compounds in soil-water-plant environments; uptake, mechanisms of toxicity and metabolism in plants and other biota. Herbicides and other pesticides.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

TLMT

Turfgrass Disease Management

[LINK \(http://bulletin.unl.edu/courses/TLMT/414\)](http://bulletin.unl.edu/courses/TLMT/414)

414/814

Crosslisted as *HORT 414/814, PLPT 414/814, AGRO 414/814*

Prereqs:

BIOS/PLPT 369 (<http://bulletin.unl.edu/courses/PLPT/369>) or one semester of introductory plant pathology.

Pathogens, epidemiology, and control of diseases specific to turfgrass.

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Classroom

TLMT

Turfgrass Systems Management

[LINK \(http://bulletin.unl.edu/courses/TLMT/427\)](http://bulletin.unl.edu/courses/TLMT/427)

427/827

Crosslisted as *HORT 427/827, AGRO 427/827*

Prereqs:
[TLMT 227 \(http://bulletin.unl.edu/courses/TLMT/227\)](http://bulletin.unl.edu/courses/TLMT/227) and [TLMT 327 \(http://bulletin.unl.edu/courses/TLMT/327\)](http://bulletin.unl.edu/courses/TLMT/327).

Critical evaluation of turfgrass settings to create economical and environmentally friendly management systems for professionally managed turf areas.

Credit Hours:	3
Course Format:	Lab 3, Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

TLMT

480/880

Modified Rootzones

Crosslisted as *HORT 480/880, AGRO 480/880*

[LINK \(http://bulletin.unl.edu/courses/TLMT/480\)](http://bulletin.unl.edu/courses/TLMT/480)

Offered as a five-week course.

Modified rootzones and their applications in the turfgrass and landscape management industry. Correct applications and construction techniques.

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Web

TLMT

880

Modified Rootzones

Crosslisted as *HORT 880, AGRO 880*

[LINK \(http://bulletin.unl.edu/courses/TLMT/880\)](http://bulletin.unl.edu/courses/TLMT/880)

Modified rootzones and their applications in the turfgrass and landscape management industry. Correct applications and construction techniques.

Credit Hours:	1
Course Format:	Lab 2, Lecture 1
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/AgronomyAndHorticulture\)](http://www.unl.edu/gradstudies/prospective/programs/AgronomyAndHorticulture).

Interim Department Head: Roch Gaussoin, Ph.D.

Graduate Committee: Professors Lagrimini (chair), Arkebauer, Baenziger, Drijber, Ferguson, Holding, Waters

Graduate programs in agronomy may be developed in plant breeding and genetics, soil science, crop physiology and production, range and forage management, and weed science. Applicants must meet the admission requirements for graduate study and must submit to the Department a completed application form including the transcripts of course work, and three letters of recommendation supporting the application from persons qualified to evaluate the applicant's potential for graduate college. Foreign applicants must, in addition, provide evidence of adequate financial resources for self-support during the term of graduate study and must submit English proficiency with minimum scores as outlined by the Graduate College. Applicants are required to send a letter to the chair of the Agronomy Graduate Committee describing their background (vita preferred), experience, and personal and academic goals in pursuing graduate study. A Graduate Record Examination (GRE) is required. Previous academic training must indicate that the student has the scholastic potential to pursue graduate study. Although a background in the area of emphasis is desirable, promising students with degrees in other fields can usually complete basic prerequisites within one semester. A student admitted with deficiencies, as determined by the Graduate Committee, will be enrolled in a provisional status until the deficiencies are removed.

Specializations:

Agricultural Meteorology; Applied Ecology; Crop Physiology and Production; Environmental Studies; Great Plains Studies; Plant Breeding and Genetics; Plant Pathology; Range and Forage Science; Soil and Water Sciences; and Weed Science.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/AgronomyAndHorticulture\)](http://www.unl.edu/gradstudies/prospective/programs/AgronomyAndHorticulture).

Retrieved from "<http://bulletin.unl.edu/graduate/Agronomy> (<http://bulletin.unl.edu/graduate/Agronomy>)"

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Animal Science

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Courses for ASCI (ASCI)

AGRO

445/845

Livestock Management on Range and Pasture

Crosslisted as *ASCI 451/851, RNGE 445*

[LINK \(http://bulletin.unl.edu/courses/AGRO/445\)](http://bulletin.unl.edu/courses/AGRO/445)

Prereqs:

[ASCI 250 \(http://bulletin.unl.edu/courses/ASCI/250\)](http://bulletin.unl.edu/courses/ASCI/250) and [AGRO 240 \(http://bulletin.unl.edu/courses/AGRO/240\)](http://bulletin.unl.edu/courses/AGRO/240) or [340 \(http://bulletin.unl.edu/courses/AGRO/340\)](http://bulletin.unl.edu/courses/AGRO/340); [AECN 201 \(http://bulletin.unl.edu/courses/AECN/201\)](http://bulletin.unl.edu/courses/AECN/201) recommended.

Capstone course. All students required to participate in a one-week field trip in central or western Nebraska prior to beginning of fall semester. Therefore, students must notify instructor at time of early registration (Dates are given in class schedule.)

Analyzing the plant and animal resources and economic aspects of pasturage. Management of pasture and range for continued high production emphasized.

Credit Hours:	3
Course Format:	Lecture 2
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

AGRO

931**Population Genetics**Crosslisted as *ASCI 931, HORT 931*[LINK \(http://bulletin.unl.edu/courses/AGRO/931\)](http://bulletin.unl.edu/courses/AGRO/931)**Prereqs:**

[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315) and [STAT 801 \(http://bulletin.unl.edu/courses/STAT/801\)](http://bulletin.unl.edu/courses/STAT/801)

This course is a prerequisite for: [AGRO 932 \(http://bulletin.unl.edu/courses/AGRO/932\)](http://bulletin.unl.edu/courses/AGRO/932)

Structure of populations, forces affecting gene frequency and frequency of genotypes, continuous variation, population values and means, genotypic and environmental variances and covariances.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO

940**Forage Evaluation**Crosslisted as *ASCI 924*[LINK \(http://bulletin.unl.edu/courses/AGRO/940\)](http://bulletin.unl.edu/courses/AGRO/940)**Prereqs:****Permission**

Offered even-numbered calendar years. Analytic procedures and research methods used in evaluating biochemical components and nutritive value of forages. An evaluation of the impact of forage quality on forage breeding and animal performance.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ASCI

410/810**Processed Meats**[LINK \(http://bulletin.unl.edu/courses/ASCI/410\)](http://bulletin.unl.edu/courses/ASCI/410)**Prereqs:**

[ASCI 210 \(http://bulletin.unl.edu/courses/ASCI/210\)](http://bulletin.unl.edu/courses/ASCI/210) or equivalent. Junior standing or permission.

This course is a prerequisite for: [ASCI 817 \(http://bulletin.unl.edu/courses/ASCI/817\)](http://bulletin.unl.edu/courses/ASCI/817)

3 cr II classroom. 3 cr I, II, III web.

Modern meat processing industry and its use of science and technology. The fabrication, processing, preservation, sanitation, food safety, ethnic evolution, and utilization of manufactured and processed meat. Actual laboratory preparation of processed meats and by-products of the meat packing industry.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Course Delivery:	Classroom, Web

ASCI

419/819**Meat Investigations**Crosslisted as *FDST 419/819*[LINK \(http://bulletin.unl.edu/courses/ASCI/419\)](http://bulletin.unl.edu/courses/ASCI/419)**Prereqs:**

[ASCI 210 \(http://bulletin.unl.edu/courses/ASCI/210\)](http://bulletin.unl.edu/courses/ASCI/210) or permission.

Conduct independent research and study meat industry problems in

Credit Hours:	1-3
Max credits per degree:	3
Course Delivery:	Classroom

processing, production, storage, and preparation of meat and meat products.

ASCI

422/822

Advanced Feeding and Feed Formulation

[LINK \(http://bulletin.unl.edu/courses/ASCI/422\)](http://bulletin.unl.edu/courses/ASCI/422)

Prereqs:

[ASCI 320 \(http://bulletin.unl.edu/courses/ASCI/320\)](http://bulletin.unl.edu/courses/ASCI/320) or equivalent.

ASCI 822 (http://bulletin.unl.edu/courses/ASCI/822) requires the completion of an independent analysis of published research in a selected area of nutrition and submission of a written paper.

Feeding practices for domestic animals. Applied animal nutrition and feed formulation.

Credit Hours:	3
Course Format:	Lecture 2
Course Delivery:	Classroom, Web

ASCI

441/841

New Techniques in Reproductive Biology

[LINK \(http://bulletin.unl.edu/courses/ASCI/441\)](http://bulletin.unl.edu/courses/ASCI/441)

Prereqs:

[ASCI 341 \(http://bulletin.unl.edu/courses/ASCI/341\)](http://bulletin.unl.edu/courses/ASCI/341) or equivalent.

Mammalian early embryonic development. Basic aspects of embryology and development biology. Modern technologies in animal reproductive biology, in vitro maturation and fertilization, embryo transfer, cloning, assisted reproductive technologies, transgenic animals, and embryonic stem cells.

Credit Hours:	3
Course Format:	Lecture 2, Lab 2
Course Delivery:	Classroom

ASCI

442/842

Endocrinology

Crosslisted as *BIOS 442/842, VBMS 842*

[LINK \(http://bulletin.unl.edu/courses/ASCI/442\)](http://bulletin.unl.edu/courses/ASCI/442)

Prereqs:

A course in vertebrate physiology and/or biochemistry.

Mammalian endocrine glands from the standpoint of their structure, their physiological function in relation to the organism, the chemical nature and mechanisms of action of their secretory products, and the nature of anomalies manifested with their dysfunction.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ASCI

806

Animal Science Graduate Seminar

[LINK \(http://bulletin.unl.edu/courses/ASCI/806\)](http://bulletin.unl.edu/courses/ASCI/806)

Prereqs:

Permission

Orientation in the animal science graduate program involving introduction to departmental research program, philosophy, and policies. Discussion of elements of an effective seminar; experience and critique in oral presentation of research data.

Credit Hours:	1
Max credits per degree:	2
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ASCI

817

Meat Technology

[LINK \(http://bulletin.unl.edu/courses/ASCI/817\)](http://bulletin.unl.edu/courses/ASCI/817)

Prereqs:

[ASCI 410 \(http://bulletin.unl.edu/courses/ASCI/410\)](http://bulletin.unl.edu/courses/ASCI/410) or permission

Meat processing and fabrication technology. Practical application of tenderization, restructuring, freezing, dehydration, flavor modification, composition control and quality control technology to manufactured and processed meat products.

Credit Hours:	4
Course Format:	Lab 6, Lecture 2
Campus:	
Course Delivery:	Classroom

ASCI
820

Feedlot Nutrition and Management

LINK (<http://bulletin.unl.edu/courses/ASCI/820>)

Prereqs:
[CHEM 831 \(http://bulletin.unl.edu/courses/CHEM/831\)](http://bulletin.unl.edu/courses/CHEM/831)

Offered odd-numbered calendar years. Nutritional requirements of and complete ration formulation for feedlot cattle. Management practices needed for successful feedlot operation.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
821

Advanced Animal Nutrition

LINK (<http://bulletin.unl.edu/courses/ASCI/821>)

Prereqs:
[ASCI 320 \(http://bulletin.unl.edu/courses/ASCI/320\)](http://bulletin.unl.edu/courses/ASCI/320)

This course is a prerequisite for: [ASCI 925 \(http://bulletin.unl.edu/courses/ASCI/925\)](http://bulletin.unl.edu/courses/ASCI/925), [ASCI 926 \(http://bulletin.unl.edu/courses/ASCI/926\)](http://bulletin.unl.edu/courses/ASCI/926), [ASCI 928 \(http://bulletin.unl.edu/courses/ASCI/928\)](http://bulletin.unl.edu/courses/ASCI/928), [ASCI 929 \(http://bulletin.unl.edu/courses/ASCI/929\)](http://bulletin.unl.edu/courses/ASCI/929)

An advanced course dealing with the nutrition of domestic animals. In-depth coverage of nutrients, nutrient metabolism and nutrient requirements. Biochemical and physiological functions of nutrients in life processes.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
824

Forage Quality

Crosslisted as *AGRO 846*

LINK (<http://bulletin.unl.edu/courses/ASCI/824>)

Prereqs:
[AGRO/RNGE 240 \(http://bulletin.unl.edu/courses/RNGE/240\)](http://bulletin.unl.edu/courses/RNGE/240) and [ASCI 320 \(http://bulletin.unl.edu/courses/ASCI/320\)](http://bulletin.unl.edu/courses/ASCI/320), or equivalents; 3 cr hrs of introductory statistics; and permission

The chemical characteristics of forage components. The interactions with ruminant physiology and digestion that influence forage feeding value. The laboratory procedures used to evaluate forages for grazing livestock.

Credit Hours:	3
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

ASCI
831

Advanced Animal Breeding

LINK (<http://bulletin.unl.edu/courses/ASCI/831>)

Prereqs:
[ASCI 330 \(http://bulletin.unl.edu/courses/ASCI/330\)](http://bulletin.unl.edu/courses/ASCI/330)

Application of genetic principles to animal breeding. Critical examination of current and potential selection programs and crossbreeding systems. Determination of performance objectives. Expected responses to selection methods and dissemination of improvement in an industry.

Credit Hours:	3
Course Format:	Lecture 2, Recitation 1
Campus:	
Course Delivery:	Classroom

ASCI
847

Interdisciplinary Concepts in Beef Production

Crosslisted as *VBMS 847*

LINK (<http://bulletin.unl.edu/courses/ASCI/847>)

Prereqs:
Degree in veterinary medicine or animal science, or allied agricultural degree, or permission

Classroom attendance is required during each of the modules. Between modules distance education technologies (laptop computer, Internet access, a computer operating system with a word processor, spreadsheet, and presentation software, email, etc.) are used and required for discussion and assignments. The contributions and interactions of the major academic disciplines upon the production, performance, health, profitability, and sustainability of beef cow and cattle feeding operations.

Credit Hours:	3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

A. I (3 cr)
B. II (3 cr) Prereq: VBMS *847A.

ASCI
847A **Interdisciplinary Concepts in Beef Production I**

[LINK \(http://bulletin.unl.edu/courses/ASCI/847A\)](http://bulletin.unl.edu/courses/ASCI/847A)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ASCI
847B **Interdisciplinary Concepts in Beef Production II**

[LINK \(http://bulletin.unl.edu/courses/ASCI/847B\)](http://bulletin.unl.edu/courses/ASCI/847B)

Prereqs:
VBMS *847A

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ASCI
896 **Independent Study in Animal Science**

[LINK \(http://bulletin.unl.edu/courses/ASCI/896\)](http://bulletin.unl.edu/courses/ASCI/896)

Prereqs:
12 hrs animal science or closely related areas and permission

Individual or group projects in research, literature review, or extension of course work under supervision and evaluation of a departmental faculty member.

Credit Hours:	1-5
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

ASCI
899 **Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/ASCI/899\)](http://bulletin.unl.edu/courses/ASCI/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

ASCI
905 **Animal Industry Seminar**

[LINK \(http://bulletin.unl.edu/courses/ASCI/905\)](http://bulletin.unl.edu/courses/ASCI/905)

Prereqs:
Permission

Current problems in the field of animal industry.

Credit Hours:	1
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

ASCI
917 **Advanced Meat Science**

[LINK \(http://bulletin.unl.edu/courses/ASCI/917\)](http://bulletin.unl.edu/courses/ASCI/917)

Prereqs:
[CHEM 831 \(http://bulletin.unl.edu/courses/CHEM/831\)](http://bulletin.unl.edu/courses/CHEM/831) and [FDST 848 \(http://bulletin.unl.edu/courses/FDST/848\)](http://bulletin.unl.edu/courses/FDST/848) or permission

Molecular events occurring during the conversion of muscle to meat.
Molecular and cellular properties of meat responsible for the functional and palatability properties of meat products.

Credit Hours:	3
Course Format:	Lab 1, Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
918

Growth and Development of Meat Animals

LINK (<http://bulletin.unl.edu/courses/ASCI/918>)

Prereqs:
Strong background in biological sciences

ASCI/VBMS *845 and *846 recommended. BIOC, BIOS, and [CHEM 831](http://bulletin.unl.edu/courses/CHEM/831) (<http://bulletin.unl.edu/courses/CHEM/831>) and [832](http://bulletin.unl.edu/courses/CHEM/832) (<http://bulletin.unl.edu/courses/CHEM/832>) advised. Growth and development of livestock animals with emphasis on the prenatal and postnatal differentiation and development of skeletal muscle, bone, and adipose tissue; organ growth discussed. Recent literature as well as classical concepts of animal growth discussed along with the genetic, hormonal, and nutritional factors that affect growth.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
921

Interdepartmental Nutrition Seminar

LINK (<http://bulletin.unl.edu/courses/ASCI/921>)

Crosslisted as *NUTR 921*

Prereqs:
Permission

Presentation and discussion of current literature and research in the field of nutrition.

Credit Hours:	1
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

ASCI
925

Energy Metabolism

LINK (<http://bulletin.unl.edu/courses/ASCI/925>)

Crosslisted as *NUTR 925*

Prereqs:
[ASCI 821](http://bulletin.unl.edu/courses/ASCI/821) (<http://bulletin.unl.edu/courses/ASCI/821>), [BIOC 831](http://bulletin.unl.edu/courses/BIOC/831) (<http://bulletin.unl.edu/courses/BIOC/831>), or [NUTR 455](http://bulletin.unl.edu/courses/NUTR/455) (<http://bulletin.unl.edu/courses/NUTR/455>) or [950](http://bulletin.unl.edu/courses/NUTR/950) (<http://bulletin.unl.edu/courses/NUTR/950>); or permission

Offered odd-numbered calendar years. Critically evaluate how research in bioenergetics has contributed to scientific discoveries in the fields of nutrition, biochemistry, and physiology. Methodologies for determination of human and animal energy expenditure and body composition. Specifically, direct calorimetry, indirect calorimetry and comparative slaughter techniques. Emphasis on components of organ and tissue energy expenditures. Background information important in other nutrition courses.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
926

Carbohydrate and Lipid Nutrition

LINK (<http://bulletin.unl.edu/courses/ASCI/926>)

Crosslisted as *NUTR 926*

Prereqs:
[BIOC 831](http://bulletin.unl.edu/courses/BIOC/831) (<http://bulletin.unl.edu/courses/BIOC/831>), [ASCI 821](http://bulletin.unl.edu/courses/ASCI/821) (<http://bulletin.unl.edu/courses/ASCI/821>) or [NUTR 455](http://bulletin.unl.edu/courses/NUTR/455) (<http://bulletin.unl.edu/courses/NUTR/455>) or [950](http://bulletin.unl.edu/courses/NUTR/950) (<http://bulletin.unl.edu/courses/NUTR/950>)

Offered even-numbered calendar years. Nutrition and metabolism of carbohydrates and lipids by animals and humans. Emphasis on fundamental principles and current concepts.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
927

Protein and Amino Acid Nutrition

LINK (<http://bulletin.unl.edu/courses/ASCI/927>)

Crosslisted as *NUTR 927*

Prereqs:
[ASCI 421](http://bulletin.unl.edu/courses/ASCI/421) (<http://bulletin.unl.edu/courses/ASCI/421>)/[821](http://bulletin.unl.edu/courses/ASCI/821) (<http://bulletin.unl.edu/courses/ASCI/821>) or [NUTR 455](http://bulletin.unl.edu/courses/NUTR/455) (<http://bulletin.unl.edu/courses/NUTR/455>) or [950](http://bulletin.unl.edu/courses/NUTR/950)

Credit Hours:	3
Course Format:	Lecture 3
Campus:	

<http://bulletin.unl.edu/courses/NUTR/950>; [BIOC/BIOS/CHEM 431](http://bulletin.unl.edu/courses/BIOC/BIOS/CHEM/431)
<http://bulletin.unl.edu/courses/CHEM/431> / [831](http://bulletin.unl.edu/courses/CHEM/831)
<http://bulletin.unl.edu/courses/CHEM/831>

Course Delivery: Classroom

Offered even-numbered calendar years. Nutrition and metabolism of proteins and amino acids by animals and humans. Fundamental principles and current concepts.

ASCI

928

Mineral Nutrition

Crosslisted as *NUTR 928*

LINK (<http://bulletin.unl.edu/courses/ASCI/928>)

Prereqs:

[ASCI 821](http://bulletin.unl.edu/courses/ASCI/821) (<http://bulletin.unl.edu/courses/ASCI/821>) or [NUTR 455](http://bulletin.unl.edu/courses/NUTR/455)
(<http://bulletin.unl.edu/courses/NUTR/455>) or [950](http://bulletin.unl.edu/courses/NUTR/950)
(<http://bulletin.unl.edu/courses/NUTR/950>) and [BIOC 831](http://bulletin.unl.edu/courses/BIOC/831)
(<http://bulletin.unl.edu/courses/BIOC/831>); or permission

Offered even-numbered calendar years. Nutrition and metabolism of mineral elements by animals and humans. Information and current concepts on the metabolism of minerals and requirements for growth, finishing, maintenance, lactation, and reproduction. Interrelationships among minerals and other nutrients discussed and observed in the laboratory.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

ASCI

928L

Mineral Nutrition Laboratory

Crosslisted as *NUTR 928L*

LINK (<http://bulletin.unl.edu/courses/ASCI/928L>)

Prereqs:

Parallel [ASCI/NUTR 928](http://bulletin.unl.edu/courses/ASCI/928) (<http://bulletin.unl.edu/courses/ASCI/928>)

Laboratory experiments that complement material covered in [ASCI 928](http://bulletin.unl.edu/courses/ASCI/928)
(<http://bulletin.unl.edu/courses/ASCI/928>).

Credit Hours: 1

Course Format: Lab

Campus:

Course Delivery: Classroom

ASCI

929

Vitamin Nutrition

Crosslisted as *NUTR 929*

LINK (<http://bulletin.unl.edu/courses/ASCI/929>)

Prereqs:

[BIOC 831](http://bulletin.unl.edu/courses/BIOC/831) (<http://bulletin.unl.edu/courses/BIOC/831>), [ASCI 821](http://bulletin.unl.edu/courses/ASCI/821)
(<http://bulletin.unl.edu/courses/ASCI/821>) or [NUTR 455](http://bulletin.unl.edu/courses/NUTR/455)
(<http://bulletin.unl.edu/courses/NUTR/455>) or [950](http://bulletin.unl.edu/courses/NUTR/950)
(<http://bulletin.unl.edu/courses/NUTR/950>)

Offered odd-numbered calendar years. History, chemistry, assay procedures, food content, metabolism, biochemical functions, deficiencies, pharmacological doses, toxicities, and factors influencing vitamin status in animals, including humans.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

ASCI

932

Quantitative Animal Genetics I

LINK (<http://bulletin.unl.edu/courses/ASCI/932>)

Prereqs:

[ASCI 931](http://bulletin.unl.edu/courses/ASCI/931) (<http://bulletin.unl.edu/courses/ASCI/931>) or equivalent

Offered even-numbered calendar years. Use of biometrical and population genetics and related physiology, nutrition, pathology, meats, and economics, to develop intrapopulation breeding methods capable of increasing the net bio-economic efficiency of animal production.

Credit Hours: 3

Course Format: Lab 2, Lecture 2

Campus:

Course Delivery: Classroom

ASCI

933

Quantitative Animal Genetics II

LINK (<http://bulletin.unl.edu/courses/ASCI/933>)

Prereqs:
ASCI 931 (<http://bulletin.unl.edu/courses/ASCI/931>)

Offered odd-numbered calendar years. Evaluation of methods for developing and exploiting genetic diversity among animal populations to improve bio-economic efficiency of animal production.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

ASCI
934 Applications of Biotechnology in Animal Science

[LINK \(http://bulletin.unl.edu/courses/ASCI/934\)](http://bulletin.unl.edu/courses/ASCI/934)

Prereqs:
Permission

Offered only during 8-week summer session. Strategies and applications of DNA/RNA based methodologies in animal production systems and animal research programs. Practical and experimental approaches. Background, theory, and statistical methods underlying applications emphasized.

Credit Hours:	4
Course Format:	Lab 9, Lecture 1
Campus:	
Course Delivery:	Classroom

ASCI
949 Biochemistry of Nutrition

Crosslisted as *BIOS 949, BIOC 949, NUTR 949*

[LINK \(http://bulletin.unl.edu/courses/ASCI/949\)](http://bulletin.unl.edu/courses/ASCI/949)

Prereqs:
BIOC 832 (<http://bulletin.unl.edu/courses/BIOC/832>) or *839, or permission

Offered odd-numbered calendar years. Interrelationships of nutrients, nutritional state and metabolic processes. Energy metabolism, integration of nutrition and metabolism and nutritional regulation of gene function.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
996 Problems in Animal Production

[LINK \(http://bulletin.unl.edu/courses/ASCI/996\)](http://bulletin.unl.edu/courses/ASCI/996)

Prereqs:
Permission

Methods employed in livestock production research. Planning and conducting experiments, keeping records, and analysis of data.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ASCI
999 Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/ASCI/999\)](http://bulletin.unl.edu/courses/ASCI/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

VMED
645 Animal Physiology I

Crosslisted as *BIOS 813, ASCI 845, VBMS 845*

[LINK \(http://bulletin.unl.edu/courses/VMED/645\)](http://bulletin.unl.edu/courses/VMED/645)

Prereqs:
For ASCI/VBMS *845/BIOS *813: An undergraduate course in biochemistry or biology or physiology. For VMED 645: First year standing in and admission to VMED.

This course is a prerequisite for: [VMED 645 \(http://bulletin.unl.edu/courses/VMED/645\)](http://bulletin.unl.edu/courses/VMED/645)

Primarily for students in animal or biological sciences or veterinary medicine.

Mammalian physiology and cellular mechanisms. Physiology of the cell,

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

embryology, and neuro-sensory, neuromuscular, endocrine, and reproductive systems.

VMED
646

Animal Physiology II

Crosslisted as BIOS 814, ASCI 846, VBMS 846

[LINK \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646)

Prereqs:

For ASCI/VBMS *846/BIOS *814: An undergraduate course in biochemistry or biology or physiology. For VMED 646: First year standing in and admission to VMED.

This course is a prerequisite for: [VMED 646 \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646)

ASCI/VBMS *846/BIOS *814/[VMED 646 \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646) is designed for students in animal or biological sciences or veterinary medicine.

Mammalian physiology and cellular mechanisms. Physiology of the digestive, cardiovascular, respiratory, and renal systems.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/AnimalScience\)](http://www.unl.edu/gradstudies/prospective/programs/AnimalScience)

Department Head: Larry Berger, Ph.D.

Graduate Committee: Professor Miller (chair); Professor Jones; Associate Professors Kononoff, Burkey, Wood; Assistant Professors Ciobanu, Luebbe; Adjunct Professor Kuehn

The Department of Animal Science offers programs leading to the doctor of philosophy degree in the areas of animal breeding and genetics, meats and poultry products, nonruminant nutrition, physiology, and ruminant nutrition. Students may pursue the master of science degree in any of the above areas. Option II and III are available to students in animal science only by special permission of the Graduate Committee obtained at the time of entry into the program.

In addition to complying with the general requirements of the Graduate College, applicants must submit a letter of intent regarding educational and career goals. Scores from the general test of the Graduate Record Examination are required. Admission with full standing requires a 3.0 grade average (4 pt. scale). For international students, the TOEFL is the only test of English proficiency accepted by the department.

All Students must enroll in ASCI 806 during their first year of graduate study at UNL.

Specializations available at the masters level:

Meat Science and Muscle Biology; Physiology

Specializations available at the doctoral level:

Meat Science and Muscle Biology; Physiology

Faculty

For faculty list, research interests and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/AnimalScience\)](http://www.unl.edu/gradstudies/prospective/programs/AnimalScience)

Retrieved from "[http://bulletin.unl.edu/graduate/Animal_Science \(http://bulletin.unl.edu/graduate/Animal_Science\)](http://bulletin.unl.edu/graduate/Animal_Science)"

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Anthropology

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Courses for ANTH (ANTH)

ANTH
408/808

Cross-Cultural Mentoring I

Crosslisted as WMNS 408/808

[LINK \(http://bulletin.unl.edu/courses/ANTH/408\)](http://bulletin.unl.edu/courses/ANTH/408)

ANTH/WMNS 408 (<http://bulletin.unl.edu/courses/WMNS/408>)/808 (<http://bulletin.unl.edu/courses/WMNS/808>) requires weekly meetings with mentee. Pairs UNL student with a refugee and/or immigrant and/or minority

Credit Hours:	3
Course Format:	Field

K-12 student or adult.

Work with a refugee and/or immigrant and/or minority K-12 student or adult to assist them with the culture transition process, the educational process, problem-solving techniques, and community resources.

Course Delivery: Classroom

ACE Outcomes: 8⁷

Groups: Cultural Anthropology

ANTH
409/809 **Cross-Cultural Mentoring II**

Crosslisted as WMNS 409/809

[LINK \(http://bulletin.unl.edu/courses/ANTH/409\)](http://bulletin.unl.edu/courses/ANTH/409)

Prereqs:

[ANTH/WMNS 408 \(http://bulletin.unl.edu/courses/WMNS/408\)](http://bulletin.unl.edu/courses/WMNS/408)/[808 \(http://bulletin.unl.edu/courses/WMNS/808\)](http://bulletin.unl.edu/courses/WMNS/808).

ANTH/WMNS 409 (http://bulletin.unl.edu/courses/WMNS/409)/809 (http://bulletin.unl.edu/courses/WMNS/809) requires weekly meetings with mentee. Continuation of ANTH/WMNS 408 (http://bulletin.unl.edu/courses/WMNS/408)/808 (http://bulletin.unl.edu/courses/WMNS/808).

Continuation of work with refugee and/or immigrant and/or minority K-12 student or adult to assist them with the educational process and/or culture transition.

Credit Hours: 3

Course Format: Field

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH
410/810 **Women and Men: An Anthropological Perspective**

Crosslisted as WMNS 410/810

[LINK \(http://bulletin.unl.edu/courses/ANTH/410\)](http://bulletin.unl.edu/courses/ANTH/410)

Prereqs:

9 hrs ANTH.

Cross-cultural meaning and impact of gender definition, with emphasis on women. Gender as a correlate of biology, language, economic systems, social and political structures, and belief systems.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH
412/812 **Social Structure**

[LINK \(http://bulletin.unl.edu/courses/ANTH/412\)](http://bulletin.unl.edu/courses/ANTH/412)

Prereqs:

[ANTH 212 \(http://bulletin.unl.edu/courses/ANTH/212\)](http://bulletin.unl.edu/courses/ANTH/212).

Social structure, kin, and local groups.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH
416/816 **Topics in Cultural Anthropology**

[LINK \(http://bulletin.unl.edu/courses/ANTH/416\)](http://bulletin.unl.edu/courses/ANTH/416)

Prereqs:

[ANTH 212 \(http://bulletin.unl.edu/courses/ANTH/212\)](http://bulletin.unl.edu/courses/ANTH/212) or permission.

Advanced study of selected topics in cultural anthropology.

Credit Hours: 3

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH
417/817 **History of Anthropological Theory**

[LINK \(http://bulletin.unl.edu/courses/ANTH/417\)](http://bulletin.unl.edu/courses/ANTH/417)

Prereqs:

9 hrs ANTH.

Origins and developments of anthropological theory, method, and thought.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Historical growth of the discipline and schools of thought from The Enlightenment through The Contemporary Period.

Groups: Integrative Courses, Research and Reading

ANTH **Ethnology and Museums**
418/818

[LINK \(http://bulletin.unl.edu/courses/ANTH/418\)](http://bulletin.unl.edu/courses/ANTH/418)

Prereqs:
12 hrs anthropology.

An approach to the museum as it relates to the growth of anthropology in general and ethnological studies in particular. Emphasis on the study of non-Western technology and its role in the modern museum.

Credit Hours: 3
Course Format: Lecture
Course Delivery: Classroom
Groups: Cultural Anthropology

ANTH **Art and Anthropology of Native North Americans**
419/819

[LINK \(http://bulletin.unl.edu/courses/ANTH/419\)](http://bulletin.unl.edu/courses/ANTH/419)

Survey of Native American art, its prehistoric origins, historical development and recent artistic activity in the principal regions of North America. The context of art in traditional culture and the cultural milieu in which change took place. Artistic media considered are: ceramics, textiles, sculpture, basketry, bead and quill work. Powwows and fairs as important venues for presentation of contemporary Native American art.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom
Groups: Cultural Anthropology

ANTH **Ethnic Identity and Ethnic Conflict**
420/820

[LINK \(http://bulletin.unl.edu/courses/ANTH/420\)](http://bulletin.unl.edu/courses/ANTH/420)

Concept of ethnicity and ethnic groups. Reviews how ethnic groups emerge and ethnic relations affect the modern nation state. Several ethnic conflicts reviewed and examined, accompanied by discussion of the dynamics of each of these situations. How ethnic identity is formed, adjusted and recreated.

Credit Hours: 3
Course Format: Lecture
Course Delivery: Classroom
Groups: Cultural Anthropology

ANTH **Medical Anthropology**
422/822

[LINK \(http://bulletin.unl.edu/courses/ANTH/422\)](http://bulletin.unl.edu/courses/ANTH/422)

Culture as it affects health care, disease transmission and prevention and health education.

Credit Hours: 3
Course Delivery: Classroom
Groups: Biological Anthropology

ANTH **Food Security: A Global Perspective**
429A/829A Crosslisted as *HORT 429A/829A, AGRO 429A/829A, NRES 429A/829A*

[LINK \(http://bulletin.unl.edu/courses/ANTH/429A\)](http://bulletin.unl.edu/courses/ANTH/429A)

Prereqs:
Junior standing

Overview of the technical and sociocultural dimensions of global food insecurity.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom
Groups: Additional Anthropology Courses

ANTH **Nutritional Anthropology**

430/830Crosslisted as *NUTR 430/830*[LINK \(http://bulletin.unl.edu/courses/ANTH/430\)](http://bulletin.unl.edu/courses/ANTH/430)**Prereqs:****ANTH 242** (<http://bulletin.unl.edu/courses/ANTH/242>) or equivalent.

Anthropological approaches to the study of nutrition. Background to nutrition science; bio-cultural aspects of obesity, fertility, lactose intolerance, and infant feeding practices; biological differences in nutritional requirements, fertility, and mortality; interpretation of nutritional deficiencies in skeletal remains; reconstructing prehistoric diets from archaeological evidence; and evaluation of relationships between dietary patterns and dental remains in fossil record.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Biological Anthropology

ANTH

431/831**Historical Archaeology: Current Topics**[LINK \(http://bulletin.unl.edu/courses/ANTH/431\)](http://bulletin.unl.edu/courses/ANTH/431)

Development of Historical Archaeology and current research in the field.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ANTH

432/832**History and Theory of Archaeology**[LINK \(http://bulletin.unl.edu/courses/ANTH/432\)](http://bulletin.unl.edu/courses/ANTH/432)**Prereqs:****12 hrs ANTH.**

Current concepts and theories used in archaeology to interpret the archaeological record.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Archaeology

ANTH

433/833**North American Archaeology**[LINK \(http://bulletin.unl.edu/courses/ANTH/433\)](http://bulletin.unl.edu/courses/ANTH/433)**Prereqs:****9 hrs ANTH including ANTH 232** (<http://bulletin.unl.edu/courses/ANTH/232>)

An areal survey of North American archaeology, methodology, history, and current trends of research. North American prehistory from earliest occupations to The Contact Period.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷
Groups:	Archaeology

ANTH

434/834**Introduction to Great Plains Archaeology**[LINK \(http://bulletin.unl.edu/courses/ANTH/434\)](http://bulletin.unl.edu/courses/ANTH/434)**Prereqs:****9 hrs ANTH including ANTH 232** (<http://bulletin.unl.edu/courses/ANTH/232>).

Introduction to the history of archaeological research, taxonomic issues, cultural sequences, and current research topics within the Great Plains area of North America.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Archaeology

ANTH

435/835**Introduction to Heritage Management Archaeology**[LINK \(http://bulletin.unl.edu/courses/ANTH/435\)](http://bulletin.unl.edu/courses/ANTH/435)**Prereqs:****ANTH 232** (<http://bulletin.unl.edu/courses/ANTH/232>).

Credit Hours:	3
Course Format:	Lecture 3

Introduction to the nature and purpose of historic preservation as it pertains to resource management and archaeological research. Legislation that forms the basis for: cultural resource management principles; integration of state programs; and archaeological contractors; within the overall framework of land modification planning.

Course Delivery: Classroom

Groups: Archaeology

ANTH **The Ancient Maya**

436/836

Crosslisted as *LAMS 436*

[LINK \(http://bulletin.unl.edu/courses/ANTH/436\)](http://bulletin.unl.edu/courses/ANTH/436)

Introduction to the prehistory of the Maya region and its periphery. Features of the Ancient Maya political, economic, religious, gender and material structures. Main substantive, theoretical and political debates in Mesoamerican scholarship. Interdisciplinary research and the types of methods used to create knowledge about Maya civilization.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Archaeology

ANTH **Borders and Frontiers**

437/837

[LINK \(http://bulletin.unl.edu/courses/ANTH/437\)](http://bulletin.unl.edu/courses/ANTH/437)

Social and spatial processes of borders and frontiers through historical and contemporary articulations between local, national, and global orders. Commonalities of frontier and border experiences worldwide. Frontiers in the North American and global experience, border formation and maintenance case studies, contemporary issues of globalization, indigenous peoples, conflict and/or cooperation, natural resources, and ethnic identity.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH **Topics in Old World Prehistory**

438/838

Crosslisted as *CLAS 438/838*

[LINK \(http://bulletin.unl.edu/courses/ANTH/438\)](http://bulletin.unl.edu/courses/ANTH/438)

Prereqs:
[ANTH 242 \(http://bulletin.unl.edu/courses/ANTH/242\)](http://bulletin.unl.edu/courses/ANTH/242) or equivalent.

Topics drawn from the wide breadth of Old World prehistory. Archaeological data relevant to selected theoretical or topical problems.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Archaeology

ANTH **Archaeology of Preindustrial Civilizations**

439/839

[LINK \(http://bulletin.unl.edu/courses/ANTH/439\)](http://bulletin.unl.edu/courses/ANTH/439)

Prereqs:
12 hrs ANTH.

Development and organizational variability of past preindustrial civilizations. State formation and their evaluation through use of the archaeological record. General archaeological and anthropological problems posed by complex societies. Data bases from preindustrial civilizations: Mesopotamia; Africa; Egypt; India; China; Japan; Polynesia; Mexico; and Peru.

Credit Hours: 3

Course Delivery: Classroom

Groups: Archaeology

ANTH **Human Variation**

442/842

[LINK \(http://bulletin.unl.edu/courses/ANTH/442\)](http://bulletin.unl.edu/courses/ANTH/442)

Biological variation of modern humans worldwide through time and space. Standard measurements of phenotypic, e.g. elementary anthropometry. Biological adaptation to environment using recent theoretical perspectives.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

ACE Outcomes: 9[?], 10[?]

Groups: Biological Anthropology

ANTH

Human Growth and Development[LINK \(http://bulletin.unl.edu/courses/ANTH/448\)](http://bulletin.unl.edu/courses/ANTH/448)**448/848**Crosslisted as *BIOS 448/848***Prereqs:**

[ANTH 242 \(http://bulletin.unl.edu/courses/ANTH/242\)](http://bulletin.unl.edu/courses/ANTH/242) and [242L \(http://bulletin.unl.edu/courses/ANTH/242L\)](http://bulletin.unl.edu/courses/ANTH/242L), or [BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [101L \(http://bulletin.unl.edu/courses/BIOS/101L\)](http://bulletin.unl.edu/courses/BIOS/101L).

Biological diversity from an evolutionary perspective. The history of the study of human physical growth and biological principles of growth. Genetic, epigenetic and hormonal effects on human and other mammal growth patterns, and environmental factors that influence growth. Effects of nutrition, disease, socio-economic status, pollution, etc. Unique features of human growth in its various stages. How anthropologists interpret variation in growth patterns among human populations and the possible adaptive significance of this variation.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Biological Anthropology

ANTH

Contemporary Issues of Indigenous Peoples in North America[LINK \(http://bulletin.unl.edu/courses/ANTH/451\)](http://bulletin.unl.edu/courses/ANTH/451)**451/851**Crosslisted as *ETHN 451***Prereqs:**

[ANTH 351 \(http://bulletin.unl.edu/courses/ANTH/351\)](http://bulletin.unl.edu/courses/ANTH/351) or [352 \(http://bulletin.unl.edu/courses/ANTH/352\)](http://bulletin.unl.edu/courses/ANTH/352).

Political, economic, and social issues concerning indigenous peoples in North America.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ²
Groups:	Cultural Anthropology

ANTH

Ethnographic Field School[LINK \(http://bulletin.unl.edu/courses/ANTH/454\)](http://bulletin.unl.edu/courses/ANTH/454)**454/854****Prereqs:**

Permission of instructor.

Advanced comparative study of the contemporary populations in a selected area of North America (occasionally outside of the USA) that may combine the traditional survey of ethnographic literature with personal observation, participation, and experiential learning activities in rural, urban, or traditional settings. The ethnographic focus (e.g., Native Americans, recent immigrants to the USA, historic practices) changes depending on research opportunities.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Field
Course Delivery:	Classroom
Groups:	Cultural Anthropology

ANTH

Belief Systems in Anthropological Perspective[LINK \(http://bulletin.unl.edu/courses/ANTH/472\)](http://bulletin.unl.edu/courses/ANTH/472)**472/872****Prereqs:**

12 hrs anthropology.

Cross-cultural examination of the structure, form, and functions of belief systems. Emphasis on the interrelationship between the ideological subsystem of a culture and its social, political, and economic organization. Primitive and contemporary societies.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Cultural Anthropology

ANTH

Ecological Anthropology[LINK \(http://bulletin.unl.edu/courses/ANTH/473\)](http://bulletin.unl.edu/courses/ANTH/473)**473/873**Crosslisted as *NRES 873*

Human adaptive systems and their ecological contexts. The dynamic inter-

Credit Hours:	3
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relationships between subsistence, technology, social behavior, human demography, and ecological variability.

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH

Applied and Development Anthropology

[LINK \(http://bulletin.unl.edu/courses/ANTH/474\)](http://bulletin.unl.edu/courses/ANTH/474)

474/874

Prereqs:

[ANTH 212 \(http://bulletin.unl.edu/courses/ANTH/212\)](http://bulletin.unl.edu/courses/ANTH/212)

Efforts by anthropologists and other trained specialists to influence the process of development and socioeconomic change in the modern world.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

ACE Outcomes: 6[?]

Groups: Cultural Anthropology

ANTH

Primitive Technology

[LINK \(http://bulletin.unl.edu/courses/ANTH/475\)](http://bulletin.unl.edu/courses/ANTH/475)

475/875

Prereqs:

9 hrs ANTH.

Survey of the major technologies and industrial complexes of the prehistoric and primitive worlds. Through examination of artifacts, gain familiarity with the ways preindustrial people have manipulated the environment. Develop skills necessary to analyze technology within its cultural setting.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH

Human Rights, Environment, and Development

[LINK \(http://bulletin.unl.edu/courses/ANTH/476\)](http://bulletin.unl.edu/courses/ANTH/476)

476/876

Prereqs:

[ANTH 212 \(http://bulletin.unl.edu/courses/ANTH/212\)](http://bulletin.unl.edu/courses/ANTH/212)

Human rights from an anthropological perspective. International human rights, development, and the environment; Western and non-Western perspectives on human rights; individual rights and collective (group) rights; social, economic, and cultural rights; women's rights; gay rights; indigenous peoples and minority groups' rights; and planetary (environmental) rights. Rights to food, culture, development, and a healthy ecosystem.

Credit Hours: 3

Course Format: Lab 3

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH

Hunters-Gatherers

[LINK \(http://bulletin.unl.edu/courses/ANTH/477\)](http://bulletin.unl.edu/courses/ANTH/477)

477/877

Prereqs:

9 hrs ANTH including [ANTH 212 \(http://bulletin.unl.edu/courses/ANTH/212\)](http://bulletin.unl.edu/courses/ANTH/212).

Survey of hunter-gatherer society and its ecological and social adaptations. Hunters-gatherers and their important role in human history and evolution.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Cultural Anthropology

ANTH

Pro-seminar in Latin American Studies

[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)

478/878

Crosslisted as *HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878*

Prereqs:

Junior standing and permission.

Credit Hours: 3

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Max credits per degree: 6

Course Delivery: Classroom

Groups: Integrative Courses, Research and Reading

ANTH Landscape Archaeology

481/881

[LINK \(http://bulletin.unl.edu/courses/ANTH/481\)](http://bulletin.unl.edu/courses/ANTH/481)

Survey of theory, method, and practice in describing and interpreting archaeological landscapes.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

ANTH Research Methods in Anthropology

482/882

[LINK \(http://bulletin.unl.edu/courses/ANTH/482\)](http://bulletin.unl.edu/courses/ANTH/482)

Prereqs:
Permission.

Is strongly recommended to graduate students in all subfields before starting thesis work.

Introduces advanced students to practical and theoretical issues involved in designing and undertaking anthropological research. The logic and organization of research emphasized.

Credit Hours: 3

Course Delivery: Classroom

Groups: Integrative Courses, Research and Reading

ANTH Advanced Field Methods

483/883

[LINK \(http://bulletin.unl.edu/courses/ANTH/483\)](http://bulletin.unl.edu/courses/ANTH/483)

Prereqs:
Permission.

Preparation for fieldwork through study of the philosophical and practical problems of anthropological field research. When appropriate, small-scale fieldwork exercises are planned, executed, and analyzed.

Credit Hours: 3

Course Delivery: Classroom

Groups: Laboratory and Field Training

ANTH Quantitative Methods in Anthropology

484/884

[LINK \(http://bulletin.unl.edu/courses/ANTH/484\)](http://bulletin.unl.edu/courses/ANTH/484)

Prereqs:
9 hrs ANTH; STAT 218 (<http://bulletin.unl.edu/courses/STAT/218>) or equivalent.

Collection, management, and analysis of quantitative anthropological data. Methods of exploratory and confirmatory data analysis. Computer-assisted analysis.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Laboratory and Field Training

ANTH Pro-seminar in Anthropology

485/885

[LINK \(http://bulletin.unl.edu/courses/ANTH/485\)](http://bulletin.unl.edu/courses/ANTH/485)

Prereqs:
Permission.

Credit Hours: 1-3

Course Delivery: Classroom

Integrative

Groups:	Courses, Research and Reading
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ANTH
486/886

Community-Based Research and Evaluation

[LINK \(http://bulletin.unl.edu/courses/ANTH/486\)](http://bulletin.unl.edu/courses/ANTH/486)

Crosslisted as *ETHN 487*

Prereqs:

[ANTH 212 \(http://bulletin.unl.edu/courses/ANTH/212\)](http://bulletin.unl.edu/courses/ANTH/212).

Qualitative ethnographic field and research projects. The observation, documentation, data analysis, and theory behind selected research designs. Community-based organizations, agencies, and development advocacy projects.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Laboratory and Field Training

ANTH
487/887

Analysis of Archaeological Materials

[LINK \(http://bulletin.unl.edu/courses/ANTH/487\)](http://bulletin.unl.edu/courses/ANTH/487)

Prereqs:

[ANTH 232 \(http://bulletin.unl.edu/courses/ANTH/232\)](http://bulletin.unl.edu/courses/ANTH/232).

ANTH 487 (http://bulletin.unl.edu/courses/ANTH/487)/887 (http://bulletin.unl.edu/courses/ANTH/887) may be repeated. Topics vary by semester.

Survey of vocabulary, techniques, and ideas needed to research major materials found in archaeological sites. A. Ceramics (3 cr) B. Lithics (3 cr) D. Archaeofauna (3 cr) E. Historic Material Culture (3 cr)

Credit Hours:	3
Max credits per semester:	6
Max credits per degree:	9
Course Format:	Lab, Lecture
Course Delivery:	Classroom
Groups:	Archaeology

ANTH
488/888

Contentious Issues in Anthropology

[LINK \(http://bulletin.unl.edu/courses/ANTH/488\)](http://bulletin.unl.edu/courses/ANTH/488)

Prereqs:

9 hrs of anthropology beyond [ANTH 110 \(http://bulletin.unl.edu/courses/ANTH/110\)](http://bulletin.unl.edu/courses/ANTH/110).

Recent controversial issues through the integration of biological, cultural, and archaeological branches of anthropology.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

ANTH
490/890

Advanced Field Work

[LINK \(http://bulletin.unl.edu/courses/ANTH/490\)](http://bulletin.unl.edu/courses/ANTH/490)

Prereqs:

[ANTH 290 \(http://bulletin.unl.edu/courses/ANTH/290\)](http://bulletin.unl.edu/courses/ANTH/290) or equivalent.

Credit towards the ANTH major cannot be earned in only one of: [ANTH 290 \(http://bulletin.unl.edu/courses/ANTH/290\)](http://bulletin.unl.edu/courses/ANTH/290) and [490 \(http://bulletin.unl.edu/courses/ANTH/490\)](http://bulletin.unl.edu/courses/ANTH/490).

Further practical experience in field research.

Credit Hours:	1-6
Max credits per semester:	24
Course Format:	Field
Course Delivery:	Classroom
Groups:	Laboratory and Field Training

ANTH
491/891

Advanced Laboratory Work

[LINK \(http://bulletin.unl.edu/courses/ANTH/491\)](http://bulletin.unl.edu/courses/ANTH/491)

Prereqs:

Permission.

Only 3 credit hours of [ANTH 491](http://bulletin.unl.edu/courses/ANTH/491)

Credit Hours:	1-6
Max credits per semester:	6

(<http://bulletin.unl.edu/courses/ANTH/491>) will count toward the major in ANTH. Open only to advanced students wishing to complete a research project they have developed with ANTH faculty guidance.

Max credits per degree:	6
Course Format:	Lab
Course Delivery:	Classroom
Groups:	Laboratory and Field Training

ANTH
495/895

Internship in Anthropology

[LINK \(http://bulletin.unl.edu/courses/ANTH/495\)](http://bulletin.unl.edu/courses/ANTH/495)

Prereqs:
Sophomore standing.

A structured professional experience outside the traditional academic setting designed to allow students to learn and use anthropological skills and knowledge and to develop professional networks. 496–896. Special Readings in Anthropology (1–6 cr)

Credit Hours:	1–6
Max credits per semester:	6
Course Format:	Field
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

ANTH
496/896

Special Readings in Anthropology

[LINK \(http://bulletin.unl.edu/courses/ANTH/496\)](http://bulletin.unl.edu/courses/ANTH/496)

Credit Hours:	N/A
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

ANTH
498/898

Advanced Current Topics in Anthropology

[LINK \(http://bulletin.unl.edu/courses/ANTH/498\)](http://bulletin.unl.edu/courses/ANTH/498)

Prereqs:
Permission.

Seminar on current issues and problems in anthropology.

Credit Hours:	1–6
Max credits per degree:	6
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

ANTH
844

Biology of Human Variation

[LINK \(http://bulletin.unl.edu/courses/ANTH/844\)](http://bulletin.unl.edu/courses/ANTH/844)

Prereqs:
[ANTH 110 \(http://bulletin.unl.edu/courses/ANTH/110\)](http://bulletin.unl.edu/courses/ANTH/110) or permission

Introduction to the scope and meaning of human biological variation with emphasis on present day populations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ANTH

Landscape Archaeology

[LINK \(http://bulletin.unl.edu/courses/ANTH/881\)](http://bulletin.unl.edu/courses/ANTH/881)

881

Survey of theory, method, and practice in describing and interpreting archaeological landscapes.

Credit Hours:	4
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

ANTH
887A

Ceramics

[LINK \(http://bulletin.unl.edu/courses/ANTH/887A\)](http://bulletin.unl.edu/courses/ANTH/887A)

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

ANTH
887B

Lithics

[LINK \(http://bulletin.unl.edu/courses/ANTH/887B\)](http://bulletin.unl.edu/courses/ANTH/887B)

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

ANTH
887D

Archaeofauna

[LINK \(http://bulletin.unl.edu/courses/ANTH/887D\)](http://bulletin.unl.edu/courses/ANTH/887D)

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

ANTH
887E

Historic Material Culture

[LINK \(http://bulletin.unl.edu/courses/ANTH/887E\)](http://bulletin.unl.edu/courses/ANTH/887E)

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

ANTH
894

Internship in Professional Archaeology

[LINK \(http://bulletin.unl.edu/courses/ANTH/894\)](http://bulletin.unl.edu/courses/ANTH/894)

Prereqs:
9 hrs ANTH

Structured professional experience in archaeological research, administration, or curation outside the traditional academic setting.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Field
Campus:	
Course Delivery:	Classroom

ANTH
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/ANTH/899\)](http://bulletin.unl.edu/courses/ANTH/899)

Prereqs:

Credit Hours:	6-9
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Max credits per degree: 9

Campus:

Course Delivery: Classroom

ANTH

915**Seminar in Ethnology**[LINK \(http://bulletin.unl.edu/courses/ANTH/915\)](http://bulletin.unl.edu/courses/ANTH/915)

Intensive study of theory and method in ethnology, with special attention to current research literature.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ANTH

935**Seminar in Archaeology**[LINK \(http://bulletin.unl.edu/courses/ANTH/935\)](http://bulletin.unl.edu/courses/ANTH/935)

Theory and method in prehistory and historic archaeology. Current research literature in the field.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ANTH

945**Seminar in Physical Anthropology**[LINK \(http://bulletin.unl.edu/courses/ANTH/945\)](http://bulletin.unl.edu/courses/ANTH/945)

Intensive study of theory and method in physical anthropology, with special attention to current research literature.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ANTH

994**Seminar in Anthropology and Geography**[LINK \(http://bulletin.unl.edu/courses/ANTH/994\)](http://bulletin.unl.edu/courses/ANTH/994)Crosslisted as *GEOG 994*

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

ANTH

996**Research Other Than Thesis**[LINK \(http://bulletin.unl.edu/courses/ANTH/996\)](http://bulletin.unl.edu/courses/ANTH/996)

Research or reading in selected problems in anthropology, including the preparation of research for publication.

Credit Hours: 1-6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

POLS

466/866**Pro-seminar in International Relations I**[LINK \(http://bulletin.unl.edu/courses/POLS/466\)](http://bulletin.unl.edu/courses/POLS/466)Crosslisted as *HIST 479/879, SOCI 466/866, ANTH 479/879, GEOG 448/848, ECON 466/866, AECN 467*

Prereqs:
Senior standing and permission.

Open to students with an interest in international relations.

Topic varies

Credit Hours: 3

Max credits per degree: 3

Course Delivery: Classroom

Groups: International

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Anthropology). (<http://www.unl.edu/gradstudies/prospective/programs/Anthropology>)

Department of Anthropology Chair: Raymond Hames, Ph.D.

Graduate Committee Chair: Effie Athanassopoulos, Ph.D.

The department offers graduate courses leading to the degree of master of arts. The requirements for admission, for Candidacy, and for courses and thesis are those established and maintained by the Graduate College. Applicants should accompany their application for admission with a statement of educational goals and their scores from the general Graduate Record Examination.

With the exception of students in the Professional Archaeology Specialization, all graduate students will be required to take three core courses in the Department of Anthropology, one from each sub-discipline. Cultural Anthropology: ANTH 812, 817 or 877; Archaeology: ANTH 831 or 832; Biological Anthropology: ANTH 830 or 842. If a student has taken any of these courses at the 400 level (ANTH 412, 417, 430, 431, 432, 442, 477) and they were taken within five years prior to the student's admission to the Graduate College, they need not be repeated at the graduate level.

Upon admission to this program, all graduate students are required to have a course in statistics. If a statistics course has not been taken prior to admission, this will be regarded as a deficiency, which will have to be remediated.

Any class taken to remediate a deficiency will not count as part of the credits required for the master of arts in anthropology.

Program Assessment

In order to assist the department in evaluating the effectiveness of its program, majors will be required at the end of their graduate program:

1. to complete an oral examination which focuses on the breadth of the field as well as on the student's field of specialization.
2. to complete a written exit survey, submitted anonymously.

The graduate adviser will inform students of the scheduling and format of assessment activities.

These assessment activities will in no way affect a student's GPA or graduation.

Specializations available:

Environmental Studies; Great Plains Studies; Professional Archaeology; Women's and Gender Studies

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Anthropology). (<http://www.unl.edu/gradstudies/prospective/programs/Anthropology>)

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Applied Science

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Courses for AGRI (AGRI)

AGRI 810	Research Strategies in Agriculture	LINK (http://bulletin.unl.edu/courses/AGRI/810)
<p>Practical topics related to the planning, organization, administration, financing and reporting of research in agriculture.</p>		<p>Credit Hours: 1</p> <p>Campus:</p> <p>Course Delivery: Classroom</p>
AGRI 888	Teaching Undergraduate Science	LINK (http://bulletin.unl.edu/courses/AGRI/888)
<p>The dynamics of undergraduate student learning. Begin to develop the reflective practice of progressive instructional improvement. Interpreting</p>		<p>Credit Hours: 1</p>

improved educational outcomes in terms of the ability of the instructor to manipulate undergraduate student interactions with instructional materials in an active learning environment.

Campus:

Course Delivery: Classroom

ENTO
826

Scientific Illustration

Crosslisted as *AGRI 826*

[LINK \(http://bulletin.unl.edu/courses/ENTO/826\)](http://bulletin.unl.edu/courses/ENTO/826)

Prereqs:

12 hrs agricultural and/or biological sciences.

*ENTO *826 is offered spring semester of even-numbered calendar years.*

Prepare scientifically accurate, high quality illustrations and graphics for the teaching, presentation, and publication of scientific information. Drawing techniques, drafting, copyright, and publication and presentation of scientific art work.

Credit Hours: 3

Course Format: Independent Study

Course Delivery: Web

HORT
897

Master of Applied Science Project

Crosslisted as *AGRI 897, AGRO 897, NRES 897*

[LINK \(http://bulletin.unl.edu/courses/HORT/897\)](http://bulletin.unl.edu/courses/HORT/897)

Prereqs:

Admission to Master of Applied Science degree program

Project activity for the Master of Applied Science degree.

Design, develop and complete a project that requires synthesis of the course topics covered in the primary area of emphasis.

Credit Hours: 1-6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

Q

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/AppliedScience). (<http://www.unl.edu/gradstudies/prospective/programs/AppliedScience>)

Program Coordinator: John Markwell, Ph.D.

Graduate Committee: Balschweid, Gosselin, Heng-Moss, Johnson, Jones, Wehling, Weissling, Yuen

The Master of Applied Science is an interdisciplinary degree program and students may use distance courses from a variety of disciplines. The description of each course may be found by consulting the section of the Graduate Bulletin for that discipline's degree program. Students in the Master of Applied Science program should consult with their adviser and the Graduate Program Chair in planning for courses to take and the schedule for course offerings.

Courses from Agricultural Economics

- AECN 883, Ecological Economics, 1cr
- AECN 896, Strategic Issues in Business, 1 cr
- AECN 896K, Orientation Community Development, 1 cr
- AECN 896L, Community Development I, 1 cr
- AECN 896M, Special Topics, 1 cr
- AECN 896N, Community & Nat Res Mgmt, 1 cr
- AECN 896P, Community Develop II, 1 cr
- AECN 896Q, Impact Analysis, 1 cr
- AECN 896R, Cost-Benefit Analysis, 1 cr
- AECN 896T, Local Community Economic Analysis, 1 cr
- AECN/EDAD 896/890, Economics of Academic Employment, 3 cr

Courses from Agriculture, Agronomy & Horticulture

- AGRI/AGRO/HORT 897, Master of Agriculture Project, 1-6 cr
- AGRO 811, Crop Genetic Engineering, 1 cr
- AGRO 812, Crop and Weed Genetics, 1 cr
- AGRO/HORT/TLMT 814, Trufgrass Disease Management, 1 cr
- AGRO/ENTO 815A, Self Pollinated Crop Breeding, 1 cr
- AGRO/ENTO 815B, Germplasm & Genes, 1 cr
- AGRO/ENTO 815D, Cross Pollinated Crop Breeding, 1 cr
- AGO/BIOC 818, Agricultural Biochemistry, 2 cr
- AGRO 822, Integrated Weed Management, 1 cr
- AGRO 823, Herbicide Action in Plants, 1 cr
- AGRO 824, Plant Nutrition & Nutrient Management, 3 cr
- AGRO 831, Spatial Variability in Soils, 1 cr

- AGRO 837, Animal, Food and Industrial Uses of Grain, 2 cr
- AGRO 838, Producing Grain for Animals and Industry, 1 cr
- AGRO 846, Forage Quality, 3 cr
- AGRO 851, Grassland Plant Identification, 2 cr
- AGRO/HORT/TLMT 880, Turf & Landscape Modified Rootzones, 1 cr
- AGRO 896, Advanced Plant Breeding Topics, 1 cr
- AGRO 896, Independent Study, 1–6 cr
- AGRO 896, Teaching Biotechnology, 3 cr
- AGRO 896, Teaching Plant Science, 3 cr
- *AGRO 896A, Sprayer & Spreader Technology, 1 cr
- AGRO 896, Turf and Landscape Weed Management, 1 cr
- AGRO 896, Pest Resistance Management, 2 cr
- AGRO 896, Crop Genetics
- AGRO/ASCI 896, Forage Quality, 3 cr
- HORT 896, Herbaceous Perennials and Grasses, 1–3 cr

*Course begins with a mandatory two-day workshop

Courses from Agricultural Leadership, Education and Communication

- ALEC 410/810, Environmental Leadership, 3 cr
- ALEC 801, Theoretical Foundation of Leadership, 3 cr
- ALEC 804, Problems of Beginning Ag Teachers, 3 cr
- ALEC 805, College Teaching Methods, 3 cr
- ALEC 806, Introduction to Distance Education, 3 cr
- ALEC 807, Supervisory Leadership, 3 cr
- ALEC 816, Management Strategies in Dist Education, 3 cr
- ALEC 826, Program Evaluation, 3 cr
- ALEC 845, Research in Leadership Education, 3 cr
- ALEC 800, Program Planning Overview, 3 cr
- ALEC 893, Technical Ag Workshop, 1–6 cr
- ALEC 896, Independent Study, 1–3 cr
- ALEC 906, Theoretical Foundation of Dist Education, 3 cr
- ALEC 995, Leadership Studies, 3 cr
- ALEC 995, Doctoral Seminar, 3 cr
- ALEC 996, Non-Thesis Research, 2–6 cr

Course from Animal Science

- ASCI 422/822, Advanced Feeding and Feed Formulation, 3 cr

Courses from Entomology

- ENTO 402/802, Aquatic Insects, 2 cr
- ENTO 403/803, Management of Horticultural Insects, 3 cr
- ENTO 406/806, Insect Ecology, 3 cr
- ENTO 407/807, Urban & Industrial Entomology, 3 cr
- ENTO 412/812, Entomology & Pest Mgmt, 3 cr
- ENTO/FORS 414/814, Forensic Entomology, 3 cr
- ENTO 415/815, Medical Entomology, 3 cr
- ENTO 496/896, Insect Physiology, 3 cr
- ENTO 496/896, Plant Resistance Abiotic & Biotic Stressors, 3 cr
- ENTO 496/896, Invasive Pests & International Trade, 3 cr
- ENTO 810, Insects for Educators, 3 cr
- ENTO/PLPT 813, Biological Control, 3 cr
- ENTO 818, Insect Identification & Natural History, 4 cr
- ENTO 819, Insect Behavior, 3 cr
- ENTO 820, Insecticide Toxicology, 3 cr
- ENTO 888, MS Degree Project, 4 cr
- ENTO 896, Independent Study, 1–6 cr
- ENTO/AGRI 826, Scientific Illustration, 3 cr
- ENTO 896, International Plant Protection, 3 cr
- ENTO 825, Management Agronomic Insects, 3 cr
- ENTO 991, Advanced Topics in Entomology, 1–5 cr
- ENTO 991B, Presentation Methods, 2 cr

Courses from Food Science & Technology

- FDST 801, Teaching Applications of Food Science, 3 cr
- FDST 805, Food Microbiology, 3 cr
- FDST 848, Food Chemistry, 3 cr
- FDST 855, Microbiology of Fermented Foods, 2 cr

Courses from Forensic Science

- FORS 802, Principles of Forensic Photography, 1 cr
- FORS 803, Advanced Forensic Photography, 1 cr
- FORS 804, Bloodstains as Evidence, 1 cr
- FORS 806, Crime Scene Management, 1 cr

- FORS 807, Forensic DNA Analysis, 3 cr
- FORS 820, Forensic Science and Criminal Investigation, 3 cr

Courses from Mechanized Systems Management

- MYSM 452, Irrigation Systems Management, 3 cr

Courses from Natural Resource Sciences

- NRES 809, Laboratory Earth: Earth and Its Systems, 3 cr
- NRES 814, Laboratory Earth: Earth's Natural Resource Systems, 3 cr
- NRES 822, Laboratory Earth: Earth's Changing Systems, 3 cr
- NRES 896, Urban Wildlife Damage Management, 3 cr
- NRES 896A, Laboratory Earth, 3 cr
- NRES 898, Laboratory Earth: Human Dimensions of Climate Science

Course from Nutrition and Health Sciences

- NUTR 859, Nutrition: Focus on Life Stages, 3 cr

Courses from Veterinary and Biomedical Sciences

- VBMS 811, Introduction to Veterinary Epidemiology, 2 cr
- VBMS 847A, Interdisciplinary Concepts in Beef Production, 3 cr
- VBMS 909, Seminar, 1 cr
- VBMS 998, Population Approaches to Medicine, 2 cr
- VBMS 951, Advanced Molecular Infectious Disease, 3 cr

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Architecture

Subject Areas

- [Architecture \(ARCH\) \(#ARCH\)](#)
- [Interior Design \(IDES\) \(#IDES\)](#)

Ω

Courses for ARCH (ARCH)

ARCH 340/540	Architectural History and Theory I	LINK (http://bulletin.unl.edu/courses/ARCH/340)						
<p>Prereqs: For undergraduate: Admission to the BSD program or permission.</p> <p><i>For student in the professional program: Admission to the Professional Program in Architecture or permission.</i></p> <p>Selected aspects of the history and theory of fifteenth- through eighteenth-century architecture emphasizing the architect as a creative personality.</p>		<table border="1"> <tr> <td>Credit Hours:</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Course Format:</td> <td style="text-align: right;">Lecture 3</td> </tr> <tr> <td>Course Delivery:</td> <td style="text-align: right;">Classroom</td> </tr> </table>	Credit Hours:	3	Course Format:	Lecture 3	Course Delivery:	Classroom
Credit Hours:	3							
Course Format:	Lecture 3							
Course Delivery:	Classroom							

ARCH 347/547	African Architecture Crosslisted as <i>ETHN 347, AHIS 366</i>	LINK (http://bulletin.unl.edu/courses/ARCH/347)						
<p>Prereqs: Sophomore standing.</p> <p>Survey of the architectural traditions of the African continent, from pre-historic times to the present day. Buildings-famous and typical-theories, and approaches that are appropriate to the specific cultural environments.</p>		<table border="1"> <tr> <td>Credit Hours:</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Course Format:</td> <td style="text-align: right;">Lecture</td> </tr> <tr> <td>Course Delivery:</td> <td style="text-align: right;">Classroom</td> </tr> </table>	Credit Hours:	3	Course Format:	Lecture	Course Delivery:	Classroom
Credit Hours:	3							
Course Format:	Lecture							
Course Delivery:	Classroom							

ARCH 417/617/817	Product Design Crosslisted as <i>IDES 417</i>	LINK (http://bulletin.unl.edu/courses/ARCH/417)		
<p>Prereqs:</p>		<table border="1"> <tr> <td>Credit Hours:</td> <td style="text-align: right;">3</td> </tr> </table>	Credit Hours:	3
Credit Hours:	3			

Junior standing or permission.

Course Delivery: Classroom

Practical investigation in the use of materials and their fabrication process with emphasis on wood, plastic, and steel. Generate a design from conception to a finished product.

ARCH Fabrication and Construction Team

[LINK \(http://bulletin.unl.edu/courses/ARCH/418\)](http://bulletin.unl.edu/courses/ARCH/418)

418/518/818

Prereqs: Permission.

The shifting relationship between conceiving and making through hands-on, collaborative experience with actual design-construct projects in which students play a decisive role in all aspects of research, design and construction of the commission.

Credit Hours: 1-6

Course Format: Lecture, Lab

Course Delivery: Classroom

ARCH Advanced Architectural Drawing

[LINK \(http://bulletin.unl.edu/courses/ARCH/424\)](http://bulletin.unl.edu/courses/ARCH/424)

424/524/824

Prereqs: For undergraduate: Admission to the BSD program or permission. For student in the professional program: Admission to the Professional Program in Architecture or permission.

Advanced work in architectural drawing. Discourse about various drawing problems encountered in design process and practice.

Credit Hours: 2

Course Format: Studio

Course Delivery: Classroom

ARCH Computer-aided Drawing/Design (CADD) in Architecture

[LINK \(http://bulletin.unl.edu/courses/ARCH/425\)](http://bulletin.unl.edu/courses/ARCH/425)

425/525/825

Prereqs: Permission.

Application of advanced CADD systems, technology, and techniques to the solution of problems in architecture. Use of sophisticated software and hardware in drawing management with emphasis on its application to design, graphics, and professional drawings. Potentials and limitations of CADD systems in the professional practice of architecture.

Credit Hours: 3

Course Format: Lecture 1, Studio 2

Course Delivery: Classroom

ARCH Advanced Lighting Design

[LINK \(http://bulletin.unl.edu/courses/ARCH/435\)](http://bulletin.unl.edu/courses/ARCH/435)

435/535/835

Prereqs: [ARCH 333 \(http://bulletin.unl.edu/courses/ARCH/333\)](http://bulletin.unl.edu/courses/ARCH/333) or [IDES 335 \(http://bulletin.unl.edu/courses/IDES/335\)](http://bulletin.unl.edu/courses/IDES/335) or by permission.

Translation of physical measurements of sensory stimuli into architectural-spatial relationships with respect to artificial and natural illumination; advanced lighting theories and techniques through lecture, discussion, simulation, and direct application to spatial design/development.

Credit Hours: 3

Course Format: Lecture 1, Lab 4

Course Delivery: Classroom

ARCH Architectural Acoustics

[LINK \(http://bulletin.unl.edu/courses/ARCH/437\)](http://bulletin.unl.edu/courses/ARCH/437)

437/537/837

Prereqs: [ARCH 310 \(http://bulletin.unl.edu/courses/ARCH/310\)](http://bulletin.unl.edu/courses/ARCH/310), [411 \(http://bulletin.unl.edu/courses/ARCH/411\)](http://bulletin.unl.edu/courses/ARCH/411), [333 \(http://bulletin.unl.edu/courses/ARCH/333\)](http://bulletin.unl.edu/courses/ARCH/333).

Credit Hours: 2

Course Format: Lecture 2

Course Delivery: Classroom

Advanced acoustic design. Translation of physical measurements of sensory stimuli into architectural–spatial relationships with respect to internally and externally generated sound.

ARCH

Architectural History and Theory II

[LINK \(http://bulletin.unl.edu/courses/ARCH/441\)](http://bulletin.unl.edu/courses/ARCH/441)

441/541/841

Prereqs:
Admission to the BSD Program or permission.

This course is a prerequisite for: [ARCH 442 \(http://bulletin.unl.edu/courses/ARCH/442\)](http://bulletin.unl.edu/courses/ARCH/442),
[ARCH 451 \(http://bulletin.unl.edu/courses/ARCH/451\)](http://bulletin.unl.edu/courses/ARCH/451)

Selected aspects of the history and theory of nineteenth– and early twentieth–century architecture emphasizing the intellectual impact and material expression of cultural change.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH

Contemporary Architecture

[LINK \(http://bulletin.unl.edu/courses/ARCH/442\)](http://bulletin.unl.edu/courses/ARCH/442)

442/542/842

Prereqs:
[ARCH 441 \(http://bulletin.unl.edu/courses/ARCH/441\)](http://bulletin.unl.edu/courses/ARCH/441) or permission.

Selected aspects of contemporary architectural theory and design from the mid–twentieth century to the present emphasizing the diversity of current thought and practice.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH

Theory and Criticism in Architecture Since 1945

[LINK \(http://bulletin.unl.edu/courses/ARCH/446\)](http://bulletin.unl.edu/courses/ARCH/446)

446/546/846

Prereqs:
[ARCH 341 \(http://bulletin.unl.edu/courses/ARCH/341\)](http://bulletin.unl.edu/courses/ARCH/341).

[ARCH 446 \(http://bulletin.unl.edu/courses/ARCH/446\)](http://bulletin.unl.edu/courses/ARCH/446)/546
 [\(http://bulletin.unl.edu/courses/ARCH/546\)](http://bulletin.unl.edu/courses/ARCH/546)/846
 [\(http://bulletin.unl.edu/courses/ARCH/846\)](http://bulletin.unl.edu/courses/ARCH/846) is "Letter grade only."

Theory and criticism in architecture since 1945 as related to contemporary American society and culture, with reference to those paralleled in other humanities disciplines, including arts, linguistics, literary criticism, and philosophy.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH

Architecture of the Great Plains

[LINK \(http://bulletin.unl.edu/courses/ARCH/448\)](http://bulletin.unl.edu/courses/ARCH/448)

448/548/848

Prereqs:
Admission into Third Year or permission.

Selected aspects of the history of architecture on the Great Plains with emphasis on the architecture of Nebraska built during the nineteenth and twentieth centuries.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH

Survey of Asian Architecture

[LINK \(http://bulletin.unl.edu/courses/ARCH/450\)](http://bulletin.unl.edu/courses/ARCH/450)

450/550/850

Prereqs:
Senior or graduate standing.

Comparative study of the architecture of Asian cultures with emphasis on

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

pre-eighteenth century India, China, and Japan.

ARCH

451/851

Latin American Architecture

[LINK \(http://bulletin.unl.edu/courses/ARCH/451\)](http://bulletin.unl.edu/courses/ARCH/451)

Prereqs:

[ARCH 441 \(http://bulletin.unl.edu/courses/ARCH/441\)](http://bulletin.unl.edu/courses/ARCH/441)/[541 \(http://bulletin.unl.edu/courses/ARCH/541\)](http://bulletin.unl.edu/courses/ARCH/541)/[841 \(http://bulletin.unl.edu/courses/ARCH/841\)](http://bulletin.unl.edu/courses/ARCH/841).

[ARCH 451 \(http://bulletin.unl.edu/courses/ARCH/451\)](http://bulletin.unl.edu/courses/ARCH/451)/[851 \(http://bulletin.unl.edu/courses/ARCH/851\)](http://bulletin.unl.edu/courses/ARCH/851) requires no previous study of Latin America.

Introduction to Latin American architecture. 20th century Latin American architecture. The two main factors that have shaped Latin American architecture: cultural context and ecological context. The environment (in a broad cultural frame) and architecture as a cultural artifact.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH

456/556/856

Behavioral and Social Factors in Environmental Design

[LINK \(http://bulletin.unl.edu/courses/ARCH/456\)](http://bulletin.unl.edu/courses/ARCH/456)

Crosslisted as *IDES 456/856*

Survey of theory, methods, research, and findings from the social and behavioral sciences as they relate to architectural design, interior design and regional and community planning. Application of principles to the development of architectural and interiors programs and designs and to the planning process.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH

457/557/857

Housing Issues in Contemporary Society

[LINK \(http://bulletin.unl.edu/courses/ARCH/457\)](http://bulletin.unl.edu/courses/ARCH/457)

Prereqs:

Admission into Third Year or permission.

Survey of social, psychological, political and economic research regarding housing in today's global economy. Focuses on how the research can impact the practice of design at the interior and architectural as well as the community and regional planning scale.

Credit Hours:	2
Course Delivery:	Classroom

ARCH

458/558/858

The Changing Workplace

[LINK \(http://bulletin.unl.edu/courses/ARCH/458\)](http://bulletin.unl.edu/courses/ARCH/458)

Crosslisted as *IDES 458/858*

Survey and integration of theory, methods, research and findings from the social, behavioral, and managerial sciences as they relate to the design of work environments. Factors effecting change in the contemporary workplace.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH

463/563/863

Architectural Preservation

[LINK \(http://bulletin.unl.edu/courses/ARCH/463\)](http://bulletin.unl.edu/courses/ARCH/463)

Introduction to the principles, processes, and practice of architectural preservation and the conservation of historic districts.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

ARCH

Community Design Center

[LINK \(http://bulletin.unl.edu/courses/ARCH/466\)](http://bulletin.unl.edu/courses/ARCH/466)

466/566/866

Prereqs:
Permission.

Community-oriented design studio. The design process and its relationship to the environmental development process.

Credit Hours:	3-6
Course Delivery:	Classroom

ARCH **Women in Design**

481/581/881

Crosslisted as *IDES 481*

[LINK \(http://bulletin.unl.edu/courses/ARCH/481\)](http://bulletin.unl.edu/courses/ARCH/481)

Prereqs:
Admission to the BSD program or permission.

Intensive study of particular historical and contemporary contributions by women to the design professions related to the built environment. Evaluation of design work by and about women seen in their aesthetic and intellectual context. Examinations of the roles and values of women in design and their impact on the assumptions and issues currently held by the profession.

Credit Hours:	3
Course Delivery:	Classroom

ARCH **Advanced Color Theory**

482/582/882

Crosslisted as *IDES 482/882*

[LINK \(http://bulletin.unl.edu/courses/ARCH/482\)](http://bulletin.unl.edu/courses/ARCH/482)

Prereqs:
Admission to the third year in architecture or Interior Design Program; or permission.

Advanced color theories and their application to the Built environment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH **Case Study in the Study and Practice of Architecture**

484/584/884

[LINK \(http://bulletin.unl.edu/courses/ARCH/484\)](http://bulletin.unl.edu/courses/ARCH/484)

Prereqs:
Permission.

A group investigation into a recently completed professional building project. Methodology as prescribed by the American Institute of Architects "Case Study Work Group", and the "Large Firm Roundtable - The Educator/Practitioner Net".

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH **Selected Topics in Architecture**

497/597/697/897

[LINK \(http://bulletin.unl.edu/courses/ARCH/497\)](http://bulletin.unl.edu/courses/ARCH/497)

Prereqs:
Permission.

Group investigation of a topic in architecture originated by the instructor.

Credit Hours:	1-6
Max credits per degree:	24
Course Delivery:	Classroom

ARCH **Problems in Architecture**

498/598/898

[LINK \(http://bulletin.unl.edu/courses/ARCH/498\)](http://bulletin.unl.edu/courses/ARCH/498)

Prereqs:
Permission.

Individual investigation of a topic in architecture.

Credit Hours:	1-6
Max credits per degree:	9
Course Delivery:	Classroom

ARCH

Advanced Architectural Design I[LINK \(http://bulletin.unl.edu/courses/ARCH/510\)](http://bulletin.unl.edu/courses/ARCH/510)**510/810****Prereqs:**
5th year standing, professional programThis course is a prerequisite for: [ARCH 613 \(http://bulletin.unl.edu/courses/ARCH/613\)](http://bulletin.unl.edu/courses/ARCH/613)

Vertically integrated 5th and 6th year studio.

Credit Hours:	5
Course Format:	Studio
Campus:	
Course Delivery:	Classroom

ARCH

Advanced Architectural Design II[LINK \(http://bulletin.unl.edu/courses/ARCH/511\)](http://bulletin.unl.edu/courses/ARCH/511)**511/811****Prereqs:**
5th year standing, professional programThis course is a prerequisite for: [ARCH 699 \(http://bulletin.unl.edu/courses/ARCH/699\)](http://bulletin.unl.edu/courses/ARCH/699)

Vertically integrated 5th and 6th year studio.

Credit Hours:	5
Course Format:	Studio
Campus:	
Course Delivery:	Classroom

ARCH

Modern Craft[LINK \(http://bulletin.unl.edu/courses/ARCH/516\)](http://bulletin.unl.edu/courses/ARCH/516)**516/816****Prereqs:**
Permission.

[ARCH 516 \(http://bulletin.unl.edu/courses/ARCH/516/816\)](http://bulletin.unl.edu/courses/ARCH/516/816) (<http://bulletin.unl.edu/courses/ARCH/816>). **Modern Craft.** (3 Credit Hours)
Seminar / Lab course that explores the role of Craft in the 21st century. Lectures, reading discussions and lab activities are anchored in the study of Craft, both as its own discipline, and its application to others. Of particular interest shall be aesthetic issues and production methodologies for new craft objects requiring the deliberate manipulation of materials such as wood, metal, plastics and fabrics at a 1:1 scale. Students shall discuss readings, and design / assemble a series of craft objects that escalate in both physical scale and functional performance.

Credit Hours:	3
Course Format:	Lab 3, Lecture 1.5
Course Delivery:	Classroom

ARCH

Digital Fabrication[LINK \(http://bulletin.unl.edu/courses/ARCH/526\)](http://bulletin.unl.edu/courses/ARCH/526)**526/826****Prereqs:**
Permission.

Examination of the theory and application of the file-to-factory design process. Exploratory case study projects include small fabricated architectural models of forms, surface and structure.

Credit Hours:	3
Course Format:	Lab 4, Lecture 1
Course Delivery:	Classroom

ARCH

Advanced Elements of Building Construction[LINK \(http://bulletin.unl.edu/courses/ARCH/530\)](http://bulletin.unl.edu/courses/ARCH/530)**530/830****Prereqs:**
Admission to the fifth year or permissionThis course is a prerequisite for: [ARCH 533 \(http://bulletin.unl.edu/courses/ARCH/533\)](http://bulletin.unl.edu/courses/ARCH/533)

Common building systems and their components. The vocabulary of construction, in both verbal and graphic terms, that can be immediately applied in the design studio.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ARCH

Architectural Structures III[LINK \(http://bulletin.unl.edu/courses/ARCH/531\)](http://bulletin.unl.edu/courses/ARCH/531)**531/831****Prereqs:****ARCH 411** (<http://bulletin.unl.edu/courses/ARCH/411>)

Analysis and design of structural systems, including mass, vector systems, rectangular and curvilinear frames, surface systems, seismic and wind forces, and current structural developments. Individual investigations and model testing.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

ARCH

Production Drawings[LINK \(http://bulletin.unl.edu/courses/ARCH/532\)](http://bulletin.unl.edu/courses/ARCH/532)**532/832**

Development of production drawings for a small building. Plans, elevations, sections, and details developed through a process of exploration and research.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

ARCH

Seismic Design for Architects[LINK \(http://bulletin.unl.edu/courses/ARCH/532A\)](http://bulletin.unl.edu/courses/ARCH/532A)**532A/832A****Prereqs:****Permission**

Introduction to basic seismic design principles. Making critical decisions concerning the overall performance of a building during an earthquake.

Credit Hours: 1**Campus:****Course Delivery:** Classroom

ARCH

Architectural Systems Design II[LINK \(http://bulletin.unl.edu/courses/ARCH/533\)](http://bulletin.unl.edu/courses/ARCH/533)**533/833****Prereqs:****ARCH 530** (<http://bulletin.unl.edu/courses/ARCH/530>)*830

Investigation of contemporary theoretical and operational ideas in environmental systems and technology. Experiments in the development of architectural systems. Detailed drawings and models.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

ARCH

Daylighting and Energy[LINK \(http://bulletin.unl.edu/courses/ARCH/536\)](http://bulletin.unl.edu/courses/ARCH/536)**536/836****Prereqs:****ARCH 333** (<http://bulletin.unl.edu/courses/ARCH/333>) or *430

Integration of daylighting strategies with building energy performance. Use of physical modeling to depict lighting excellence (quality or lack thereof) and computer modeling to perform energy analyses. Drawing a direct connection between the use of natural light in buildings and buildings' energy consumption.

Credit Hours: 3**Course Format:** Lab 4, Lecture 1**Campus:****Course Delivery:** Classroom

ARCH

Architecture, Society, and Culture I[LINK \(http://bulletin.unl.edu/courses/ARCH/545\)](http://bulletin.unl.edu/courses/ARCH/545)**545/845****Prereqs:**

Admission to the fifth year, **ARCH 541** (<http://bulletin.unl.edu/courses/ARCH/541>)/**841** (<http://bulletin.unl.edu/courses/ARCH/841>) and **542** (<http://bulletin.unl.edu/courses/ARCH/542>)/**842**

Credit Hours: 3**Campus:****Course Delivery:** Classroom

<http://bulletin.unl.edu/courses/ARCH/842>, or permission

Comprehensive review of the relationship between modern architectural theory, society, and culture. Readings in the literature of architecture and modern society with emphasis on evolution of architectural thought.

ARCH

560/860

Environmental Survey and Analysis

Crosslisted as *CRPL 872*

[LINK \(http://bulletin.unl.edu/courses/ARCH/560\)](http://bulletin.unl.edu/courses/ARCH/560)

Prereqs:
Permission

This course is a prerequisite for: [ARCH 561 \(http://bulletin.unl.edu/courses/ARCH/561\)](http://bulletin.unl.edu/courses/ARCH/561)

Comprehensive review of contemporary methods and theories of environmental survey and analysis in the fields of landscape architecture, regional planning, conservation, and related areas, with emphasis on interrelationships between human and natural systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ARCH

561/861

Studies in Environmental Design

[LINK \(http://bulletin.unl.edu/courses/ARCH/561\)](http://bulletin.unl.edu/courses/ARCH/561)

Prereqs:
[ARCH 560 \(http://bulletin.unl.edu/courses/ARCH/560\)](http://bulletin.unl.edu/courses/ARCH/560)/*860

Comparative case studies in environmental development in the fields of landscape architecture, regional planning, conservation, and related areas with emphasis on program techniques. Development of individual or group project programs of contemporary environmental development of large-scale sites, including movement systems, siting of structures, growth phasing, and aesthetic controls.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ARCH

562/862

Urban Form Typology

[LINK \(http://bulletin.unl.edu/courses/ARCH/562\)](http://bulletin.unl.edu/courses/ARCH/562)

Prereqs:
Entrance into 5th year professional program or permission

Addresses core aspects of the architecture of cities. Reviews current typological theories and undertakes descriptive, normative and critical studies of urban examples according to ecological and anthropological criteria. Includes lectures by faculty, guest speakers and seminar presentations by students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ARCH

564/864

Urban Design I

[LINK \(http://bulletin.unl.edu/courses/ARCH/564\)](http://bulletin.unl.edu/courses/ARCH/564)

Prereqs:
Permission

This course is a prerequisite for: [ARCH 565 \(http://bulletin.unl.edu/courses/ARCH/565\)](http://bulletin.unl.edu/courses/ARCH/565)

Detailed study of the context, theory, process, and practice of urban design.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ARCH

565/865

Urban Design II

[LINK \(http://bulletin.unl.edu/courses/ARCH/565\)](http://bulletin.unl.edu/courses/ARCH/565)

Prereqs:
[ARCH 564 \(http://bulletin.unl.edu/courses/ARCH/564\)](http://bulletin.unl.edu/courses/ARCH/564)/*864

Credit Hours:	3
Campus:	

Comparative case studies in urban design and social planning directed at an understanding of urban form.

Course Delivery: Classroom

ARCH

Planting Design

568/868

Crosslisted as *HORT 341*

[LINK \(http://bulletin.unl.edu/courses/ARCH/568\)](http://bulletin.unl.edu/courses/ARCH/568)

Prereqs:

[HORT 266 \(http://bulletin.unl.edu/courses/HORT/266\)](http://bulletin.unl.edu/courses/HORT/266); [MATH 102 \(http://bulletin.unl.edu/courses/MATH/102\)](http://bulletin.unl.edu/courses/MATH/102); [MSYM 109 \(http://bulletin.unl.edu/courses/MSYM/109\)](http://bulletin.unl.edu/courses/MSYM/109) or [PHYS 141 \(http://bulletin.unl.edu/courses/PHYS/141\)](http://bulletin.unl.edu/courses/PHYS/141)

[SOIL 153 \(http://bulletin.unl.edu/courses/SOIL/153\)](http://bulletin.unl.edu/courses/SOIL/153) and [CNST 131 \(http://bulletin.unl.edu/courses/CNST/131\)](http://bulletin.unl.edu/courses/CNST/131) recommended. Lab exercises and field trips are required. Landscape construction, techniques and practices including site measurement and layout, topography, grading, cut-fill drainage and runoff calculations, topsoil protection; bioengineering and urban site erosion control; retaining walls; non-living landscape construction and design techniques as a part of the design process using problem-solving.

Credit Hours: 3

Course Format: Lab 2, Lecture 2

Campus:

Course Delivery: Classroom

ARCH

Advanced Architectural Design III

610/910

[LINK \(http://bulletin.unl.edu/courses/ARCH/610\)](http://bulletin.unl.edu/courses/ARCH/610)

Prereqs:

6th year standing, professional program

Vertically integrated 5th and 6th year studio.

Credit Hours: 5

Course Format: Studio

Campus:

Course Delivery: Classroom

ARCH

Advanced Architectural Design IV

611/911

[LINK \(http://bulletin.unl.edu/courses/ARCH/611\)](http://bulletin.unl.edu/courses/ARCH/611)

Prereqs:

6th year standing, professional program

Vertically integrated 5th and 6th year studio.

Credit Hours: 5

Course Format: Studio

Campus:

Course Delivery: Classroom

ARCH

Architectural Design: Terminal Project Studio I

613/913

[LINK \(http://bulletin.unl.edu/courses/ARCH/613\)](http://bulletin.unl.edu/courses/ARCH/613)

Prereqs:

[ARCH 510 \(http://bulletin.unl.edu/courses/ARCH/510\)](http://bulletin.unl.edu/courses/ARCH/510)/*810, submission of a statement of intent and a contract with a faculty mentor

This course is a prerequisite for: [ARCH 614 \(http://bulletin.unl.edu/courses/ARCH/614\)](http://bulletin.unl.edu/courses/ARCH/614)

Advanced architectural design. The first part of a year-long design project initiated by the student and developed in conjunction with a faculty mentor. The first course in the sequence consists of initial studies that are further developed and completed in the following semester. These initial studies lead to a written and visual proposal that sets the parameters and the agenda for detailed formal design explorations in the following semester.

Credit Hours: 6

Campus:

Course Delivery: Classroom

ARCH

Architectural Design: Terminal Project Studio II

614/914

[LINK \(http://bulletin.unl.edu/courses/ARCH/614\)](http://bulletin.unl.edu/courses/ARCH/614)

Prereqs:
[ARCH 613 \(http://bulletin.unl.edu/courses/ARCH/613\)](http://bulletin.unl.edu/courses/ARCH/613)/[913 \(http://bulletin.unl.edu/courses/ARCH/913\)](http://bulletin.unl.edu/courses/ARCH/913)

Advanced architectural design. The second part of a year-long design project initiated by the student under the supervision and guidance of a faculty mentor. The second course in the sequence develops the formal expression and representation of a specific architectural project as described in the previous semester's work.

Credit Hours:	6
Course Format:	Studio
Campus:	
Course Delivery:	Classroom

ARCH **Architectural Structures IV**

632/932

[LINK \(http://bulletin.unl.edu/courses/ARCH/632\)](http://bulletin.unl.edu/courses/ARCH/632)

Prereqs:
[ARCH 411 \(http://bulletin.unl.edu/courses/ARCH/411\)](http://bulletin.unl.edu/courses/ARCH/411)

Research projects concerning architectural structures.

Credit Hours:	2-6
Campus:	
Course Delivery:	Classroom

ARCH **Professional Practice**

680/880

[LINK \(http://bulletin.unl.edu/courses/ARCH/680\)](http://bulletin.unl.edu/courses/ARCH/680)

Orientation to professional practice through a study of the architects' and the contractors' relationships to society, specific clients, their professions, and other collaborators in the environmental design and construction fields. Ethics; professional communication and responsibility; professional organizations; office management; construction management; legal and contractual relationships; professional registration; and owner-architect-contractor relationships.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ARCH **Architectural Programming**

683/883

[LINK \(http://bulletin.unl.edu/courses/ARCH/683\)](http://bulletin.unl.edu/courses/ARCH/683)

Prereqs:
[ARCH 550 \(http://bulletin.unl.edu/courses/ARCH/550\)](http://bulletin.unl.edu/courses/ARCH/550)/[850 \(http://bulletin.unl.edu/courses/ARCH/850\)](http://bulletin.unl.edu/courses/ARCH/850)

Lecture/seminar/research studying architectural programming/evaluation methods and leading toward the development of an architectural program and statement of design intent for the final studio problem to be done in either [ARCH 913 \(http://bulletin.unl.edu/courses/ARCH/913\)](http://bulletin.unl.edu/courses/ARCH/913) or [ARCH 914 \(http://bulletin.unl.edu/courses/ARCH/914\)](http://bulletin.unl.edu/courses/ARCH/914).

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ARCH **Seminar in Architecture**

691/991

[LINK \(http://bulletin.unl.edu/courses/ARCH/691\)](http://bulletin.unl.edu/courses/ARCH/691)

Prereqs:
[ARCH 550 \(http://bulletin.unl.edu/courses/ARCH/550\)](http://bulletin.unl.edu/courses/ARCH/550)/[850 \(http://bulletin.unl.edu/courses/ARCH/850\)](http://bulletin.unl.edu/courses/ARCH/850) and permission

Contemporary problems in design and practice.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

ARCH **Seminar in Architecture**

692/992

[LINK \(http://bulletin.unl.edu/courses/ARCH/692\)](http://bulletin.unl.edu/courses/ARCH/692)

Prereqs:
[ARCH 550 \(http://bulletin.unl.edu/courses/ARCH/550\)](http://bulletin.unl.edu/courses/ARCH/550)/[850 \(http://bulletin.unl.edu/courses/ARCH/850\)](http://bulletin.unl.edu/courses/ARCH/850) and permission

Credit Hours:	2-3
Campus:	

ARCH Internship

695/895

[LINK \(http://bulletin.unl.edu/courses/ARCH/695\)](http://bulletin.unl.edu/courses/ARCH/695)**Prereqs:**

ARCH 550 (<http://bulletin.unl.edu/courses/ARCH/550>)/850 (<http://bulletin.unl.edu/courses/ARCH/850>) and permission

Exposure to the architectural profession through office application including job promotion, client relations, data collection, design, production drawings, estimating, specifications, bid documents, and quality control.

Campus:

Course Delivery: Classroom

ARCH Problems in Programming

696/896

[LINK \(http://bulletin.unl.edu/courses/ARCH/696\)](http://bulletin.unl.edu/courses/ARCH/696)**Prereqs:**

ARCH *810, *812 and 911, and approval of the faculty

Research and programming in preparation of master's thesis.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ARCH Masters Thesis

699/899

[LINK \(http://bulletin.unl.edu/courses/ARCH/699\)](http://bulletin.unl.edu/courses/ARCH/699)**Prereqs:**

ARCH *896; any two of ARCH 511 (<http://bulletin.unl.edu/courses/ARCH/511>)/911 (<http://bulletin.unl.edu/courses/ARCH/911>), 612 (<http://bulletin.unl.edu/courses/ARCH/612>)/*812, or 613/913; admission to masters degree program and permission of major adviser

Projects to place special emphasis upon a major field of interest. Design problem or written thesis.

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

ARCH Architectural Design: Terminal Project Studio I

815

[LINK \(http://bulletin.unl.edu/courses/ARCH/815\)](http://bulletin.unl.edu/courses/ARCH/815)**Prereqs:**

MArch/MCRP dual degree candidate

Coreq: CRPL 990 (<http://bulletin.unl.edu/courses/CRPL/990>). Advanced architectural design. Initial investigation into the parameters and agenda leading to a proposal for the terminal studio project.

Credit Hours: 3

Course Format: Studio

Campus:

Course Delivery: Classroom

ARCH Research Methods in Architecture and Interior Design

885

Crosslisted as IDES 885

[LINK \(http://bulletin.unl.edu/courses/ARCH/885\)](http://bulletin.unl.edu/courses/ARCH/885)

Research methods employed by the diverse specializations within the disciplines of architecture and interior design. Methods which contribute to a theoretical and informational body of knowledge as well as those contributing directly to design application.

Credit Hours: 3

Campus:

Course Delivery: Classroom

HORT Planting Design

467

Crosslisted as ARCH 467/567/867, LARC 467

[LINK \(http://bulletin.unl.edu/courses/HORT/467\)](http://bulletin.unl.edu/courses/HORT/467)**Prereqs:**

Credit Hours: 4

[HORT/LARC/NRES 212 \(http://bulletin.unl.edu/courses/NRES/212\)](http://bulletin.unl.edu/courses/NRES/212);
[ARCH 210 \(http://bulletin.unl.edu/courses/ARCH/210\)](http://bulletin.unl.edu/courses/ARCH/210) or [HORT/LARC 266 \(http://bulletin.unl.edu/courses/LARC/266\)](http://bulletin.unl.edu/courses/LARC/266).

Course Format:	Lecture 4
Course Delivery:	Classroom

Design processes, principles, and elements as applied to the use of native and ornamental plant materials. Aesthetic, functional, and micro-climatic arrangements of plant material in parks, on commercial property, on home grounds, along roadways, and in urban open spaces. Develop a palette of plants and graphics for designs.

Courses for IDES (IDES)

ARCH **Product Design**

417/617/817

Crosslisted as *IDES 417*

[LINK \(http://bulletin.unl.edu/courses/ARCH/417\)](http://bulletin.unl.edu/courses/ARCH/417)

Prereqs:
Junior standing or permission.

Practical investigation in the use of materials and their fabrication process with emphasis on wood, plastic, and steel. Generate a design from conception to a finished product.

Credit Hours:	3
Course Delivery:	Classroom

ARCH **Behavioral and Social Factors in Environmental Design**

456/556/856

Crosslisted as *IDES 456/856*

[LINK \(http://bulletin.unl.edu/courses/ARCH/456\)](http://bulletin.unl.edu/courses/ARCH/456)

Survey of theory, methods, research, and findings from the social and behavioral sciences as they relate to architectural design, interior design and regional and community planning. Application of principles to the development of architectural and interiors programs and designs and to the planning process.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH **The Changing Workplace**

458/558/858

Crosslisted as *IDES 458/858*

[LINK \(http://bulletin.unl.edu/courses/ARCH/458\)](http://bulletin.unl.edu/courses/ARCH/458)

Survey and integration of theory, methods, research and findings from the social, behavioral, and managerial sciences as they relate to the design of work environments. Factors effecting change in the contemporary workplace.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH **Women in Design**

481/581/881

Crosslisted as *IDES 481*

[LINK \(http://bulletin.unl.edu/courses/ARCH/481\)](http://bulletin.unl.edu/courses/ARCH/481)

Prereqs:
Admission to the BSD program or permission.

Intensive study of particular historical and contemporary contributions by women to the design professions related to the built environment. Evaluation of design work by and about women seen in their aesthetic and intellectual context. Examinations of the roles and values of women in design and their impact on the assumptions and issues currently held by the profession.

Credit Hours:	3
Course Delivery:	Classroom

ARCH **Advanced Color Theory**

482/582/882

Crosslisted as *IDES 482/882*

[LINK \(http://bulletin.unl.edu/courses/ARCH/482\)](http://bulletin.unl.edu/courses/ARCH/482)

Prereqs:

Credit Hours:	3
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Admission to the third year in architecture or Interior Design Program; or permission.

Course Format: Lecture 3

Course Delivery: Classroom

Advanced color theories and their application to the Built environment.

ARCH

885

Research Methods in Architecture and Interior Design

[LINK \(http://bulletin.unl.edu/courses/ARCH/885\)](http://bulletin.unl.edu/courses/ARCH/885)

Crosslisted as *IDES 885*

Research methods employed by the diverse specializations within the disciplines of architecture and interior design. Methods which contribute to a theoretical and informational body of knowledge as well as those contributing directly to design application.

Credit Hours: 3

Campus:

Course Delivery: Classroom

IDES

426/826

Design in an Age of Digital Environments

[LINK \(http://bulletin.unl.edu/courses/IDES/426\)](http://bulletin.unl.edu/courses/IDES/426)

Prereqs:
Admission to the BSD program.

Digital environments and their implications for design. Types of digital environments: intelligent reality, real virtual reality, and neural reality. These environments have qualities which provide unique challenges for their design: intelligence, temporal sequencing, and interactivity. Alternative design processes for handling these special qualities.

Course Format: Lecture 3

Course Delivery: Classroom, Web

IDES

445/845

History of Interiors and Designed Objects

[LINK \(http://bulletin.unl.edu/courses/IDES/445\)](http://bulletin.unl.edu/courses/IDES/445)

Prereqs:
Admission to the professional program in interior design or architecture.

History and development of interiors and furnishings from prehistoric times to the present day, emphasizing the eighteenth, nineteenth, and twentieth centuries. Interiors and furnishings focused on the West yet considered within a global context.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

ACE Outcomes: 5[?], 7[?]

IDES

450/850

Interior Design Studio 3

[LINK \(http://bulletin.unl.edu/courses/IDES/450\)](http://bulletin.unl.edu/courses/IDES/450)

Prereqs:
[IDES 318 \(http://bulletin.unl.edu/courses/IDES/318\)](http://bulletin.unl.edu/courses/IDES/318) and [351 \(http://bulletin.unl.edu/courses/IDES/351\)](http://bulletin.unl.edu/courses/IDES/351).

This course is a prerequisite for: [IDES 451 \(http://bulletin.unl.edu/courses/IDES/451\)](http://bulletin.unl.edu/courses/IDES/451)

Advanced application of the design process with emphasis on complex residential and commercial problems, including systems design, and individual professional objectives.

Credit Hours: 5

Course Format: Studio 12

Course Delivery: Classroom

IDES

451/851

Interior Design Studio 4

[LINK \(http://bulletin.unl.edu/courses/IDES/451\)](http://bulletin.unl.edu/courses/IDES/451)

Prereqs:
[IDES 450 \(http://bulletin.unl.edu/courses/IDES/450\)](http://bulletin.unl.edu/courses/IDES/450), prior or concurrent work experience in interior design or related field.

Design of multipurpose interior (contract and residential) spaces with complete drawings and specifications. Individual and team problems.

Credit Hours: 5

Course Format: Studio 12

Course Delivery: Classroom

ACE Outcomes: 10[?]

IDES

460/860

Preservation and Conservation of Historic InteriorsLINK (<http://bulletin.unl.edu/courses/IDES/460>)**Prereqs:****IDES 340** (<http://bulletin.unl.edu/courses/IDES/340>).

Restoration, conservation, renovation, or adaptive reuse of historic interiors.
Energy feasibility for the older structure.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

IDES

483/883

Domesticity and Power in the Colonial WorldLINK (<http://bulletin.unl.edu/courses/IDES/483>)

Re-examines the relationship between architecture, politics, and ethical values by looking at colonial architecture as a world-wide phenomenon. The colonial domestic sphere is viewed as a counterpoint to the public arena.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

IDES

484/884

Material Culture: The Social Life of ThingsLINK (<http://bulletin.unl.edu/courses/IDES/484>)

The theories and practices of material culture. History and interior design--and the broad category of humanity itself--through the lens of material objects.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

IDES

486/886

Evolving Issues in Interior DesignLINK (<http://bulletin.unl.edu/courses/IDES/486>)**Prereqs:****Admission to the BSD Program.**

Contemporary and controversial issues. Nuances of the field and practice of interior design and its relationship to the allied design disciplines.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

IDES

491/891

Selected Topics in Interior DesignLINK (<http://bulletin.unl.edu/courses/IDES/491>)

IDES 491 (<http://bulletin.unl.edu/courses/IDES/491/891>)
(<http://bulletin.unl.edu/courses/IDES/891>) is "Letter Grade only."

Group investigation of a topic in interior design originated by instructor.

Credit Hours:	1-24
Max credits per degree:	24
Course Format:	Lecture
Course Delivery:	Classroom

IDES

498/898

Problems in Interior DesignLINK (<http://bulletin.unl.edu/courses/IDES/498>)

IDES 498 (<http://bulletin.unl.edu/courses/IDES/498/898>)
(<http://bulletin.unl.edu/courses/IDES/898>) is 'Letter grade only'.

Individual investigation of a topic in interior design.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Independent Study
Course Delivery:	Classroom

**Prereqs:
Permission**

Strategies for teaching and learning directly related to studio education.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

**Prereqs:
Permission**

IDES *895 requires computer, email, and Internet access.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Contents

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 - [1.1 Master of Architecture Degree \(#Master of Architecture Degree\)](#)
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- [2 Faculty \(#Faculty\)](#)

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Architecture). (<http://www.unl.edu/gradstudies/prospective/programs/Architecture>)

Program Director, Architecture: Jeffrey Day, AIA

Program Director, Interior Design: Betsy Gabb, FIDFC, IIDA

Graduate Committee: Professor Hinchman (Chair), Professor Handa; Assistant Professor Olshavsky

Website: archweb.unl.edu

The Architecture Program in the College of Architecture offers three degrees: a professional degree, the Master of Architecture (M.Arch); a graduate degree, the Master of Science (MS); and a doctoral degree (PhD/EdD) specialization in architecture education. In addition, the Program offers joint graduate degrees with the Colleges of Business Administration (MBA) and Engineering (MEng) and internal to the College with Community and Regional Planning (MCRP).

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Master of Architecture Degree

The professional program in architecture is administered by the College of Architecture and is designed to educate highly skilled professional architects. The program features design studios and a range of professional electives in theory, technology, representation, cultural issues, and urban design. Each applicant, depending on previous academic training, professional practice experience and specific interests, works with a faculty adviser to establish a specific program of study suited to his or her interests and career objectives.

Two curricula of study are provided in the master of architecture program. The choice is dependent upon the applicant's prior educational and professional experience.

- Applicants holding a four-year bachelor of science in architectural studies or environmental design, or an equivalent baccalaureate degree granted by an accredited institution, normally complete a 54-credit hour professional program in two years (four academic semesters).
- Applicants with degrees from other fields are eligible to enter the professional program with deficiencies. These deficiencies are established by a departmental faculty committee on an individual basis after a review of the applicant's transcripts and other pertinent materials. Students in this program will be required to complete 27 to 50 hours of selected undergraduate courses (a minimum of one additional year) prior to pursuing the course work of the professional program. Applicants with deficiencies exceeding 50 credit hours will not be admitted.

Curriculum.

The Master of Architecture (M.Arch) program is designed to empower the student to develop a course of study to begin the process of defining their existence as a design professional. Through selections from option studies proposed by the faculty and the professional elective array offered by the faculty each student can customize their curriculum to support their emerging image of the architect they want to be. Further, students in the last year can propose, develop and design a project of their own choosing working one on one with a faculty mentor as a culminating experience of their graduate studies.

With the adviser's approval, elective courses may be selected from other University departments at either the 800- or 900-course level. Half of the required hours must be earned at the University of Nebraska-Lincoln.

Internships.

The Architecture Program offers students in the professional program the opportunity to participate in a Summer Internship Program for academic credit. Students have secured internships with prominent national and international firms. The internship program is available to students who have completed the BSD program

and will have at least one semester of study remaining after interning.

International Studies Program.

Professional program students are eligible to participate in international programs offered in London, England and Tianjin, China.

Admission Requirements for Master of Architecture.

Applicants for the master of architecture degree should submit to the Department of Architecture Student Affairs Committee the following items:

- A program application.
- A portfolio of recent work.
- A statement of educational goals.
- Official transcripts.
- Three letters of professional or academic recommendation.
- TOEFL for international students whose primary language is not English.

The Graduate Record Examination is not required for the professional program application.

Candidates considered for admission should have completed their undergraduate training with an overall grade average of "B" (3.0) and an architectural design studio average of "B". Students who wish to be considered for fellowships and assistantships should apply by the February 1 deadline.

Applications for admission received after the deadline for submission may not be considered until the following academic year.

The Student Affairs Committee makes its first recommendations for admission in March for the following fall semester.

Master of Architecture Joint Degree Options

The program offers two joint degree options for students pursuing a master of architecture.

One option is to pursue a curriculum of study that leads to a master of business administration and a master of architecture. This curriculum is a 68-credit hour program of study.

The second option is to pursue a curriculum of study that leads to a master of community and regional planning and a master of architecture. This curriculum is a 68-credit hour program of study.

Admission requirements for Joint Degree Options

Students applying for a joint degree must make an application to both the Graduate School and the Architecture Program's master of architecture professional program. The Graduate School application requires GRE scores to be submitted as a part of the application. Students interested in pursuing one of these options must include a letter of interest with their application materials.

The master of science in architecture degree is a graduate program with a scholarly, research-based curriculum. The program is available to students who hold an undergraduate degree in architecture or a related discipline.

Curriculum.

Each student, with the guidance of their adviser, prepares a detailed course of study. This course of study must include courses in theory, research methods or analytical techniques, field research, and campus-wide electives. The 36-credit-hour program of study terminates with a written thesis on a topic developed by the student in consultation with their faculty adviser and committee. Candidates for the master of science in architecture degree must maintain a 3.0 GPA, pass a comprehensive exam, pass an oral examination covering the area of preparation, and complete the requirements for the thesis.

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Master of Science in Architecture

The Master of Science is a research-based program for students who want to pursue such a career as teaching or research-based design. In addition to the specialization in Interior Design described below, students can pursue a variety of topics covered by the faculty expertise including healthcare, sustainable environment, educational facilities, digital fabrication, and history/theory. Those who seek a first professional degree in architecture or interior design should apply to our Master of Architecture or undergraduate Interior Design programs.

Specialization Available for the Master of Science Degree:

Interior Design

Admission Requirements for the Master of Science.

Minimum entrance requirements are:

- acceptance to the UNL Graduate Program,
- an undergraduate degree in architecture, interior design, or a related discipline,
- a B average or better in past academic programs, and
- a TOEFL score of 550 (paper) or 213 (computer), 79-80 (Internet) or higher for international students whose first language is not English.

The required submittals for the Master of Science are as follows:

- [Graduate School Application](http://www.unl.edu/gradstudies/) (<http://www.unl.edu/gradstudies/>)
- \$45 Application Fee
- Research Goals (Submitted on GAMES) – Please provide answers to the following questions.
 - Why do you want a master's degree?
 - What are your research interests?
 - What are your academic goals?
 - Is there a faculty member with whom you would like to work?
- A Portfolio of Design Work. The Program Office will return portfolios only if a return envelope and postage are provided or if arrangement is made for pick-up at the Program Office. Please note that the PORTFOLIO submission must be sent to the College of Architecture directly at: UNL College of Architecture, Graduate Admissions Coordinator, 302 Architecture Hall, Lincoln, NE 68588-0105.
- Official Transcripts. All undergraduate and graduate transcripts are required.
- Letters of Recommendation. Applicants are required to submit three letters of recommendation using the instructions listed on GAMES.
- TOEFL Scores. Results from an English proficiency are required of all international student applicants. (A Bachelors degree from an accredited university in the United States, Canada or England replaces the TOEFL requirement.)
- Financial Certification. International Students only.
- GRE scores.

Master of Science in Architecture Specialization in Interior Design

The Specialization in Interior Design within the master of science degree in architecture is a scholarly research-based curriculum. This 36-credit-hour program of study is designed for those students who have successfully completed a CIDA accredited undergraduate degree in interior design or closely related field and are interested in approaching the design of the built environment as user-centered providing a basis for informed design decisions. It is understood that of prime importance in the design of the built environment is the satisfaction of the user's physical, psycho-social, and spiritual needs and the protection of their health,

safety and well-being.

To fulfill the requirements of the Specialization in Interior Design, candidates must: a) maintain a 3.0 GPA, b) receive a grade of B or better in all courses counted toward the degree, c) pass the required cumulative examinations, d) pass an oral examination covering their area of preparation and thesis research, and e) complete the requirements for the thesis.

Distance Education Options

In addition, the Interior Design Program has launched a Distance Education portion to the Masters degree. For more information on the Distance Ed/MS-ID program, please click on the following link: <http://interiordesign.unl.edu/idesdistance/index.html> (<http://interiordesign.unl.edu/idesdistance/index.html>). The Masters, therefore, can be completed partially, or in its entirety through distance education. Courses offered through distance education are only available when the same course is offered for 'in residence' students. Completing the Masters through distance education will take more than the two years for a typical resident student.

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Doctorate in Educational Studies with a Specialization in Architecture Education

We are not accepting applications for the PhD program at this time.

The program provides academic preparation and professional development for those individuals who will serve as: a) faculty members in programs of architecture in public and private post-secondary educational institutions; b) administrative leaders of architecture programs in higher education; and c) leaders in design profession whose practice is informed by research. The program offers students a choice of either the PhD or the EdD. The specialization in architecture education is jointly sponsored by the College of Architecture and the College of Education and Human Sciences.

Curriculum

The program of study offers broad objectives and specific experiences for each student. The common core of studies provides students with a multicultural perspective, a direct teaching experience, and an active research program as well as opportunities for working with community and professional leaders to explore contemporary architecture education problems. The program culminates with either a dissertation (PhD) or field study (EdD).^{*} Higher Education/Education Administration

- Advanced Architectural Concepts
- Practicum/Internship
- Social Science Research Methods
- Doctoral Seminars
- Dissertation

Admission Requirements

The applicant must have an undergraduate degree in architecture or a related discipline and a research-related graduate degree. Those applicants who do not have a research-related graduate degree may be admitted to our Master of Science program instead. The credit hours (up to 36) accumulated during the Master of Science program may be accepted for advanced standing in the doctoral program.

A joint admissions committee composed of representative members of the respective departments (Architecture and Educational Administration) will collectively administer the admissions process. The application shall include the following:

- College of Architecture Ph.D. Application.
- Graduate School Application – must be completed online.
- \$50 Application Fee – payable by credit card online.
- Research Goals – Please provide answers to the following questions.
 - Why do you want a doctoral degree?
 - What are your research interests?
 - What are your academic goals?
 - Which faculty member would you like to work with?

1. A Portfolio of Design Work – The Department will return portfolios only if a return envelope with postage is provided or if arrangement is made for pick up at the Department office.
2. Official Transcripts – All undergraduate and graduate transcripts are required.
3. Letters of Recommendation – Applicants are required to submit three letters of recommendation.
4. TOEFL Scores – Results from this English proficiency exam of 550 or higher are required of all international student applicants. (A bachelors degree from an accredited university in the United States, Canada, or England replaces the TOEFL requirement.)
5. GRE – Applicants must have a GRE score sent to the Office of Graduate Studies.
6. Evidence of Scholarly Writing and Research Ability – Provide two examples of scholarly writing that demonstrates research ability.
7. Evidence of Experience with Diverse Cultures – Provide written description and/or documentation.

All qualified students are encouraged to apply. If you have any questions or need an application packet mailed to you, please e-mail the Admissions Coordinator at architecture2@unl.edu, or you may call the Programs Office at (402) 472-9280.

Each applicant will need to gain the agreement of a member of the Graduate Faculty to act as chair of his or her supervisory committee and as a mentor. The Admissions Committee and its chair will facilitate the matching of student and mentor.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Architecture). (<http://www.unl.edu/gradstudies/prospective/programs/Architecture>)

- Allisma, Tom –2006; Assistant Professor; BS 1998, MArch 2000 Nebraska (Lincoln)
- Bahe, Lindsey Ellsworth –2005; Assistant Professor; BSD 2001, MArch 2003 Nebraska (Lincoln)
- Borner, William L. –1972; Professor Emeritus and Registered Architect; BArch 1967 Western Reserve; MArch 1968 Michigan
- Cheon, Janghwan –2009; Assistant Professor; MArch 2004 Columbia
- Day, Jeff L. –2001; Assistant Professor and Registered Architect; AB 1988 Harvard; MArch 1995 California (Berkeley)
- Despang, Martin –2005; Associate Professor, Architecture; Dipl Ing Architekt 1994 Hanover (Germany)
- Drummond, Wayne –2000; Dean, Professor; BArch 1968 Louisiana State; MArch 1969 Rice
- Duncan, Robert I. –1976; Professor; BS Arch 1960 Kansas; MArch 1968 Iowa State
- Ertl, Ted A. –1974; Associate Professor Emeritus and Registered Architect (AIA); BArch 1969, MArch 1975 Colorado
- Gabb, Betsy S. –1986; Director Interior Design Program and Professor; BS 1970 Nebraska (Lincoln); MA 1972 Minnesota; EdD 1982 Nebraska (Lincoln)
- Handa, Rumiko –1996; Professor and Registered Architect; BArch 1979 Tokyo; MArch 1983, PhD 1992 Pennsylvania

- Hardy, Steven –2008; Associate Professor; 1995 BArch Kansas; 1996 University College London
- Hemsath, Timothy –2007; Assistant Professor; BS 1999, MArch 2001 Nebraska (Lincoln)
- Hinchman, Mark –1998; Associate Professor and Registered Architect (AIA); BArch 1983 Notre Dame; MArch 1987 Cornell; MA (Art History) 1995 Chicago
- Hind, Peter –2007; Assistant Professor; BS 1998, MArch 2000 Nebraska (Lincoln)
- Hoistad, Mark A. –1989; Associate Dean, Architecture Program Director, Professor and Registered Architect (AIA); BS (Arch) 1977 Georgia Institute of Technology; MArch 1983 Houston
- Jung, Hyun Tae –2006; Assistant Professor; BS, MS, MPhil in Architecture Seoul (South Korea)
- Karle, David –2010; Lecturer; MArch 2006 Michigan
- Kelly, Brian –2010; Assistant Professor; BArch 1997, MArch 1999 Nebraska (Lincoln)
- Krug, Nate S. –1994; Associate Professor and Registered Architect (AIA); BEd 1973 Kansas; MArch 1976 California (Los Angeles)
- Kuska, Sharon S. B. –1993; Associate Dean, Professor and Registered Engineer; BSAS 1982, MS 1984, PhD 1993 Nebraska (Lincoln)
- Laging, Thomas S. –1967; Professor and Registered Architect (AIA); BArch 1963 Nebraska (Lincoln); MArch 1966 Harvard
- Olshavsky, Peter –2010; Assistant Professor; BArch 2002 Pennsylvania State; MArch 2005 McGill
- Potter, James J. –1981; Professor Emeritus and Registered Architect; BS 1964 California State Polytechnic; MArch 1973 SUNY (Buffalo); PhD 1982 Pennsylvania State
- Puderbaugh, Homer L. –1960; Professor Emeritus and Registered Architect (AIA); BArch 1952, MS 1959 Kansas State
- Sawyers, H. Keith –1958; Professor Emeritus; BArch 1958 Iowa State; MArch 1966 California (Berkeley)
- Steward, W. Cecil –1973; Dean Emeritus and Registered Architect (FAIA); BArch 1957 Texas A&M; MS 1961 Columbia
- Thomas, Sarah –2010; Assistant Professor; MLA 2010 Harvard

Retrieved from "<http://bulletin.unl.edu/graduate/Architecture> (<http://bulletin.unl.edu/graduate/Architecture>)"

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Art and Art History

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- [Drawing \(DRAW\) \(#DRAW\)](#)
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- [Printmaking \(PRNT\) \(#PRNT\)](#)
- [Sculpture \(SCLP\) \(#SCLP\)](#)
- [Watercolor \(WATC\) \(#WATC\)](#)

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Courses for AHIS (AHIS)

AHIS	Classical Architecture	LINK (http://bulletin.unl.edu/courses/AHIS/411)
411/811		

Prereqs:
12 hrs in art history or related disciplines with permission.

History and development of architectural orders and styles from ancient Greece and Italy.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS	Greek Sculpture	LINK (http://bulletin.unl.edu/courses/AHIS/412)
412/812		

Prereqs:
12 hrs in art history or related disciplines with permission.

Greek sculpture from the Bronze Age through the Hellenistic periods. Stylistic evolution and classical themes as presented in individual freestanding and architectural sculpture. Techniques, materials, and uses of sculpture.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS	Roman Painting	LINK (http://bulletin.unl.edu/courses/AHIS/413)
413/813		

Prereqs:
12 hrs art history or in related disciplines with permission.

Credit Hours:	3
Course Format:	Lecture

Development of Roman painting from the Etruscans through the Age of Constantine.

Course Delivery: Classroom

AHIS

Gothic Painting and Prints

[LINK \(http://bulletin.unl.edu/courses/AHIS/418\)](http://bulletin.unl.edu/courses/AHIS/418)

418/818

Prereqs:

12 hrs in art history, including [AHIS 318 \(http://bulletin.unl.edu/courses/AHIS/318\)](http://bulletin.unl.edu/courses/AHIS/318), or in related disciplines with permission.

Style, iconography, history, and function of painting and prints from ca. 1150 to 1475 in France, Germany, and the Netherlands. Includes manuscript illumination, stained glass, panel painting, woodcuts, and engravings, stressing the development of naturalism before the "Renaissance" in Northern Europe.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

AHIS

The Italian Renaissance City

[LINK \(http://bulletin.unl.edu/courses/AHIS/421\)](http://bulletin.unl.edu/courses/AHIS/421)

421/821

Prereqs:

12 hrs in art history, or in related disciplines with permission.

Exploration of the art and architecture of the Italian city in the late middle ages and Renaissance, with particular attention to civic projects and the role of art in defining the identity, and creating the "myths" of that city.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

AHIS

Northern Renaissance and Reformation Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/426\)](http://bulletin.unl.edu/courses/AHIS/426)

426/826

Prereqs:

12 hrs in art history, including [AHIS 318 \(http://bulletin.unl.edu/courses/AHIS/318\)](http://bulletin.unl.edu/courses/AHIS/318) or [418 \(http://bulletin.unl.edu/courses/AHIS/418\)](http://bulletin.unl.edu/courses/AHIS/418), or in related disciplines with permission.

Art of the Renaissance and Reformation in Germany and the Netherlands. Stresses the influences of Italian Renaissance Art and the impact of the Protestant Reformation from ca. 1475 to 1575.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

AHIS

Italian Baroque Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/431\)](http://bulletin.unl.edu/courses/AHIS/431)

431/831

Prereqs:

12 hrs in art history or in related disciplines with permission.

Painting, sculpture and architecture in Italy from the late sixteenth to the late seventeenth century.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

AHIS

Impressionism and Post-Impressionism

[LINK \(http://bulletin.unl.edu/courses/AHIS/441\)](http://bulletin.unl.edu/courses/AHIS/441)

441/841

Prereqs:

12 hr in art history or in related disciplines with permission.

French Impressionism and Post-impersonism with consideration of the historical context out of which they emerged. Development of the avant-garde and the changing relationship of the artist to society.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

AHIS

Art since 1945[LINK \(http://bulletin.unl.edu/courses/AHIS/446\)](http://bulletin.unl.edu/courses/AHIS/446)**446/846****Prereqs:**

12 hrs in art history, including [AHIS 102](http://bulletin.unl.edu/courses/AHIS/102) (<http://bulletin.unl.edu/courses/AHIS/102>) and [246](http://bulletin.unl.edu/courses/AHIS/246) (<http://bulletin.unl.edu/courses/AHIS/246>).

Art from 1945 to the present focusing on the development of the avant-garde, the transition from modernism to post-modernism, and the various art world institutions.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS

Post-Modernism[LINK \(http://bulletin.unl.edu/courses/AHIS/448\)](http://bulletin.unl.edu/courses/AHIS/448)**448/848****Prereqs:**

12 hrs in art history, including [AHIS 102](http://bulletin.unl.edu/courses/AHIS/102) (<http://bulletin.unl.edu/courses/AHIS/102>) or [246](http://bulletin.unl.edu/courses/AHIS/246) (<http://bulletin.unl.edu/courses/AHIS/246>), and [446](http://bulletin.unl.edu/courses/AHIS/446) (<http://bulletin.unl.edu/courses/AHIS/446>)/[846](http://bulletin.unl.edu/courses/AHIS/846) (<http://bulletin.unl.edu/courses/AHIS/846>); or 12 hrs in related disciplines with permission.

Developments in art since 1970, exploring the various art styles and the relationship of the artists to their audience and to the institutions of the art world.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS

19th-Century American Art[LINK \(http://bulletin.unl.edu/courses/AHIS/451\)](http://bulletin.unl.edu/courses/AHIS/451)**451/851****Prereqs:**

12 hrs art history including [AHIS 251](http://bulletin.unl.edu/courses/AHIS/251) (<http://bulletin.unl.edu/courses/AHIS/251>) or [341](http://bulletin.unl.edu/courses/AHIS/341) (<http://bulletin.unl.edu/courses/AHIS/341>) or permission.

19th Century American art and material culture.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS

American Art, 1893–1939[LINK \(http://bulletin.unl.edu/courses/AHIS/452\)](http://bulletin.unl.edu/courses/AHIS/452)**452/852****Prereqs:**

12 hrs art history including [AHIS 252](http://bulletin.unl.edu/courses/AHIS/252) (<http://bulletin.unl.edu/courses/AHIS/252>) or [346](http://bulletin.unl.edu/courses/AHIS/346) (<http://bulletin.unl.edu/courses/AHIS/346>) or permission.

Early 20th-century American art.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS

Colonial Art of Latin America[LINK \(http://bulletin.unl.edu/courses/AHIS/457\)](http://bulletin.unl.edu/courses/AHIS/457)**457/857****Prereqs:**

12 hrs in the history of art or in related disciplines with permission.

Emphasizing New Spain, the Viceroyalty of Peru, and Brazil.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS

History of Photography[LINK \(http://bulletin.unl.edu/courses/AHIS/471\)](http://bulletin.unl.edu/courses/AHIS/471)**471/871**

Prereqs:
Permission.

This course is a prerequisite for: [AHIS 472 \(http://bulletin.unl.edu/courses/AHIS/472\)](http://bulletin.unl.edu/courses/AHIS/472)

Introduction to the history of still photography with major emphasis on its development as an art form.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS **Photography Since 1960**

472/872

[LINK \(http://bulletin.unl.edu/courses/AHIS/472\)](http://bulletin.unl.edu/courses/AHIS/472)

Prereqs:
[AHIS 471 \(http://bulletin.unl.edu/courses/AHIS/471\)](http://bulletin.unl.edu/courses/AHIS/471)/[871 \(http://bulletin.unl.edu/courses/AHIS/871\)](http://bulletin.unl.edu/courses/AHIS/871) or permission.

Movements in photography since 1960 with emphasis on the interaction with art theory and criticism.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS **History of Prints**

476/876

[LINK \(http://bulletin.unl.edu/courses/AHIS/476\)](http://bulletin.unl.edu/courses/AHIS/476)

Prereqs:
12 hrs in art history, including [AHIS 221 \(http://bulletin.unl.edu/courses/AHIS/221\)](http://bulletin.unl.edu/courses/AHIS/221), [226 \(http://bulletin.unl.edu/courses/AHIS/226\)](http://bulletin.unl.edu/courses/AHIS/226), or [231 \(http://bulletin.unl.edu/courses/AHIS/231\)](http://bulletin.unl.edu/courses/AHIS/231), or in related disciplines with permission.

Introduction to the history of prints stressing printmaking techniques, i.e., woodcut, engraving, drypoint, etching, and the makers of prints during the first 300 years of printmaking in Europe. Baldung, Goltzius, Bruegel, and Rembrandt. Major technical developments, such as the introduction of printing colored woodcuts, are included.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AHIS **Directed Individual Reading**

490/890

[LINK \(http://bulletin.unl.edu/courses/AHIS/490\)](http://bulletin.unl.edu/courses/AHIS/490)

Prereqs:
Permission of department chair.

Introduction to the history of prints stressing printmaking techniques, i.e., woodcut, engraving, drypoint, etching, and the makers of prints during the first 300 years of printmaking in Europe. Baldung, Goltzius, Bruegel, and Rembrandt. Major technical developments, such as the introduction of printing colored woodcuts, are included.

Credit Hours:	1-6
Max credits per semester:	6
Max credits per degree:	24
Course Format:	Independent Study
Course Delivery:	Classroom

AHIS **Independent Research in Art History**

492/892

[LINK \(http://bulletin.unl.edu/courses/AHIS/492\)](http://bulletin.unl.edu/courses/AHIS/492)

Prereqs:
Permission of department chair.

Introduction to the history of prints stressing printmaking techniques, i.e., woodcut, engraving, drypoint, etching, and the makers of prints during the first 300 years of printmaking in Europe. Baldung, Goltzius, Bruegel, and Rembrandt. Major technical developments, such as the introduction of printing colored woodcuts, are included.

Credit Hours:	1-6
Max credits per semester:	6
Max credits per degree:	24
Course Format:	Independent Study
Course Delivery:	Classroom

AHIS **Internship in Art History**

495/895

[LINK \(http://bulletin.unl.edu/courses/AHIS/495\)](http://bulletin.unl.edu/courses/AHIS/495)

Prereqs:
Senior standing and permission of department chair.

Credit Hours:	1-6
Max credits per semester:	6
Max credits per degree:	24
Course Format:	Field
Course Delivery:	Classroom

AHIS **Advanced Archaeological Fieldwork**

496/896

[LINK \(http://bulletin.unl.edu/courses/AHIS/496\)](http://bulletin.unl.edu/courses/AHIS/496)

Prereqs:
AHIS 286 (<http://bulletin.unl.edu/courses/AHIS/286>) or equivalent, and permission.

Art and Art History majors must register for a letter grade.

Further training in archaeological field research techniques.

Credit Hours:	3
Max credits per degree:	12
Course Format:	Field
Course Delivery:	Classroom

AHIS **Special Topics in Art History**

498/898

[LINK \(http://bulletin.unl.edu/courses/AHIS/498\)](http://bulletin.unl.edu/courses/AHIS/498)

Prereqs:
Permission.

Credit Hours:	1-3
Max credits per semester:	3
Max credits per degree:	24
Course Format:	Lecture
Course Delivery:	Classroom

AHIS **Pre-Columbian Art**

856

[LINK \(http://bulletin.unl.edu/courses/AHIS/856\)](http://bulletin.unl.edu/courses/AHIS/856)

Prereqs:
Permission

Emphasizing the Mesoamerican and Andean traditions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AHIS **Masters Thesis**

899

[LINK \(http://bulletin.unl.edu/courses/AHIS/899\)](http://bulletin.unl.edu/courses/AHIS/899)

Prereqs:
Permission

Credit Hours:	1-10
Max credits per degree:	10
Campus:	
Course Delivery:	Classroom

AHIS **Methodology and Historiography**

901

[LINK \(http://bulletin.unl.edu/courses/AHIS/901\)](http://bulletin.unl.edu/courses/AHIS/901)

Prereqs:
Permission

History of the discipline, with an examination of the various art historical approaches. Development and refinement of specialized research skills appropriate to the field.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AHIS

911

Seminar in Classical Art and Archaeology

[LINK \(http://bulletin.unl.edu/courses/AHIS/911\)](http://bulletin.unl.edu/courses/AHIS/911)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

AHIS

916

Seminar in Medieval Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/916\)](http://bulletin.unl.edu/courses/AHIS/916)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

AHIS

921

Seminar in Italian Renaissance Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/921\)](http://bulletin.unl.edu/courses/AHIS/921)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

AHIS

926

Seminar in Northern Renaissance Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/926\)](http://bulletin.unl.edu/courses/AHIS/926)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

AHIS

931

Seminar in Baroque Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/931\)](http://bulletin.unl.edu/courses/AHIS/931)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

AHIS

946

Seminar in Modern Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/946\)](http://bulletin.unl.edu/courses/AHIS/946)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

AHIS

951

Seminar in American Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/951\)](http://bulletin.unl.edu/courses/AHIS/951)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

AHIS
956

Seminar in Latin American Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/956\)](http://bulletin.unl.edu/courses/AHIS/956)

Prereqs:
Permission

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AHIS
977

Seminar in Latin American Art

[LINK \(http://bulletin.unl.edu/courses/AHIS/977\)](http://bulletin.unl.edu/courses/AHIS/977)

Prereqs:
Permission

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

AHIS
980

Seminar in Art Historical Problems

[LINK \(http://bulletin.unl.edu/courses/AHIS/980\)](http://bulletin.unl.edu/courses/AHIS/980)

Prereqs:
Permission

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AHIS
988

Introduction to the Interdisciplinary Study of the Middle Ages

[LINK \(http://bulletin.unl.edu/courses/AHIS/988\)](http://bulletin.unl.edu/courses/AHIS/988)

Crosslisted as *ENGL 988, HIST 988, MODL 988, MUSC 988*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Middle Ages. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AHIS
989

Introduction to the Interdisciplinary Study of the Renaissance

[LINK \(http://bulletin.unl.edu/courses/AHIS/989\)](http://bulletin.unl.edu/courses/AHIS/989)

Crosslisted as *ENGL 989, HIST 989, MODL 989, MUSC 989*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Renaissance. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ARCH
347/547

African Architecture

[LINK \(http://bulletin.unl.edu/courses/ARCH/347\)](http://bulletin.unl.edu/courses/ARCH/347)

Crosslisted as *ETHN 347, AHIS 366*

Prereqs:
Sophomore standing.

Survey of the architectural traditions of the African continent, from pre-historic times to the present day. Buildings--famous and typical--theories, and approaches that are appropriate to the specific cultural environments.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

Courses for ARTP (ARTP)

ADPR

Japanese Visual Culture in Context[LINK \(http://bulletin.unl.edu/courses/ADPR/480\)](http://bulletin.unl.edu/courses/ADPR/480)**480/880**Crosslisted as *ARTP 480/880*

ADPR/ARTP 480 (http://bulletin.unl.edu/courses/ARTP/480)/880 (http://bulletin.unl.edu/courses/ARTP/880) is a study abroad course that includes four days on campus in Lincoln and two and one-half weeks in Japan. ADPR/ARTP 480 (http://bulletin.unl.edu/courses/ARTP/480)/880 (http://bulletin.unl.edu/courses/ARTP/880) is 'Letter grade only'.

Test and hone visual literacy skills in a foreign country. Observe, analyze, and interpret visual information without the aid of text in the native Japanese language. Sharpen perceptual and analytical skills through daily drawing, writing, and photography in Japan. Increase global awareness through analysis of an issue.

Credit Hours:	3
Course Format:	Studio 32
Course Delivery:	Classroom
ACE Outcomes:	2 [?] , 9 [?]

ARTP

Advanced Problems in Studio[LINK \(http://bulletin.unl.edu/courses/ARTP/896\)](http://bulletin.unl.edu/courses/ARTP/896)**896**

Prereqs:
Permission

Problems in technique and expression on a tutorial basis.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ARTP

Studio Thesis[LINK \(http://bulletin.unl.edu/courses/ARTP/899\)](http://bulletin.unl.edu/courses/ARTP/899)**899**

Prereqs:
Admission to masters degree program and permission of major adviser

Original work in studio, under direction.

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

ARTP

Capstone Senior Exhibition[LINK \(http://bulletin.unl.edu/courses/ARTP/99\)](http://bulletin.unl.edu/courses/ARTP/99)**99**

Prereqs:
Senior standing and permission.

ARTP 99 (http://bulletin.unl.edu/courses/ARTP/99) must be taken during the final year.

Public exhibition to demonstrate artistic proficiency.

Credit Hours:	0
Course Delivery:	Classroom

ARTP

Problems in Studio Art[LINK \(http://bulletin.unl.edu/courses/ARTP/996\)](http://bulletin.unl.edu/courses/ARTP/996)**996**

Prereqs:
Permission

Problems in technique and expression. Advanced laboratory experience.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ARTP

Colloquium[LINK \(http://bulletin.unl.edu/courses/ARTP/997\)](http://bulletin.unl.edu/courses/ARTP/997)**997**

Prereqs:
Permission

Problems and approaches relating to the practice of art, with special attention to media.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

Courses for CERM (CERM)

CERM

434/834

Glaze Formulation

[LINK \(http://bulletin.unl.edu/courses/CERM/434\)](http://bulletin.unl.edu/courses/CERM/434)

Prereqs:
Permission.

Practical and theoretical information to develop, mix, fire, and troubleshoot ceramic surfaces for pottery and sculpture.

Credit Hours:	3
Course Format:	Studio 6
Course Delivery:	Classroom

CERM

435/835

Kiln Design and Construction

[LINK \(http://bulletin.unl.edu/courses/CERM/435\)](http://bulletin.unl.edu/courses/CERM/435)

Prereqs:
Permission.

Design and build a kiln for firing pottery or sculpture.

Credit Hours:	3
Course Format:	Studio 6
Course Delivery:	Classroom

CERM

498/898

Special Topics in Ceramics

[LINK \(http://bulletin.unl.edu/courses/CERM/498\)](http://bulletin.unl.edu/courses/CERM/498)

Prereqs:
Permission.

Topic varies.

Credit Hours:	3
Max credits per degree:	12
Course Format:	Studio
Course Delivery:	Classroom

CERM

831

Ceramics I

[LINK \(http://bulletin.unl.edu/courses/CERM/831\)](http://bulletin.unl.edu/courses/CERM/831)

Graduate-level various ceramic media and concepts.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

CERM

832

Ceramics II

[LINK \(http://bulletin.unl.edu/courses/CERM/832\)](http://bulletin.unl.edu/courses/CERM/832)

Graduate-level various ceramic media and concepts.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

CERM

896

Advanced Problems in Ceramics

[LINK \(http://bulletin.unl.edu/courses/CERM/896\)](http://bulletin.unl.edu/courses/CERM/896)

Prereqs:
Permission

Problems in technique and expression.

Credit Hours:	1-6
Max credits per degree:	24
Course Format:	Studio
Campus:	
Course Delivery:	Classroom

CERM

899**Studio Thesis in Ceramics**[LINK \(http://bulletin.unl.edu/courses/CERM/899\)](http://bulletin.unl.edu/courses/CERM/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Original work in studio.

Credit Hours: 6–10

Max credits per degree: 10

Course Format: Studio

Campus:

Course Delivery: Classroom

CERM

931**Ceramics III**[LINK \(http://bulletin.unl.edu/courses/CERM/931\)](http://bulletin.unl.edu/courses/CERM/931)**Prereqs:**

CERM *831–832

Graduate-level individual work in ceramics.

Credit Hours: 1–6

Campus:

Course Delivery: Classroom

CERM

932**Ceramics IV**[LINK \(http://bulletin.unl.edu/courses/CERM/932\)](http://bulletin.unl.edu/courses/CERM/932)**Prereqs:**

CERM *831–832

Graduate-level individual work in ceramics.

Credit Hours: 1–6

Campus:

Course Delivery: Classroom

CERM

996**Problems in Ceramics**[LINK \(http://bulletin.unl.edu/courses/CERM/996\)](http://bulletin.unl.edu/courses/CERM/996)**Prereqs:**

Permission

Problems in technique and expression. Advanced laboratory experience.

Credit Hours: 1–6

Max credits per degree: 24

Course Format: Studio

Campus:

Course Delivery: Classroom

Ω

Courses for DRAW (DRAW)

DRAW

801**Drawing I**[LINK \(http://bulletin.unl.edu/courses/DRAW/801\)](http://bulletin.unl.edu/courses/DRAW/801)

Graduate-level work in various drawing media and concepts.

Credit Hours: 1–6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

DRAW

802**Drawing II**[LINK \(http://bulletin.unl.edu/courses/DRAW/802\)](http://bulletin.unl.edu/courses/DRAW/802)

Graduate-level work in various drawing media and concepts.

Credit Hours: 1–6

Max credits per degree: 6

Campus:

DRAW

901**Drawing III**[LINK \(http://bulletin.unl.edu/courses/DRAW/901\)](http://bulletin.unl.edu/courses/DRAW/901)

Graduate-level work in drawing, that can include the exploration of a variety of media and visual ideas.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

DRAW

902**Drawing IV**[LINK \(http://bulletin.unl.edu/courses/DRAW/902\)](http://bulletin.unl.edu/courses/DRAW/902)

Graduate-level work in drawing, that can include the exploration of a variety of media and visual ideas.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

Q

Courses for GRPH (GRPH)

GRPH

821**Graphic Design I**[LINK \(http://bulletin.unl.edu/courses/GRPH/821\)](http://bulletin.unl.edu/courses/GRPH/821)

Graduate-level work in various graphic design media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

GRPH

822**Graphic Design II**[LINK \(http://bulletin.unl.edu/courses/GRPH/822\)](http://bulletin.unl.edu/courses/GRPH/822)

Graduate-level work in various graphic design media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

GRPH

921**Advanced Graphic Design I**[LINK \(http://bulletin.unl.edu/courses/GRPH/921\)](http://bulletin.unl.edu/courses/GRPH/921)

Prereqs:
GRPH *821-822 or permission

Advanced graduate-level work in various graphic design media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

GRPH

922**Advanced Graphic Design II**[LINK \(http://bulletin.unl.edu/courses/GRPH/922\)](http://bulletin.unl.edu/courses/GRPH/922)

Prereqs:

Credit Hours:	1-6
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GRPH *821–822 or permission

Advanced graduate-level work in various graphic design media and concepts.

Max credits per degree: 6

Campus:

Course Delivery: Classroom

GRPH

Book Arts

[LINK \(http://bulletin.unl.edu/courses/GRPH/925\)](http://bulletin.unl.edu/courses/GRPH/925)

925

Prereqs:
[GRPH 825 \(http://bulletin.unl.edu/courses/GRPH/825\)](http://bulletin.unl.edu/courses/GRPH/825) or permission

Continued graduate work in limited edition and/or unique book arts.

Credit Hours: 1–6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

Ω
Courses for PANT (PANT)

PANT

Painting I

[LINK \(http://bulletin.unl.edu/courses/PANT/851\)](http://bulletin.unl.edu/courses/PANT/851)

851

Graduate-level work in various painting media and concepts.

Credit Hours: 1–6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

PANT

Painting II

[LINK \(http://bulletin.unl.edu/courses/PANT/852\)](http://bulletin.unl.edu/courses/PANT/852)

852

Graduate-level work in various painting media and concepts.

Credit Hours: 1–6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

PANT

Painting III

[LINK \(http://bulletin.unl.edu/courses/PANT/951\)](http://bulletin.unl.edu/courses/PANT/951)

951

Prereqs:
[PANT *851–852 or permission](#)

Graduate-level work in various painting media and concepts.

Credit Hours: 1–6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

PANT

Painting IV

[LINK \(http://bulletin.unl.edu/courses/PANT/952\)](http://bulletin.unl.edu/courses/PANT/952)

952

Prereqs:
[PANT *851–852 or permission](#)

Graduate-level work in various painting media and concepts.

Credit Hours: 1–6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

Courses for PHOT (PHOT)

PHOT

491/891

Special Topics in Photography

[LINK \(http://bulletin.unl.edu/courses/PHOT/491\)](http://bulletin.unl.edu/courses/PHOT/491)

Prereqs:
PHOT 261 (<http://bulletin.unl.edu/courses/PHOT/261>) or permission.

Special Topics in Photography.

Credit Hours:	3
Max credits per semester:	3
Max credits per degree:	18
Course Format:	Studio 6
Course Delivery:	Classroom

PHOT

861

Photography I

[LINK \(http://bulletin.unl.edu/courses/PHOT/861\)](http://bulletin.unl.edu/courses/PHOT/861)

Prereqs:
Permission.

Graduate-level work in various photographic media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Course Delivery:	Classroom

PHOT

862

Photography II

[LINK \(http://bulletin.unl.edu/courses/PHOT/862\)](http://bulletin.unl.edu/courses/PHOT/862)

Prereqs:
PHOT861 or Permission.

Graduate-level work in various photographic media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Additional Anthropology Courses

PHOT

896

Problems in Photography

[LINK \(http://bulletin.unl.edu/courses/PHOT/896\)](http://bulletin.unl.edu/courses/PHOT/896)

Prereqs:
Permission.

Problems in technique and expression. Independent study.

Credit Hours:	1-24
Max credits per semester:	10
Max credits per degree:	24
Course Delivery:	Classroom

PHOT

899

Studio Thesis in Photography

[LINK \(http://bulletin.unl.edu/courses/PHOT/899\)](http://bulletin.unl.edu/courses/PHOT/899)

Prereqs:
PHOT861, 862, 961, 962 or permission

Thesis work in various photographic media and concepts.

Credit Hours:	1-10
Max credits per semester:	10
Max credits per degree:	10
Course Delivery:	Classroom

PHOT

961

Photography III

[LINK \(http://bulletin.unl.edu/courses/PHOT/961\)](http://bulletin.unl.edu/courses/PHOT/961)

Prereqs:
PHOT861, 862 or permission

Graduate-level work in various photographic media and concepts.

Credit Hours:	1-6
Max credits per degree:	6

PHOT

962**Photography IV**[LINK \(http://bulletin.unl.edu/courses/PHOT/962\)](http://bulletin.unl.edu/courses/PHOT/962)**Prereqs:**
PHOT961 or permission

Graduate-level work in various photographic media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Course Delivery:	Classroom

PHOT

996**Advanced Problems in Photography**[LINK \(http://bulletin.unl.edu/courses/PHOT/996\)](http://bulletin.unl.edu/courses/PHOT/996)**Prereqs:**
Permission.

Problems in technique and expression. Advanced laboratory experience. Independent study.

Credit Hours:	1-24
Max credits per semester:	10
Max credits per degree:	24
Course Delivery:	Classroom

Q

Courses for PRNT (PRNT)

PRNT

841**Printmaking I**[LINK \(http://bulletin.unl.edu/courses/PRNT/841\)](http://bulletin.unl.edu/courses/PRNT/841)

Graduate-level work in various printmaking media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

PRNT

842**Printmaking II**[LINK \(http://bulletin.unl.edu/courses/PRNT/842\)](http://bulletin.unl.edu/courses/PRNT/842)

Graduate-level work in various printmaking media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

PRNT

941**Printmaking III**[LINK \(http://bulletin.unl.edu/courses/PRNT/941\)](http://bulletin.unl.edu/courses/PRNT/941)**Prereqs:**
PRNT *841-842

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

PRNT

942**Printmaking IV**[LINK \(http://bulletin.unl.edu/courses/PRNT/942\)](http://bulletin.unl.edu/courses/PRNT/942)**Prereqs:**
PRNT *841-842

Credit Hours:	1-6
Max credits per degree:	6

Campus:	
Course Delivery:	Classroom

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Courses for SCLP (SCLP)

SCLP 811	Sculpture I	LINK (http://bulletin.unl.edu/courses/SCLP/811)								
Graduate-level work in various sculpture media and concepts.										
		<table> <tr> <td>Credit Hours:</td> <td>1-6</td> </tr> <tr> <td>Max credits per degree:</td> <td>6</td> </tr> <tr> <td>Campus:</td> <td></td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	1-6	Max credits per degree:	6	Campus:		Course Delivery:	Classroom
Credit Hours:	1-6									
Max credits per degree:	6									
Campus:										
Course Delivery:	Classroom									

SCLP 812	Sculpture II	LINK (http://bulletin.unl.edu/courses/SCLP/812)								
Graduate-level work in various sculpture media and concepts.										
		<table> <tr> <td>Credit Hours:</td> <td>1-6</td> </tr> <tr> <td>Max credits per degree:</td> <td>6</td> </tr> <tr> <td>Campus:</td> <td></td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	1-6	Max credits per degree:	6	Campus:		Course Delivery:	Classroom
Credit Hours:	1-6									
Max credits per degree:	6									
Campus:										
Course Delivery:	Classroom									

SCLP 911	Sculpture III	LINK (http://bulletin.unl.edu/courses/SCLP/911)								
Prereqs: SCLP *811-812 or permission										
Graduate-level work in various sculpture media and concepts.										
		<table> <tr> <td>Credit Hours:</td> <td>1-6</td> </tr> <tr> <td>Max credits per degree:</td> <td>6</td> </tr> <tr> <td>Campus:</td> <td></td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	1-6	Max credits per degree:	6	Campus:		Course Delivery:	Classroom
Credit Hours:	1-6									
Max credits per degree:	6									
Campus:										
Course Delivery:	Classroom									

SCLP 912	Sculpture IV	LINK (http://bulletin.unl.edu/courses/SCLP/912)								
Prereqs: SCLP *811-812 or permission										
Graduate-level work in various sculpture media and concepts.										
		<table> <tr> <td>Credit Hours:</td> <td>1-6</td> </tr> <tr> <td>Max credits per degree:</td> <td>6</td> </tr> <tr> <td>Campus:</td> <td></td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	1-6	Max credits per degree:	6	Campus:		Course Delivery:	Classroom
Credit Hours:	1-6									
Max credits per degree:	6									
Campus:										
Course Delivery:	Classroom									

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Courses for WATC (WATC)

WATC 857	Watercolor I	LINK (http://bulletin.unl.edu/courses/WATC/857)								
Graduate-level work in various watercolor media and concepts.										
		<table> <tr> <td>Credit Hours:</td> <td>1-6</td> </tr> <tr> <td>Max credits per degree:</td> <td>6</td> </tr> <tr> <td>Campus:</td> <td></td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	1-6	Max credits per degree:	6	Campus:		Course Delivery:	Classroom
Credit Hours:	1-6									
Max credits per degree:	6									
Campus:										
Course Delivery:	Classroom									

WATC
858

Watercolor II

[LINK \(http://bulletin.unl.edu/courses/WATC/858\)](http://bulletin.unl.edu/courses/WATC/858)

Graduate-level work in various watercolor media and concepts.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

WATC
957

Watercolor III

[LINK \(http://bulletin.unl.edu/courses/WATC/957\)](http://bulletin.unl.edu/courses/WATC/957)

Prereqs:
WATC *857-858

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

WATC
958

Watercolor IV

[LINK \(http://bulletin.unl.edu/courses/WATC/958\)](http://bulletin.unl.edu/courses/WATC/958)

Prereqs:
WATC *857-858

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Art).
(<http://www.unl.edu/gradstudies/prospective/programs/Art>)

Department Chair: Peter Pinnell, M.F.A.

Graduate Committee: Associate Professors Ingraham (Chair), Bolland, Fritz

The department offers graduate instruction leading to the degrees of Master of Arts (M.A.) in art history, and Master of Fine Arts (M.F.A.) in studio art. Candidates may pursue the MFA in the following areas of emphasis: ceramics, drawing, graphic design, painting, photography, printmaking, sculpture, new genres, or a combination of several of these disciplines.

Undergraduate Requirements

Candidates for the M.F.A. must have obtained the bachelors degree from an institution of recognized standing and preferably have completed undergraduate preparation substantially the equivalent of that required for the bachelor of fine arts degree at the University of Nebraska-Lincoln.

Applicants for the M.A. in art history will ordinarily have a bachelor's degree with an art history major or minor. However, we recognize that M.A. applicants may come from a wide variety of backgrounds, and we are willing to tailor the program to meet the individual needs of the applicant. Those without a demonstrated background in art history may be advised to take undergraduate courses in the department prior to admission to the program or concurrent with their M.A. studies (these classes will not count toward M.A. program requirements). Regardless of an applicant's undergraduate major, admission to the M.A. program assumes a minimum of a B average in undergraduate work.

Master of Arts in Art History Requirements

The M.A. program requires a minimum of 30 hours of advanced study, balanced between coursework designed to promote coverage of the field, cross-disciplinary explorations, and focused research. M.A. candidates must pass a minimum of 30 credit hours, pass a written comprehensive exam, and write a thesis, on which there will be an oral exam. Competency in a modern foreign language is also required. Applicants for the M.A. must apply for special permission to pursue a non-thesis option.

Master of Fine Arts Requirements

The M.F.A. candidate must: a) complete 60 credit hours of approved course work; b) present an original body of creative work, known as a "thesis exhibition," in a gallery space on campus; c) write a brief essay on the thesis work; d) pass an oral examination. The program requires a minimum of 26 hours of work in the area(s) of emphasis and a minimum of 9 hours in regularly scheduled art history courses. An additional 9 hours may be taken in approved academic courses. Additional studio course work brings the total to the 60 credit hour minimum.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Art).
(<http://www.unl.edu/gradstudies/prospective/programs/Art>)

Retrieved from "http://bulletin.unl.edu/graduate/Art_and_Art_History (http://bulletin.unl.edu/graduate/Art_and_Art_History)"
[Back to Top \(#maincontent\)](#)

Biochemistry

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Courses for BIOC (BIOC)

AGRO 810	Plant Molecular Biology Crosslisted as <i>BIOS 810, BIOC 810, HORT 810</i>	LINK (http://bulletin.unl.edu/courses/AGRO/810)
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Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315) or [BIOS 206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206); [BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831) or permission

Molecular genetic basis of biological function in higher plants. Genome organization, gene structure and function, regulation of gene expression, recombinant DNA, and genetic engineering principles. Material taken primarily from current literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO 818	Agricultural Biochemistry Crosslisted as <i>BIOC 818</i>	LINK (http://bulletin.unl.edu/courses/AGRO/818)
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Prereqs:
Undergraduate major in life sciences or related area, and a course in biochemistry

A Web-based course. Biochemical underpinnings of agricultural production and processing systems. Agricultural biotechnology; bioenergetics; kinetics and enzyme regulation; interaction of biomolecules with light, photosynthesis and the balance between anabolism and catabolism in microbes, plants and animals.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

ASCI 949	Biochemistry of Nutrition Crosslisted as <i>BIOS 949, BIOC 949, NUTR 949</i>	LINK (http://bulletin.unl.edu/courses/ASCI/949)
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Prereqs:
[BIOC 832 \(http://bulletin.unl.edu/courses/BIOC/832\)](http://bulletin.unl.edu/courses/BIOC/832) or *839, or permission

Offered odd-numbered calendar years. Interrelationships of nutrients, nutritional state and metabolic processes. Energy metabolism, integration of nutrition and metabolism and nutritional regulation of gene function.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

BIOC 431/831	Biomolecules and Metabolism Crosslisted as <i>BIOS 431/831, CHEM 431/831</i>	LINK (http://bulletin.unl.edu/courses/BIOC/431)
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Prereqs:
[CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252) or [262 \(http://bulletin.unl.edu/courses/CHEM/262\)](http://bulletin.unl.edu/courses/CHEM/262). [BIOS 102 \(http://bulletin.unl.edu/courses/BIOS/102\)](http://bulletin.unl.edu/courses/BIOS/102) recommended.

This course is a prerequisite for: [BIOC 432 \(http://bulletin.unl.edu/courses/BIOC/432\)](http://bulletin.unl.edu/courses/BIOC/432), [BIOC 433 \(http://bulletin.unl.edu/courses/BIOC/433\)](http://bulletin.unl.edu/courses/BIOC/433), [BIOS 950 \(http://bulletin.unl.edu/courses/BIOS/950\)](http://bulletin.unl.edu/courses/BIOS/950)

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Classroom

First course of a two-semester, comprehensive biochemistry course sequence.

Structure and function of proteins, nucleic acids, carbohydrates and lipids; nature of enzymes; major metabolic pathways; and biochemical energy production.

BIOC **Gene Expression and Replication**

432/832

Crosslisted as BIOS 432, CHEM 432/832

[LINK \(http://bulletin.unl.edu/courses/BIOC/432\)](http://bulletin.unl.edu/courses/BIOC/432)

Prereqs:

[BIOC 431 \(http://bulletin.unl.edu/courses/BIOC/431\)](http://bulletin.unl.edu/courses/BIOC/431)/[831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831).

Continuation of [BIOC 431 \(http://bulletin.unl.edu/courses/BIOC/431\)](http://bulletin.unl.edu/courses/BIOC/431)/[831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831). Structural and biochemical aspects of DNA replication and gene expression, and biotechnology.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

BIOC **Biochemistry Laboratory**

433/833

Crosslisted as BIOS 433/833, CHEM 433/833

[LINK \(http://bulletin.unl.edu/courses/BIOC/433\)](http://bulletin.unl.edu/courses/BIOC/433)

Prereqs:

[BIOC 431 \(http://bulletin.unl.edu/courses/BIOC/431\)](http://bulletin.unl.edu/courses/BIOC/431)/[831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831) or concurrent enrollment.

Introduction to techniques used in biochemical and biotechnology research, including measurement of pH, spectroscopy, analysis of enzymes, chromatography, fractionation of macromolecules, electrophoresis, and centrifugation.

Credit Hours:	2
Course Format:	Lab 4, Lecture 1
Course Delivery:	Classroom

BIOC **Plant Biochemistry**

434/834

Crosslisted as BIOS 434/834, CHEM 434/834, AGRO 434/834

[LINK \(http://bulletin.unl.edu/courses/BIOC/434\)](http://bulletin.unl.edu/courses/BIOC/434)

Prereqs:

[BIOC/BIOS/CHEM 431 \(http://bulletin.unl.edu/courses/CHEM/431\)](http://bulletin.unl.edu/courses/CHEM/431)/[831 \(http://bulletin.unl.edu/courses/CHEM/831\)](http://bulletin.unl.edu/courses/CHEM/831).

Offered every other year beginning spring 2007.

Biochemical metabolism unique to plants. Relationships of topics previously acquired in general biochemistry to biochemical processes unique to plants. Biochemical mechanisms behind physiological processes discussed in plant or crop physiology.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOC **Research Techniques in Biochemistry**

437/837

Crosslisted as BIOS 437/837

[LINK \(http://bulletin.unl.edu/courses/BIOC/437\)](http://bulletin.unl.edu/courses/BIOC/437)

Prereqs:

[BIOC/BIOS/CHEM 433 \(http://bulletin.unl.edu/courses/CHEM/433\)](http://bulletin.unl.edu/courses/CHEM/433)/[833 \(http://bulletin.unl.edu/courses/CHEM/833\)](http://bulletin.unl.edu/courses/CHEM/833), or permission.

Methods approach to systems biology analysis. Molecular identification and quantification employing techniques such as mass spectrometry, chromatography, electrophoretic fractionation, transcriptomics, proteomics and metabolomics. Data and pathway analysis with computational methods.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Course Delivery:	Classroom

BIOC **Advanced Topics in Biophysical Chemistry**

486/886

Crosslisted as BIOS 486/886, CHEM 486/886

[LINK \(http://bulletin.unl.edu/courses/BIOC/486\)](http://bulletin.unl.edu/courses/BIOC/486)

Prereqs:

Credit Hours:	3
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[CHEM 471 \(http://bulletin.unl.edu/courses/CHEM/471/871\)](http://bulletin.unl.edu/courses/CHEM/471/871)
[or 871 \(http://bulletin.unl.edu/courses/CHEM/871\)](http://bulletin.unl.edu/courses/CHEM/871) or [481 \(http://bulletin.unl.edu/courses/CHEM/481/881\)](http://bulletin.unl.edu/courses/CHEM/481/881)
[or 881 \(http://bulletin.unl.edu/courses/CHEM/881\)](http://bulletin.unl.edu/courses/CHEM/881).

Applications of thermodynamics to biochemical phenomena, optical properties of proteins and polynucleotides, and kinetics of rapid reactions.

Course Format:	Lecture 3
Course Delivery:	Classroom

BIOC

836

Physical Basis of Macromolecular Function

Crosslisted as *CHEM 836*

[LINK \(http://bulletin.unl.edu/courses/BIOC/836\)](http://bulletin.unl.edu/courses/BIOC/836)

Introduction to the theory and practice of biophysical characterization of macromolecules. The course will be based on primary research literature, although a supporting text will be used for in depth discussion of the methods.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

BIOC

839

Survey of Biochemistry

Crosslisted as *BIOS 839, CHEM 839*

[LINK \(http://bulletin.unl.edu/courses/BIOC/839\)](http://bulletin.unl.edu/courses/BIOC/839)

Prereqs:
Permission

Comprehensive survey of biochemistry for incoming graduate students. Topics include those in [BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831) and [832 \(http://bulletin.unl.edu/courses/BIOC/832\)](http://bulletin.unl.edu/courses/BIOC/832), but not all topics discussed in lecture periods. Depth enhanced by assigned readings.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

BIOC

848

Redox Biochemistry

Crosslisted as *CHEM 848*

[LINK \(http://bulletin.unl.edu/courses/BIOC/848\)](http://bulletin.unl.edu/courses/BIOC/848)

Prereqs:
3 hrs BIOC and 3 hrs inorganic chemistry

Redox (oxidation and reduction)-based biochemical processes (energy generation, oxygen transfer, enzyme catalysis, signaling, gene regulation, and diseases). Recent progress in these areas. Roles of metals in biochemical reactions, metal homeostasis, and biosynthesis of metal cofactors and metal sites. Biochemistry and pathophysiology of redoxactive species and radicals. Antioxidant molecules and enzymes.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

BIOC

869

Chemistry for Secondary School Classrooms

Crosslisted as *BIOS 883, CHEM 869, TEAC 869*

[LINK \(http://bulletin.unl.edu/courses/BIOC/869\)](http://bulletin.unl.edu/courses/BIOC/869)

Credit in this course will not count towards a graduate degree in chemistry or biochemistry or biological sciences. Course taught via World Wide Web. Chemistry content for high school teachers organized according to the National Science Education Standards. Individual course coverage includes: content, integration with other sciences and mathematics, graphing calculators, probe-experiments, simulations, at-home experiments, teaching materials, and industrial applications related to the title description.

- A. Structure and Properties of Matter: Water and Solutions (1 cr)
- B. Structure and Properties of Matter: Periodicity (1 cr)
- D. Structure and Properties of Matter: Bonding and Structure (1 cr)
- E. Structure and Properties of Matter: Carbon Chemistry and Polymers (1 cr)
- J. Structure and Properties of Matter: Gases and the Atmosphere (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1 cr)
- L. Structure and Properties of Matter: Condensed States and Materials Science (1 cr)
- M. Interactions of Matter and Energy (1 cr)

Credit Hours:	1
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

- N. Chemistry of Life Processes: DNA (1 cr)
- P. Chemistry of Life Processes: Energy and Metabolism (1 cr)
- Q. Chemical Reactions: Equations and their Consequences (1 cr)
- R. Chemical Reactions: Acids and Bases (1 cr)
- T. Chemical Reactions: Kinetics (1 cr)
- U. Chemical Reactions: Oxidation, Reduction and Electrochemistry (1 cr)
- V. Equilibrium: Unifying Theme (1 cr)
- W. Conservation of Energy and the Increase in Disorder: Thermodynamics (1 cr)
- Y. Inquiry and the Nature of Science: Analysis and Instrumentation (1 cr)
- Z. Structure of Atoms: Nuclear Chemistry (1 cr)

BIOC
898

Research in Biochemistry

[LINK \(http://bulletin.unl.edu/courses/BIOC/898\)](http://bulletin.unl.edu/courses/BIOC/898)

Prereqs:
BIOC 833 (<http://bulletin.unl.edu/courses/BIOC/833>) and permission

Laboratory research on a specific problem under the supervision of a biochemistry faculty member.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

BIOC
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/BIOC/899\)](http://bulletin.unl.edu/courses/BIOC/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

BIOC
992K

Seminar in Biological Chemistry

Crosslisted as *CHEM 992K*

[LINK \(http://bulletin.unl.edu/courses/BIOC/992K\)](http://bulletin.unl.edu/courses/BIOC/992K)

Prereqs:
BIOC 832 (<http://bulletin.unl.edu/courses/BIOC/832>) or *839; and permission

Credit Hours:	1-2
Max credits per degree:	2
Campus:	
Course Delivery:	Classroom

BIOC
998

Advanced Topics in Biochemistry

[LINK \(http://bulletin.unl.edu/courses/BIOC/998\)](http://bulletin.unl.edu/courses/BIOC/998)

Prereqs:
BIOC 832 (<http://bulletin.unl.edu/courses/BIOC/832>) and *839

BIOC 998 (<http://bulletin.unl.edu/courses/BIOC/998>) is a special biochemistry topics when faculty and student needs cannot be met by other courses.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

BIOC
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/BIOC/999\)](http://bulletin.unl.edu/courses/BIOC/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

CHEM
932

Proteins

Crosslisted as *BIOS 932, BIOC 932*

[LINK \(http://bulletin.unl.edu/courses/CHEM/932\)](http://bulletin.unl.edu/courses/CHEM/932)

Prereqs:
[BIOC/BIOS/CHEM 832 \(http://bulletin.unl.edu/courses/CHEM/832\)](http://bulletin.unl.edu/courses/CHEM/832) or
[BIOC/BIOS/CHEM *839](http://bulletin.unl.edu/courses/CHEM/839)

Protein structure and function.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM
933

Enzymes

Crosslisted as *BIOS 933, BIOC 933*

[LINK \(http://bulletin.unl.edu/courses/CHEM/933\)](http://bulletin.unl.edu/courses/CHEM/933)

Prereqs:
[BIOC/BIOS/CHEM 432 \(http://bulletin.unl.edu/courses/CHEM/432\)/832](http://bulletin.unl.edu/courses/CHEM/432)
 [\(http://bulletin.unl.edu/courses/CHEM/832\)](http://bulletin.unl.edu/courses/CHEM/832), or [BIOC/BIOS/CHEM *839](http://bulletin.unl.edu/courses/CHEM/839)

Kinetics regulation and reaction mechanisms of enzymes.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM
934

Genome Dynamics and Gene Expression

Crosslisted as *BIOS 934, BIOC 934*

[LINK \(http://bulletin.unl.edu/courses/CHEM/934\)](http://bulletin.unl.edu/courses/CHEM/934)

Prereqs:
[BIOC/BIOS/CHEM 832 \(http://bulletin.unl.edu/courses/CHEM/832\)](http://bulletin.unl.edu/courses/CHEM/832) or
permission

Detailed examination of dynamic control mechanisms of genome maintenance and gene regulation. Mechanisms of transcription, translation, and replication based on analysis of current and seminal literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CHEM
935

Metabolic Function and Dysfunction

Crosslisted as *BIOS 935, BIOC 935*

[LINK \(http://bulletin.unl.edu/courses/CHEM/935\)](http://bulletin.unl.edu/courses/CHEM/935)

Prereqs:
[BIOC/CHEM/BIOS 432 \(http://bulletin.unl.edu/courses/BIOS/432\)/832](http://bulletin.unl.edu/courses/BIOS/432)
 [\(http://bulletin.unl.edu/courses/BIOS/832\)](http://bulletin.unl.edu/courses/BIOS/832) and permission

BIOC/CHEM/BIOS 935 (http://bulletin.unl.edu/courses/BIOS/935) is offered even-numbered calendar years.

Current metabolic research at the bioenergetic, metabolomic, and molecular level. The normal metabolic processes that go awry in cancer, obesity, and oxidative stress.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

STAT
442/842

Computational Biology

Crosslisted as *BIOC 442/842*

[LINK \(http://bulletin.unl.edu/courses/STAT/442\)](http://bulletin.unl.edu/courses/STAT/442)

Prereqs:
Any introductory course in biology, or genetics, or statistics.

Databases, high-throughput biology, literature mining, gene expression, next-generation sequencing, proteomics, metabolomics, systems biology, and biological networks.

Credit Hours:	3
Course Format:	Lab 2, Lecture 1
Course Delivery:	Classroom

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Biochemistry).
 [\(http://www.unl.edu/gradstudies/prospective/programs/Biochemistry\)](http://www.unl.edu/gradstudies/prospective/programs/Biochemistry)

Director for the Center for Biological Chemistry: Paul N. Black, Ph.D.

Graduate Chair: Melanie Simpson, Ph.D.

Graduate study in biochemistry is pursued through the Center for Biological Chemistry, which has responsibility for instructional programs, undergraduate degrees, and graduate degrees in biochemistry. The purpose of the program is to provide training in biochemistry that will prepare students for professional careers in agricultural, biomedical or natural sciences, with particular emphasis on carrying out and interpreting contemporary research. The program is designed to provide sufficient depth that the student will be at the state of the art in his/her area of specialization. At the same time, the program is designed to provide sufficient breadth that the student can understand current studies in related areas of biochemistry.

The faculty of the Center for Biological Chemistry is made up of faculty in Nutrition and Health Sciences, Agronomy and Horticulture, Biological Sciences, Chemistry, and Veterinary and Biomedical Sciences.

Applicants for graduate work in the Center for Biological Chemistry must have a BS or BA degree in biochemistry, biology, chemistry, or a related field. Undergraduate work should include at least one course in biochemistry, one course in genetics, one course in physical chemistry (calculus based), one year of organic chemistry, and one year of physics. Deficiencies in these requirements will be made up during the first year of graduate study. The verbal, quantitative and analytical parts of the Graduate Record Examination are required for a student to be considered for admission. The advanced Graduate Record Examination in biochemistry, biology, or chemistry is recommended. Foreign students whose native language is not English must have a minimum TOEFL score of 550.

Further information about admission and graduate programs can be obtained from the Center for Biological Chemistry, N200 Beadle Center, City Campus. Also visit the biochemistry Web site at biochem.unl.edu.

Master of Science Degree.

All students must take BIOC 836, 932, 933, 934, 935, and at least 4 credits of biochemistry seminar (BIOC 992K). Other course requirements are arranged in consultation with the Examining Committee. Students under Option I (advance permission is required to use Option II) must earn a minimum of 30 hours of credit, consisting of 20 to 24 hours of courses (including seminar) and 6 to 10 hours of thesis credit. At least one half of the required hours (including thesis) must be taken in the Center. At least 8 hours must be taken in courses only open to graduate students (900 level or 800 level without a 400 counterpart). Students will be required to assist with teaching biochemistry courses for a minimum of one semester.

Each student must pass a written comprehensive examination formulated and administered by the Examining Committee. The purpose of the exam is to test the student's breadth of knowledge in biochemistry.

Students in the Option I program must complete an original research project, write a thesis, and present a publicized seminar open to faculty and students at which the work comprising the MS thesis is presented. Each student must pass a final oral examination administered by the Examining Committee.

Doctor of Philosophy Degree.

The PhD in the Center for Biological Chemistry is a research degree providing in-depth education in an area of biochemistry. Course requirements are arranged in consultation with the student's Supervisory Committee but should include credit hours in BIOC 836, 932, 933, 934, 935 and 8 credits in biochemistry seminar (BIOC 992K).

Students must pass a comprehensive examination consisting of written and oral components. This examination will include preparation and defense of an original research proposal and the student's Supervisory Committee is responsible for administering the exam.

Students must complete an original research project, write a dissertation, formally present and defend the research work in a seminar, and pass a final oral examination covering the research work and thesis administered by the Supervisory Committee. The PhD degree is principally a research degree; thus, this is the most important requirement in the program.

Minor in Biochemistry.

To fulfill the requirements for a minor in biochemistry, graduate students outside the Center for Biological Chemistry seeking a masters degree are required to complete at least 9 credits in BIOC-listed or cross-listed courses at the 800 or 900 level, with at least 3 credits at the 900 level. Students seeking a doctoral degree must complete at least 15 credits in BIOC-listed or cross-listed courses at the 800 or 900 level with at least 6 credits at the 900 level (for the doctoral degree).

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Biochemistry). (<http://www.unl.edu/gradstudies/prospective/programs/Biochemistry>)

Retrieved from "<http://bulletin.unl.edu/graduate/Biochemistry> (<http://bulletin.unl.edu/graduate/Biochemistry>)"
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Biological Sciences

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Courses for BIOS (BIOS)

AGRO 460/860	Soil Microbiology Crosslisted as <i>BIOS 447/847, SOIL 460, NRES 460/860</i>
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[LINK \(http://bulletin.unl.edu/courses/AGRO/460\)](http://bulletin.unl.edu/courses/AGRO/460)

Prereqs:
One semester microbiology; one semester biochemistry or organic

Credit Hours:	3
Course Format:	Lecture 3

Soil from a microbe's perspective—growth, activity and survival strategies; principles governing methods to study microorganisms and biochemical processes in soil; mechanisms controlling organic matter cycling and stabilization with reference to C, N, S, and P; microbial interactions with plants and animals; and agronomic and environmental applications of soil microorganisms.

AGRO 807 Plant–Water Relations

Crosslisted as *BIOS 817*, *NRES 807*

[LINK \(http://bulletin.unl.edu/courses/AGRO/807\)](http://bulletin.unl.edu/courses/AGRO/807)

Prereqs:

[AGRO 325 \(http://bulletin.unl.edu/courses/AGRO/325\)](http://bulletin.unl.edu/courses/AGRO/325) or equivalent; [MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106) recommended

Quantitative study of water relations in the soil–plant–atmosphere system. Basic physical processes, which describe the movement of water in the soil and the atmosphere, and the physiological processes, which describe water movement inside of the plant. Stomata physiology and the effects of internal water deficits on photosynthesis, respiration, nitrogen metabolism, cell division and cell enlargement. Results from integrative models used to study the relative importance of environmental versus physiological factors for several plant–environment systems.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

AGRO 810 Plant Molecular Biology

Crosslisted as *BIOS 810*, *BIOC 810*, *HORT 810*

[LINK \(http://bulletin.unl.edu/courses/AGRO/810\)](http://bulletin.unl.edu/courses/AGRO/810)

Prereqs:

[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315) or [BIOS 206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206); [BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831) or permission

Molecular genetic basis of biological function in higher plants. Genome organization, gene structure and function, regulation of gene expression, recombinant DNA, and genetic engineering principles. Material taken primarily from current literature.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

AGRO 963 Genetics of Host–Parasite Interaction

Crosslisted as *BIOS 963*, *HORT 963*

[LINK \(http://bulletin.unl.edu/courses/AGRO/963\)](http://bulletin.unl.edu/courses/AGRO/963)

Prereqs:

[BIOS 206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206) or [820 \(http://bulletin.unl.edu/courses/BIOS/820\)](http://bulletin.unl.edu/courses/BIOS/820)

Recommended [BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312); *BIOS *864A* or **864B*; and [BIOC 837 \(http://bulletin.unl.edu/courses/BIOC/837\)](http://bulletin.unl.edu/courses/BIOC/837). Offered even-numbered calendar years.

Credit Hours: 3

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

ANTH 448/848 Human Growth and Development

Crosslisted as *BIOS 448/848*

[LINK \(http://bulletin.unl.edu/courses/ANTH/448\)](http://bulletin.unl.edu/courses/ANTH/448)

Prereqs:

[ANTH 242 \(http://bulletin.unl.edu/courses/ANTH/242\)](http://bulletin.unl.edu/courses/ANTH/242) and [242L \(http://bulletin.unl.edu/courses/ANTH/242L\)](http://bulletin.unl.edu/courses/ANTH/242L), or [BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [101L \(http://bulletin.unl.edu/courses/BIOS/101L\)](http://bulletin.unl.edu/courses/BIOS/101L).

Biological diversity from an evolutionary perspective. The history of the study of human physical growth and biological principles of growth. Genetic, epigenetic and hormonal effects on human and other mammal growth patterns, and environmental factors that influence growth. Effects of nutrition, disease, socio-economic status, pollution, etc. Unique features of

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Biological Anthropology

human growth in its various stages. How anthropologists interpret variation in growth patterns among human populations and the possible adaptive significance of this variation.

ASCI

Endocrinology

442/842

Crosslisted as BIOS 442/842, VBMS 842

[LINK \(http://bulletin.unl.edu/courses/ASCI/442\)](http://bulletin.unl.edu/courses/ASCI/442)

Prereqs:

A course in vertebrate physiology and/or biochemistry.

Mammalian endocrine glands from the standpoint of their structure, their physiological function in relation to the organism, the chemical nature and mechanisms of action of their secretory products, and the nature of anomalies manifested with their dysfunction.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ASCI

Biochemistry of Nutrition

949

Crosslisted as BIOS 949, BIOC 949, NUTR 949

[LINK \(http://bulletin.unl.edu/courses/ASCI/949\)](http://bulletin.unl.edu/courses/ASCI/949)

Prereqs:

BIOC 832 (<http://bulletin.unl.edu/courses/BIOC/832>) or *839, or permission

Offered odd-numbered calendar years. Interrelationships of nutrients, nutritional state and metabolic processes. Energy metabolism, integration of nutrition and metabolism and nutritional regulation of gene function.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

BIOC

Biomolecules and Metabolism

431/831

Crosslisted as BIOS 431/831, CHEM 431/831

[LINK \(http://bulletin.unl.edu/courses/BIOC/431\)](http://bulletin.unl.edu/courses/BIOC/431)

Prereqs:

CHEM 252 (<http://bulletin.unl.edu/courses/CHEM/252>) or 262 (<http://bulletin.unl.edu/courses/CHEM/262>), BIOS 102 (<http://bulletin.unl.edu/courses/BIOS/102>) recommended.

This course is a prerequisite for: BIOC 432 (<http://bulletin.unl.edu/courses/BIOC/432>), BIOC 433 (<http://bulletin.unl.edu/courses/BIOC/433>), BIOS 950 (<http://bulletin.unl.edu/courses/BIOS/950>)

First course of a two-semester, comprehensive biochemistry course sequence.

Structure and function of proteins, nucleic acids, carbohydrates and lipids; nature of enzymes; major metabolic pathways; and biochemical energy production.

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Classroom

BIOC

Gene Expression and Replication

432/832

Crosslisted as BIOS 432, CHEM 432/832

[LINK \(http://bulletin.unl.edu/courses/BIOC/432\)](http://bulletin.unl.edu/courses/BIOC/432)

Prereqs:

BIOC 431 (<http://bulletin.unl.edu/courses/BIOC/431>)/831 (<http://bulletin.unl.edu/courses/BIOC/831>).

Continuation of BIOC 431 (<http://bulletin.unl.edu/courses/BIOC/431>)/831 (<http://bulletin.unl.edu/courses/BIOC/831>). Structural and biochemical aspects of DNA replication and gene expression, and biotechnology.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

BIOC

Biochemistry Laboratory

433/833

Crosslisted as BIOS 433/833, CHEM 433/833

[LINK \(http://bulletin.unl.edu/courses/BIOC/433\)](http://bulletin.unl.edu/courses/BIOC/433)

Prereqs:

Credit Hours:	2
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BIOC 431 (<http://bulletin.unl.edu/courses/BIOC/431/>) / **831** (<http://bulletin.unl.edu/courses/BIOC/831/>) or concurrent enrollment.

Introduction to techniques used in biochemical and biotechnology research, including measurement of pH, spectroscopy, analysis of enzymes, chromatography, fractionation of macromolecules, electrophoresis, and centrifugation.

Course Format: Lab 4, Lecture 1

Course Delivery: Classroom

BIOC **Plant Biochemistry**

434/834

Crosslisted as *BIOS 434/834, CHEM 434/834, AGRO 434/834*

[LINK \(http://bulletin.unl.edu/courses/BIOC/434/\)](http://bulletin.unl.edu/courses/BIOC/434/)

Prereqs:

[BIOC/BIOS/CHEM 431 \(http://bulletin.unl.edu/courses/CHEM/431/\)](http://bulletin.unl.edu/courses/CHEM/431/) / **831** (<http://bulletin.unl.edu/courses/CHEM/831/>).

Offered every other year beginning spring 2007.

Biochemical metabolism unique to plants. Relationships of topics previously acquired in general biochemistry to biochemical processes unique to plants. Biochemical mechanisms behind physiological processes discussed in plant or crop physiology.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOC **Research Techniques in Biochemistry**

437/837

Crosslisted as *BIOS 437/837*

[LINK \(http://bulletin.unl.edu/courses/BIOC/437/\)](http://bulletin.unl.edu/courses/BIOC/437/)

Prereqs:

[BIOC/BIOS/CHEM 433 \(http://bulletin.unl.edu/courses/CHEM/433/\)](http://bulletin.unl.edu/courses/CHEM/433/) / **833** (<http://bulletin.unl.edu/courses/CHEM/833/>), or permission.

Methods approach to systems biology analysis. Molecular identification and quantification employing techniques such as mass spectrometry, chromatography, electrophoretic fractionation, transcriptomics, proteomics and metabolomics. Data and pathway analysis with computational methods.

Credit Hours: 4

Course Format: Lab 3, Lecture 3

Course Delivery: Classroom

BIOC **Advanced Topics in Biophysical Chemistry**

486/886

Crosslisted as *BIOS 486/886, CHEM 486/886*

[LINK \(http://bulletin.unl.edu/courses/BIOC/486/\)](http://bulletin.unl.edu/courses/BIOC/486/)

Prereqs:

[CHEM 471 \(http://bulletin.unl.edu/courses/CHEM/471/\)](http://bulletin.unl.edu/courses/CHEM/471/) / **871** (<http://bulletin.unl.edu/courses/CHEM/871/>) or **481** (<http://bulletin.unl.edu/courses/CHEM/481/>) / **881** (<http://bulletin.unl.edu/courses/CHEM/881/>).

Applications of thermodynamics to biochemical phenomena, optical properties of proteins and polynucleotides, and kinetics of rapid reactions.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOC **Survey of Biochemistry**

839

Crosslisted as *BIOS 839, CHEM 839*

[LINK \(http://bulletin.unl.edu/courses/BIOC/839/\)](http://bulletin.unl.edu/courses/BIOC/839/)

Prereqs:

Permission

Comprehensive survey of biochemistry for incoming graduate students. Topics include those in [BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831/\)](http://bulletin.unl.edu/courses/BIOC/831/) and [832 \(http://bulletin.unl.edu/courses/BIOC/832/\)](http://bulletin.unl.edu/courses/BIOC/832/), but not all topics discussed in lecture periods. Depth enhanced by assigned readings.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

BIOC **Chemistry for Secondary School Classrooms**

869

Crosslisted as *BIOS 883, CHEM 869, TEAC 869*

[LINK \(http://bulletin.unl.edu/courses/BIOC/869/\)](http://bulletin.unl.edu/courses/BIOC/869/)

Credit in this course will not count towards a graduate degree in chemistry or biochemistry or biological sciences. Course taught via World Wide Web. Chemistry content for high school teachers organized according to the National Science Education Standards. Individual course coverage includes: content, integration with other sciences and mathematics, graphing calculators, probe-experiments, simulations, at-home experiments, teaching materials, and industrial applications related to the title description.

- A. Structure and Properties of Matter: Water and Solutions (1 cr)
- B. Structure and Properties of Matter: Periodicity (1 cr)
- D. Structure and Properties of Matter: Bonding and Structure (1 cr)
- E. Structure and Properties of Matter: Carbon Chemistry and Polymers (1 cr)
- J. Structure and Properties of Matter: Gases and the Atmosphere (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1 cr)
- L. Structure and Properties of Matter: Condensed States and Materials Science (1 cr)
- M. Interactions of Matter and Energy (1 cr)
- N. Chemistry of Life Processes: DNA (1 cr)
- P. Chemistry of Life Processes: Energy and Metabolism (1 cr)
- Q. Chemical Reactions: Equations and their Consequences (1 cr)
- R. Chemical Reactions: Acids and Bases (1 cr)
- T. Chemical Reactions: Kinetics (1 cr)
- U. Chemical Reactions: Oxidation, Reduction and Electrochemistry (1 cr)
- V. Equilibrium: Unifying Theme (1 cr)
- W. Conservation of Energy and the Increase in Disorder: Thermodynamics (1 cr)
- Y. Inquiry and the Nature of Science: Analysis and Instrumentation (1 cr)
- Z. Structure of Atoms: Nuclear Chemistry (1 cr)

Credit Hours:	1
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

BIOS

Cancer Biology

[LINK \(http://bulletin.unl.edu/courses/BIOS/402\)](http://bulletin.unl.edu/courses/BIOS/402)

402/802

Prereqs:

Twelve credit hours in biological sciences, preferable from BIOS102, 206, 213, 214, 103, or equivalents.

Principles of cancer genetics, cancer prevention, and new methods for diagnosis and therapy. Fundamentals of the cell and molecular events that lead to human cancer.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

BIOS

Biology of Cells and Organelles

[LINK \(http://bulletin.unl.edu/courses/BIOS/407\)](http://bulletin.unl.edu/courses/BIOS/407)

407/807

Prereqs:

BIOS 102 (<http://bulletin.unl.edu/courses/BIOS/102>) and 206 (<http://bulletin.unl.edu/courses/BIOS/206>).

Regulation and timing of macromolecular synthesis during the cell cycle; the genetic autonomy of mitochondria and chloroplasts.

Credit Hours:	4
Course Delivery:	Classroom

BIOS

Human Genetics

[LINK \(http://bulletin.unl.edu/courses/BIOS/412\)](http://bulletin.unl.edu/courses/BIOS/412)

412/812

Prereqs:

BIOS 101 (<http://bulletin.unl.edu/courses/BIOS/101>) and 101L (<http://bulletin.unl.edu/courses/BIOS/101L>), or 102 (<http://bulletin.unl.edu/courses/BIOS/102>); BIOS 206 (<http://bulletin.unl.edu/courses/BIOS/206>).

Three semesters high school algebra or equivalent recommended.

Genetic basis of human variation, with emphasis on methods of applying genetic principles to humankind. Genetic ratios in pooled data; population and quantitative genetics; consanguinity; polygenic inheritance; blood types; sex linkage; linkage and crossing over; sex determination; visible

Credit Hours:	3
Course Format:	Lecture 2, Recitation 1
Course Delivery:	Classroom

chromosome variation; mutation; heredity and environment; eugenics; anthropological genetics; molecular genetics and molecular basis of disease; human genome project.

BIOS

Developmental Biology

LINK (<http://bulletin.unl.edu/courses/BIOS/415>)

415/815

Prereqs:
12 hrs BIOS.

Survey of topics in developmental biology, both animal and plant development.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS

Advanced Genetics

LINK (<http://bulletin.unl.edu/courses/BIOS/418>)

418/818

Prereqs:
12 hrs BIOS including BIOS 206
(<http://bulletin.unl.edu/courses/BIOS/206>) or equivalent.

In-depth study of the principles and methodology of genetics, with emphasis on *Drosophila*: multiple alleles and complex loci, linkage and recombination, chromosome rearrangements, fine structure analysis, sex determination, recombinant DNA, and gene function in development.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS

Molecular Genetics

LINK (<http://bulletin.unl.edu/courses/BIOS/420>)

420/820

Crosslisted as VBMS 820

Prereqs:
12 hrs BIOS including BIOS 206
(<http://bulletin.unl.edu/courses/BIOS/206>) or equivalent.

Molecular basis of genetics. Gene structure and regulation, transposable elements, chromosome structure, DNA replication, and repair mechanisms and recombination.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS

Comparative Physiology

LINK (<http://bulletin.unl.edu/courses/BIOS/422>)

422/822

Prereqs:
BIOS 213 (<http://bulletin.unl.edu/courses/BIOS/213>).

BIOS 423 (<http://bulletin.unl.edu/courses/BIOS/423>)/823
(<http://bulletin.unl.edu/courses/BIOS/823>) recommended.

Comprehensive survey of comparative physiology with emphasis on the diversity of adaptations in basic physiological systems and the effects of environmental parameters upon such systems. Comparative physiology of osmoregulation, temperature regulation, metabolism, muscle, central nervous function, and sensory function.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

BIOS

Plant Biotechnology

LINK (<http://bulletin.unl.edu/courses/BIOS/425>)

425/825

Prereqs:
BIOS 109 (<http://bulletin.unl.edu/courses/BIOS/109>) and 206
(<http://bulletin.unl.edu/courses/BIOS/206>).

Introduction to the use of plants for basic and applied purposes by

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

deliberate manipulation of their genomes; techniques in plant genetic engineering; manipulations of plant development and metabolism; engineering pest, disease, and stress resistance; plants as bioreactors; and environmental and social impacts of plant biotechnology.

BIOS

Practical Bioinformatics Laboratory

[LINK \(http://bulletin.unl.edu/courses/BIOS/427\)](http://bulletin.unl.edu/courses/BIOS/427)

427/827

Prereqs:

[BIOS 206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206) or equivalent.

No computer programming skill is required.

Basic knowledge and skills needed for general bioinformatics, genomics and proteomics analyses. Various computational analyses including database search, sequence alignment, phylogenetic reconstruction, gene prediction/mining, microarray data analyses and protein structure analyses.

Credit Hours:	3
Course Delivery:	Classroom

BIOS

Perl Programming for Biological Applications

[LINK \(http://bulletin.unl.edu/courses/BIOS/428\)](http://bulletin.unl.edu/courses/BIOS/428)

428/828

Prereqs:

12 hrs BIOS.

Computer programming, using Perl, as applied to biological sciences, bioinformatics, computational biology, and genomics.

Credit Hours:	3
Max credits per degree:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS

Phylogenetic Biology

[LINK \(http://bulletin.unl.edu/courses/BIOS/429\)](http://bulletin.unl.edu/courses/BIOS/429)

429/829

Prereqs:

[BIOS 102 \(http://bulletin.unl.edu/courses/BIOS/102\)](http://bulletin.unl.edu/courses/BIOS/102) or [206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206); [BIOS 103 \(http://bulletin.unl.edu/courses/BIOS/103\)](http://bulletin.unl.edu/courses/BIOS/103); [BIOS 207 \(http://bulletin.unl.edu/courses/BIOS/207\)](http://bulletin.unl.edu/courses/BIOS/207) or parallel; or equivalent.

Principles of phylogenetic inference and emphasis on the application of phylogenetic hypotheses in biology and the biomedical sciences. How inferences derived from phylogenetic trees can be applied in different areas of biological investigation including systematics, biogeography, conservation biology, molecular evolution, genome structure, epidemiology, population biology, ecology, character evolution, behavior, and macroevolution.

Credit Hours:	4
Course Format:	Lecture 3, Studio 1, Recitation 1
Course Delivery:	Classroom

BIOS

Microbial Physiology

[LINK \(http://bulletin.unl.edu/courses/BIOS/440\)](http://bulletin.unl.edu/courses/BIOS/440)

440/840

Crosslisted as *VBMS 840*

Prereqs:

[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312) and either [313](http://bulletin.unl.edu/courses/BIOS/313) or [314](http://bulletin.unl.edu/courses/BIOS/314), or permission.

Molecular approaches to the study of prokaryotic cell structure and physiology, including growth, cell division, metabolism, and alternative microbial life styles.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS

Immunology

[LINK \(http://bulletin.unl.edu/courses/BIOS/443\)](http://bulletin.unl.edu/courses/BIOS/443)

443/843

Crosslisted as *VBMS 843*

Prereqs:

[BIOS 206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206) and one semester

Credit Hours:	3
Course Format:	Lecture 3

organic chemistry.

Course Delivery: Classroom

BIOS 102 (<http://bulletin.unl.edu/courses/BIOS/102>) recommended.

Fundamental consideration of cellular and humoral mechanisms of immunity, the structure and function of immunoglobulins, antigen-antibody interactions; hypersensitivity; transplantation and tumor immunity; immune and autoimmune disorders.

BIOS

Geomicrobiology

LINK (<http://bulletin.unl.edu/courses/BIOS/444>)

444/844

Crosslisted as *GEOL 444/844*

Prereqs:

3 hours biological sciences and 3 hours chemistry.

Lectures and discussions of primary literature regarding microorganisms and their role transforming Earth through geologic time.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOS

Field Epidemiology

LINK (<http://bulletin.unl.edu/courses/BIOS/452>)

452/852

Prereqs:

12 hours biological sciences.

Principles of epidemiology and the role in modern medicine. Combination of theory and practice with living populations.

Credit Hours: 4

Course Format: Lab 4, Lecture 3

Course Delivery: Classroom

ACE Outcomes: 10⁷

BIOS

Ecological Interactions

LINK (<http://bulletin.unl.edu/courses/BIOS/454>)

454/854

Crosslisted as *NRES 454/854*

Prereqs:

BIOS 102 (<http://bulletin.unl.edu/courses/BIOS/102>), 103 (<http://bulletin.unl.edu/courses/BIOS/103>), and either BIOS 207 (<http://bulletin.unl.edu/courses/BIOS/207>) or BIOS 220 (<http://bulletin.unl.edu/courses/BIOS/220>), or equivalent courses.

Nature and characteristics of populations and communities. Interactions within and between populations in community structure and dynamics. Direct and indirect interactions and ecological processes, competition, predation, parasitism, herbivory, and pollination. Structure, functioning and persistence of natural communities, foodweb dynamics, succession, and biodiversity.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

ACE Outcomes: 10⁷

BIOS

Great Plains Flora

LINK (<http://bulletin.unl.edu/courses/BIOS/455>)

455/855

Prereqs:

12 hrs biological sciences or permission.

May also be offered at Cedar Point Biological Station.

Plant identification. Field study of the flora in various habitats. Field trips include grassland and woodland vegetation of this region.

Credit Hours: 4

Course Format: Lab 9, Field 9

Course Delivery: Classroom

BIOS

Mathematical Models in Biology

LINK (<http://bulletin.unl.edu/courses/BIOS/456>)

456/856

Crosslisted as *NRES 456/856*

Prereqs:

Junior standing; major in the biological sciences; MATH 106

Credit Hours: 3

Course Format: Lecture 3

<http://bulletin.unl.edu/courses/MATH/106>) or [107](http://bulletin.unl.edu/courses/MATH/107)
(<http://bulletin.unl.edu/courses/MATH/107>).

Course Delivery: Classroom

Biological systems, from molecules to ecosystems, are analyzed using mathematical techniques. Strengths and weaknesses of mathematical approaches to biological questions. Brief review of college level math; introduction to modeling; oscillating systems in biology; randomness in biology; review of historically important and currently popular models in biology.

BIOS

Ecosystem Ecology

[LINK \(http://bulletin.unl.edu/courses/BIOS/457\)](http://bulletin.unl.edu/courses/BIOS/457)

457/857

Crosslisted as *GEOL 457/857*

Prereqs:

[BIOS 207 \(http://bulletin.unl.edu/courses/BIOS/207\)](http://bulletin.unl.edu/courses/BIOS/207) or [220](http://bulletin.unl.edu/courses/BIOS/220)
(<http://bulletin.unl.edu/courses/BIOS/220>); [CHEM 110](http://bulletin.unl.edu/courses/CHEM/110)
(<http://bulletin.unl.edu/courses/CHEM/110>); and [MATH 107](http://bulletin.unl.edu/courses/MATH/107)
(<http://bulletin.unl.edu/courses/MATH/107>).

Processes controlling the cycling of energy and elements in ecosystems and how both plant and animal species influence them. Human-influenced global and local changes that alter these cycles and ecosystem functioning.

Credit Hours: 4

Course Format: Lecture 3,
Recitation 1

Course Delivery: Classroom

ACE Outcomes: 10⁷

BIOS

Animal Behavior

[LINK \(http://bulletin.unl.edu/courses/BIOS/462\)](http://bulletin.unl.edu/courses/BIOS/462)

462/862

Prereqs:

12 hrs BIOS.

Introduction to animal behavior stressing the ethological approach. Anatomical and physiological bases of behavior, ontogenetic and phylogenetic observations, and the relations of animal behavior studies to genetics, ecology, taxonomy, and evolution. Assigned reading.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOS

Field Animal Behavior

[LINK \(http://bulletin.unl.edu/courses/BIOS/468\)](http://bulletin.unl.edu/courses/BIOS/468)

468/868

Prereqs:

12 hrs biological sciences or permission.

Offered in the summer at Cedar Point Biological Station. Requires extensive field work and independent research project.

Behavior of animals. Stresses methods for testing evolutionary hypotheses under field conditions with emphasis on foraging behavior, animal communication, and animal social systems.

Credit Hours: 4

Course Delivery: Classroom

BIOS

Prairie Ecology

[LINK \(http://bulletin.unl.edu/courses/BIOS/470\)](http://bulletin.unl.edu/courses/BIOS/470)

470/870

Prereqs:

[BIOS 207 \(http://bulletin.unl.edu/courses/BIOS/207\)](http://bulletin.unl.edu/courses/BIOS/207) or equivalent.

Extensive field work is required.

Structure, function, and distribution of communities. Interaction of different species with their biotic and abiotic environments.

Credit Hours: 4

Course Delivery: Classroom

BIOS

Plant Taxonomy

[LINK \(http://bulletin.unl.edu/courses/BIOS/471\)](http://bulletin.unl.edu/courses/BIOS/471)

471/871

Prereqs:
12 hrs biological sciences.

Principles of plant classification, with emphasis on taxonomic procedures, nomenclatural rules, and plant identification. Lab work on taxonomic analysis and plant identification.

Credit Hours:	4
Course Delivery:	Classroom

BIOS **Freshwater Algae**

473/873

[LINK \(http://bulletin.unl.edu/courses/BIOS/473\)](http://bulletin.unl.edu/courses/BIOS/473)

Prereqs:
12 hrs biological sciences.

May also be offered at Cedar Point Biological Station.

Classification, identification, and life histories of algae from freshwater, soil, and air.

Credit Hours:	4
Course Format:	Lecture 3, Lab 4
Course Delivery:	Classroom

BIOS **Ornithology**

475/875

[LINK \(http://bulletin.unl.edu/courses/BIOS/475\)](http://bulletin.unl.edu/courses/BIOS/475)

Prereqs:
12 hrs BIOS.

This course is a prerequisite for: [BIOS 475L \(http://bulletin.unl.edu/courses/BIOS/475L\)](http://bulletin.unl.edu/courses/BIOS/475L)

Optional lab (BIOS 475L (<http://bulletin.unl.edu/courses/BIOS/475L>)/875L (<http://bulletin.unl.edu/courses/BIOS/875L>)) by arrangement. May also be offered at Cedar Point Biological Station.

Review of avian biology. Functional morphology, evolutionary relationships and breeding biology.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS **Ornithology Lab**

475L/875L

[LINK \(http://bulletin.unl.edu/courses/BIOS/475L\)](http://bulletin.unl.edu/courses/BIOS/475L)

Prereqs:
Parallel BIOS 475 (<http://bulletin.unl.edu/courses/BIOS/475>)/875 (<http://bulletin.unl.edu/courses/BIOS/875>) and permission.

Credit Hours:	1
Course Format:	Lab 3
Course Delivery:	Classroom

BIOS **Bioinformatics and Molecular Evolution**

477/877

[LINK \(http://bulletin.unl.edu/courses/BIOS/477\)](http://bulletin.unl.edu/courses/BIOS/477)

Prereqs:
[BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [101L \(http://bulletin.unl.edu/courses/BIOS/101L\)](http://bulletin.unl.edu/courses/BIOS/101L), or [102 \(http://bulletin.unl.edu/courses/BIOS/102\)](http://bulletin.unl.edu/courses/BIOS/102); [BIOS 206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206) or parallel or [CHEM 251 \(http://bulletin.unl.edu/courses/CHEM/251\)](http://bulletin.unl.edu/courses/CHEM/251) or [BIOC 221 \(http://bulletin.unl.edu/courses/BIOC/221\)](http://bulletin.unl.edu/courses/BIOC/221), or equivalent.

Basic statistics recommended.

Pairwise and multiple alignments, sequence similarity and domain search, distance estimation, phylogenetic methods, gene mining, protein classification and structure. Algorithms used in bioinformatics as well as fundamental concepts of molecular evolution that underlie various bioinformatics methods.

Credit Hours:	3
Course Delivery:	Classroom

BIOS **Plant Anatomy**

[LINK \(http://bulletin.unl.edu/courses/BIOS/478\)](http://bulletin.unl.edu/courses/BIOS/478)

478/878

Prereqs:
8 hrs biological sciences, [BIOS 109](#)
(<http://bulletin.unl.edu/courses/BIOS/109>) recommended.

This course is a prerequisite for: [BIOS 879](http://bulletin.unl.edu/courses/BIOS/879) (<http://bulletin.unl.edu/courses/BIOS/879>)

Development, structure, and function of tissues and organs of the higher plants. Relationships of structure to physiology and ecology of plants.

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Course Delivery:	Classroom

BIOS

Field Parasitology

[LINK \(http://bulletin.unl.edu/courses/BIOS/487\)](http://bulletin.unl.edu/courses/BIOS/487)

487/887

Prereqs:
12 hrs biological sciences.

Offered summers only at Cedar Point Biological Station.

Animal host–parasite relationships, epizootiology, ecology, host distribution, classification, and life cycle stages of animal parasites.

Credit Hours:	4
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

BIOS

Natural History of the Invertebrates

[LINK \(http://bulletin.unl.edu/courses/BIOS/488\)](http://bulletin.unl.edu/courses/BIOS/488)

488/888

Prereqs:
12 hrs biological sciences.

Offered summers only at Cedar Point Biological Station.

Field course in invertebrate community relations stressing on–site observation of community components, natural history, and interactions.

Credit Hours:	4
Course Delivery:	Classroom

BIOS

Ichthyology

[LINK \(http://bulletin.unl.edu/courses/BIOS/489\)](http://bulletin.unl.edu/courses/BIOS/489)

489/889

Crosslisted as *NRES 489/889*

Prereqs:
12 hrs biological sciences.

May also be offered at Cedar Point Biological Station.

Fishes, their taxonomy, physiology, behavior, and ecology. Dynamics of fish stocks and factors regulating their production.

Credit Hours:	4
Course Format:	Lecture 3, Lab 4
Course Delivery:	Classroom

BIOS

Special Topics in Biological Sciences

[LINK \(http://bulletin.unl.edu/courses/BIOS/497\)](http://bulletin.unl.edu/courses/BIOS/497)

497/897

Prereqs:
12 hrs biological sciences and permission.

Topics vary by term.

Credit Hours:	1–4
Max credits per degree:	24
Course Delivery:	Classroom

BIOS

Independent Research in Biological Sciences

[LINK \(http://bulletin.unl.edu/courses/BIOS/498\)](http://bulletin.unl.edu/courses/BIOS/498)

498/898

Prereqs:
12 hrs BIOS and permission.

Four credit hours may be counted toward the undergraduate BIOS major.

Credit Hours:	1–8
Max credits per degree:	8

Before registering, arrangements must be made with a faculty member in BIOS to reach an agreement on the scope and to determine the amount of credit for the project.

Independent study and laboratory or field investigation of a specific problem.

Course Format: Independent Study

Course Delivery: Classroom

BIOS 803 Principles of Evolution

[LINK \(http://bulletin.unl.edu/courses/BIOS/803\)](http://bulletin.unl.edu/courses/BIOS/803)

Micro- and macroevolutionary patterns and processes. Population genetics, evolutionary ecology, speciation, phylogenetic systematics, and biogeographic patterns of extant and extinct taxa.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

BIOS 804 Principles of Behavioral Ecology

[LINK \(http://bulletin.unl.edu/courses/BIOS/804\)](http://bulletin.unl.edu/courses/BIOS/804)

Introduction to the ecology and evolution of animal behavior.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

BIOS 805 Principles of Ecology

[LINK \(http://bulletin.unl.edu/courses/BIOS/805\)](http://bulletin.unl.edu/courses/BIOS/805)

Ecological principles at the populations, community, and ecosystem levels. Population growth, meta-population dynamics, competitive and predatory interactions, temporal and spatial variation in community food webs, trophic cascades, patterns and mechanisms underlying species diversity, ecosystem processes, nutrient cycling, and global change.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

BIOS 809 Professionalism

[LINK \(http://bulletin.unl.edu/courses/BIOS/809\)](http://bulletin.unl.edu/courses/BIOS/809)

P/N only. Discussion of skills needed to be a professional scientist including: writing, submitting, editing, and revision of journal articles and grant proposals; preparation or oral and poster presentations; and ethical issues in research and teaching.

Credit Hours: 1

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

BIOS 811 Plant Tissue Culture

Crosslisted as *HORT 811, NRES 811*

[LINK \(http://bulletin.unl.edu/courses/BIOS/811\)](http://bulletin.unl.edu/courses/BIOS/811)

Prereqs:
[BIOS 109 \(http://bulletin.unl.edu/courses/BIOS/109\)](http://bulletin.unl.edu/courses/BIOS/109); [AGRO 325 \(http://bulletin.unl.edu/courses/AGRO/325\)](http://bulletin.unl.edu/courses/AGRO/325) which includes [CHEM 109 \(http://bulletin.unl.edu/courses/CHEM/109\)](http://bulletin.unl.edu/courses/CHEM/109), [110 \(http://bulletin.unl.edu/courses/CHEM/110\)](http://bulletin.unl.edu/courses/CHEM/110); or equivalent [CHEM 110 \(http://bulletin.unl.edu/courses/CHEM/110\)](http://bulletin.unl.edu/courses/CHEM/110); or equivalent

Survey of techniques used in plant cell, tissue and organ culture, including current research. Laboratory emphasizes practical manipulation of plant cells, tissues, and organs, including examples from woody and herbaceous plant species.

Credit Hours: 4

Course Format: Lab 4, Lecture 2

Campus:

Course Delivery: Classroom

Computer-Aided Sequence Analysis PrimerCrosslisted as *VBMS 818*LINK (<http://bulletin.unl.edu/courses/BIOS/816>)**Prereqs:**

BIOC 831 (<http://bulletin.unl.edu/courses/BIOC/831>) or **BIOS 801** (<http://bulletin.unl.edu/courses/BIOS/801>) or **820** (<http://bulletin.unl.edu/courses/BIOS/820>)

Introductory course in biological sequence display, analysis and manipulation with computers. Applied rather than theoretical aspects of different programs are emphasized providing skills to satisfy the analysis demands of molecular biology research. Students completing this course will be able to search, display and analyze the biological information content of macromolecules.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

Advanced Animal PhysiologyLINK (<http://bulletin.unl.edu/courses/BIOS/823>)**Prereqs:**

BIOS 213 (<http://bulletin.unl.edu/courses/BIOS/213>) or equivalent and one semester organic chemistry

More detailed mechanisms operating in selected physiology systems of man and other animals. Neural, cardiovascular, renal, and endocrine systems. Additional areas examined if time permits.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Animal BiochemistryCrosslisted as *VBMS 835*LINK (<http://bulletin.unl.edu/courses/BIOS/835>)**Prereqs:**

BIOC 831 (<http://bulletin.unl.edu/courses/BIOC/831>) or permission

Biochemistry of animal cells and tissues, with integration of major metabolic pathways and aspects of their control mechanism.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

Woody Plant Growth and DevelopmentCrosslisted as *HORT 849, NRES 849*LINK (<http://bulletin.unl.edu/courses/BIOS/849>)**Prereqs:**

CHEM 251 (<http://bulletin.unl.edu/courses/CHEM/251>) and **AGRO 325** (<http://bulletin.unl.edu/courses/AGRO/325>)

Offered fall semester of odd-numbered calendar years. Plant growth and development specifically of woody plants as viewed from an applied whole-plant physiological level. Plant growth regulators, structure and secondary growth characteristics of woody plants, juvenility, senescence, abscission and dormancy.

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

Advanced LimnologyCrosslisted as *NRES 866*LINK (<http://bulletin.unl.edu/courses/BIOS/860>)**Prereqs:**

NRES 859 (<http://bulletin.unl.edu/courses/NRES/859>) or equivalent

In-depth consideration of selected areas of limnology including stream limnology, primary production, secondary production, nutrient cycling, and eutrophication.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Principles of Plant Pathology ILINK (<http://bulletin.unl.edu/courses/BIOS/864A>)

864A

Prereqs:
[PLPT 369 \(http://bulletin.unl.edu/courses/PLPT/369\)](http://bulletin.unl.edu/courses/PLPT/369) or equivalent; an introduction to biochemistry course

This course is a prerequisite for: [BIOS 866 \(http://bulletin.unl.edu/courses/BIOS/866\)](http://bulletin.unl.edu/courses/BIOS/866), [BIOS 965 \(http://bulletin.unl.edu/courses/BIOS/965\)](http://bulletin.unl.edu/courses/BIOS/965)

Epidemiology and disease control through cultural, biological, chemical and host plant resistance strategies.

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS

864B

Principles of Plant Pathology II

[LINK \(http://bulletin.unl.edu/courses/BIOS/864B\)](http://bulletin.unl.edu/courses/BIOS/864B)

Prereqs:
[PLPT 369 \(http://bulletin.unl.edu/courses/PLPT/369\)](http://bulletin.unl.edu/courses/PLPT/369) or equivalent; an introduction to biochemistry course

Molecular and cellular approach to the study of plant pathological principles.

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS

865

Insect Transmission of Plant Diseases

Crosslisted as *ENTO 865*

[LINK \(http://bulletin.unl.edu/courses/BIOS/865\)](http://bulletin.unl.edu/courses/BIOS/865)

Prereqs:
8 hrs biological sciences including [BIOS 864 \(http://bulletin.unl.edu/courses/BIOS/864\)](http://bulletin.unl.edu/courses/BIOS/864) preceding or parallel and 6 hrs entomology or biological sciences (zoology)

*ENTO *865 is offered even-numbered calendar years.*

Relationships between plant diseases and their vectors with emphasis on virus diseases and transmission by aphids.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS

866

Phytopathogenic Nematodes

[LINK \(http://bulletin.unl.edu/courses/BIOS/866\)](http://bulletin.unl.edu/courses/BIOS/866)

Prereqs:
[BIOS 864A \(http://bulletin.unl.edu/courses/BIOS/864A\)](http://bulletin.unl.edu/courses/BIOS/864A) or *864B, or permission

Offered odd-numbered calendar years. Lecture and laboratory course concerning principles of nematode-induced disease of plants.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS

867

Plant Pathogenic Bacteria

[LINK \(http://bulletin.unl.edu/courses/BIOS/867\)](http://bulletin.unl.edu/courses/BIOS/867)

Prereqs:
[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312), [864A \(http://bulletin.unl.edu/courses/BIOS/864A\)](http://bulletin.unl.edu/courses/BIOS/864A) or *864B, and [CHEM 832 \(http://bulletin.unl.edu/courses/CHEM/832\)](http://bulletin.unl.edu/courses/CHEM/832) or [836 \(http://bulletin.unl.edu/courses/CHEM/836\)](http://bulletin.unl.edu/courses/CHEM/836) or permission

Offered even-numbered calendar years. Principles and methods of identification, chemistry and function of cell constituents, role and characterization of antibacterial agents, spread and survival mechanisms of pathogenicity, host-parasite relations and control measures.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS

Plant Pathogenic Bacteria Lab

[LINK \(http://bulletin.unl.edu/courses/BIOS/867L\)](http://bulletin.unl.edu/courses/BIOS/867L)

867L

Prereqs:
Parallel registration in BIOS *867

Credit Hours:	1
Course Format:	Lab 3
Campus:	
Course Delivery:	Classroom

BIOS

869

Phytopathogenic Fungi

[LINK \(http://bulletin.unl.edu/courses/BIOS/869\)](http://bulletin.unl.edu/courses/BIOS/869)

Prereqs:
[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312), [805 \(http://bulletin.unl.edu/courses/BIOS/805\)](http://bulletin.unl.edu/courses/BIOS/805), [864A \(http://bulletin.unl.edu/courses/BIOS/864A\)](http://bulletin.unl.edu/courses/BIOS/864A) or *864B; or equivalent and permission

Credit Hours:	3
Course Format:	Lab 2, Lecture 1
Campus:	
Course Delivery:	Classroom

Offered even-numbered calendar years. Ecology and taxonomy of plant pathogenic and plant associated fungi with emphasis on environment influences and on microbial interactions leading to biological control.

BIOS

879

Plant Growth and Development

[LINK \(http://bulletin.unl.edu/courses/BIOS/879\)](http://bulletin.unl.edu/courses/BIOS/879)

Prereqs:
[AGRO 325 \(http://bulletin.unl.edu/courses/AGRO/325\)](http://bulletin.unl.edu/courses/AGRO/325); [BIOS 478 \(http://bulletin.unl.edu/courses/BIOS/478\)](http://bulletin.unl.edu/courses/BIOS/478); [878 \(http://bulletin.unl.edu/courses/BIOS/878\)](http://bulletin.unl.edu/courses/BIOS/878); [CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252) or [BIOC/BIOS/CHEM 431 \(http://bulletin.unl.edu/courses/BIOC/BIOS/CHEM/431\)](http://bulletin.unl.edu/courses/BIOC/BIOS/CHEM/431); [831 \(http://bulletin.unl.edu/courses/CHEM/431\)](http://bulletin.unl.edu/courses/CHEM/431); [831 \(http://bulletin.unl.edu/courses/CHEM/831\)](http://bulletin.unl.edu/courses/CHEM/831)

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Processes involved in plant growth and development, seed formation, dormancy, germination, differential growth, flowering, and senescence. The role of extrinsic factors (e.g. light, water, and gravity) and intrinsic factors (e.g. formones, pigments, and energy sources) on these processes.

BIOS

881

Helminthology

[LINK \(http://bulletin.unl.edu/courses/BIOS/881\)](http://bulletin.unl.edu/courses/BIOS/881)

Prereqs:
12 hrs biological sciences including [BIOS 385 \(http://bulletin.unl.edu/courses/BIOS/385\)](http://bulletin.unl.edu/courses/BIOS/385) and permission

Credit Hours:	4
Course Format:	Lab 6, Lecture 2
Campus:	
Course Delivery:	Classroom

Classification, morphology, biology of helminth parasites, chiefly of animals other than humans. Includes collection, preparation of specimens, and technique.

BIOS

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/BIOS/899\)](http://bulletin.unl.edu/courses/BIOS/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

BIOS

910

Developmental Genetics

[LINK \(http://bulletin.unl.edu/courses/BIOS/910\)](http://bulletin.unl.edu/courses/BIOS/910)

Prereqs:
General genetics or equivalent

Effects of various mutations on developing biological systems. Mechanisms by which the abnormal genome expresses its phenotype. Special consideration to vertebrate organisms.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS

915

Graduate Seminar

[LINK \(http://bulletin.unl.edu/courses/BIOS/915\)](http://bulletin.unl.edu/courses/BIOS/915)

Prereqs:
Permission

Topics include the following:

- A. Graduate Seminar
- D. Botany
- E. Ecology
- G. Cell Biology and Genetics
- M. Microbiology
- P. Parasitology
- W. Evolutionary Biology
- Z. Other Topics

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

BIOS

916

Research Seminar

[LINK \(http://bulletin.unl.edu/courses/BIOS/916\)](http://bulletin.unl.edu/courses/BIOS/916)

Aimed at improving research design in evolutionary biology. Experience with presenting scientific ideas, as well as help with specific project.

Credit Hours:	1
Max credits per degree:	10
Campus:	
Course Delivery:	Classroom

BIOS

924

Molecular Phylogenetics

[LINK \(http://bulletin.unl.edu/courses/BIOS/924\)](http://bulletin.unl.edu/courses/BIOS/924)

Prereqs:
Permission

Theory and methodology of phylogenetic inference based on molecular characters (mainly DNA sequences). Population genetic principles and analysis of microsatellite loci. Emphasis on project design, data analysis, and hypothesis testing. Training on current computer programs for phylogenetic analysis acquired.

Credit Hours:	4
Course Format:	Lab 1, Lecture
Campus:	
Course Delivery:	Classroom

BIOS

940

Microbial Diversity

[LINK \(http://bulletin.unl.edu/courses/BIOS/940\)](http://bulletin.unl.edu/courses/BIOS/940)

Prereqs:
6 hrs microbiology and [BIOC 831](http://bulletin.unl.edu/courses/BIOC/831)
(<http://bulletin.unl.edu/courses/BIOC/831>) or permission

Diversity of microbial structures, shape, movement, metabolism, symbioses, and adaptations to extreme environments using both bacterial and fungal examples. A physiological approach used throughout.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS

941

Physiology of Anaerobic Microorganisms

[LINK \(http://bulletin.unl.edu/courses/BIOS/941\)](http://bulletin.unl.edu/courses/BIOS/941)

Prereqs:
[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312) and [831 \(http://bulletin.unl.edu/courses/BIOS/831\)](http://bulletin.unl.edu/courses/BIOS/831) or permission

[BIOS 840 \(http://bulletin.unl.edu/courses/BIOS/840\)](http://bulletin.unl.edu/courses/BIOS/840) recommended. Methods of energy transduction, growth, and metabolism of anaerobic microorganisms from a variety of habitats. Microbes considered range from methane producers to photosynthetic bacteria. Molecular and phylogenetic analyses as well as interactions among microorganisms in anaerobic environments.

BIOS **942** Genetics, Genomics, and Bioinformatics of Prokaryotes

Crosslisted as *VBMS 942*

[LINK \(http://bulletin.unl.edu/courses/BIOS/942\)](http://bulletin.unl.edu/courses/BIOS/942)

Prereqs:
[BIOS 241 \(http://bulletin.unl.edu/courses/BIOS/241\)](http://bulletin.unl.edu/courses/BIOS/241) and [312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312), or permission

Prokaryotic gene regulation, DNA exchange, DNA recombination and repair, comparative prokaryotic genomics and computer-based methods of analysis.

BIOS **945** RNA Biology

[LINK \(http://bulletin.unl.edu/courses/BIOS/945\)](http://bulletin.unl.edu/courses/BIOS/945)

Prereqs:
[BIOS 820 \(http://bulletin.unl.edu/courses/BIOS/820\)](http://bulletin.unl.edu/courses/BIOS/820) or permission

Role of RNA in regulation of gene expression and in determining genome structure. Regulation of mRNA stability and function, RNA as regulatory molecules and enzymes, and computer-based methods of analysis.

BIOS **947** Industrial Microbiology and Biotechnology

[LINK \(http://bulletin.unl.edu/courses/BIOS/947\)](http://bulletin.unl.edu/courses/BIOS/947)

Prereqs:
[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312) or equivalent, [BIOS 831 \(http://bulletin.unl.edu/courses/BIOS/831\)](http://bulletin.unl.edu/courses/BIOS/831) or [840 \(http://bulletin.unl.edu/courses/BIOS/840\)](http://bulletin.unl.edu/courses/BIOS/840) recommended, or permission

Biosynthetic activity of bacteria, yeasts, and fungi, including genetically engineered organisms: antibiotic, amino acid, enzyme, and vitamin production; polysaccharides, steroid transformation, microbes as food sources, microbial insecticides, petroleum microbiology, fermentation engineering, and mass production of microbial cells.

BIOS **950** Medical Molecular Virology

Crosslisted as *VBMS 950*

[LINK \(http://bulletin.unl.edu/courses/BIOS/950\)](http://bulletin.unl.edu/courses/BIOS/950)

Prereqs:
[BIOS/CHEM/BIOC 431 \(http://bulletin.unl.edu/courses/BIOS/CHEM/BIOC/431\)](http://bulletin.unl.edu/courses/BIOS/CHEM/BIOC/431)/[831 \(http://bulletin.unl.edu/courses/BIOS/CHEM/BIOC/831\)](http://bulletin.unl.edu/courses/BIOS/CHEM/BIOC/831) and [432 \(http://bulletin.unl.edu/courses/BIOS/CHEM/BIOC/432\)](http://bulletin.unl.edu/courses/BIOS/CHEM/BIOC/432)/[832 \(http://bulletin.unl.edu/courses/BIOS/CHEM/BIOC/832\)](http://bulletin.unl.edu/courses/BIOS/CHEM/BIOC/832); *VBMS *852*

Offered odd-numbered calendar years. Current topics in molecular virology relevant to the natural history and pathogenesis of viral diseases of humans and animals.

BIOS **951** Quantitative Analysis in Biology

[LINK \(http://bulletin.unl.edu/courses/BIOS/951\)](http://bulletin.unl.edu/courses/BIOS/951)

Credit Hours: 3

Campus:

Course Delivery: Classroom

Credit Hours: 3

Campus:

Course Delivery: Classroom

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

Credit Hours: 3

Campus:

Course Delivery: Classroom

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

951**Prereqs:**
Permission

Surveys the kinds of quantitative problems that arise in biological research, particularly in field-oriented disciplines such as ecology, evolution and behavior, and the quantitative methods used to solve them. Practical learning of the strengths and weaknesses of different methods through the analysis of biological data on microcomputers.

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

BIOS
953 **Advanced Population Ecology**

[LINK \(http://bulletin.unl.edu/courses/BIOS/953\)](http://bulletin.unl.edu/courses/BIOS/953)**Prereqs:**
Permission

Ecological phenomena in populations. Quantitative description of population processes, life history strategies, foraging theory, resource interactions, population dynamics of competition and predation, and selected current topics in population ecology. Research methodology and historical development of the field as well as analysis, criticism, and synthesis of current research in the area.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS
955 **Advanced Behavioral Ecology**

[LINK \(http://bulletin.unl.edu/courses/BIOS/955\)](http://bulletin.unl.edu/courses/BIOS/955)**Prereqs:**
Previous course work in ecology or behavioral comparative psychology

Evolution of behavioral attributes of animals with respect to ecological conditions. Overview of the field and area of active research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

BIOS
956 **Biochemical Adaptation**

[LINK \(http://bulletin.unl.edu/courses/BIOS/956\)](http://bulletin.unl.edu/courses/BIOS/956)**Prereqs:**
Permission; a course in biochemistry is strongly recommended

Major aspects of molecular/physiological adaptation in plants and animals including the evolution of metabolic pathways, enzyme function, and gene regulation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS
958 **Genetic Ecology**

[LINK \(http://bulletin.unl.edu/courses/BIOS/958\)](http://bulletin.unl.edu/courses/BIOS/958)**Prereqs:**
Background in genetics and ecology

Interplay of genetics and ecology. Genetic basis of adaptation to environmental conditions and particularly the variety of ways in which this may occur.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS
959 **Advanced Community Ecology**

[LINK \(http://bulletin.unl.edu/courses/BIOS/959\)](http://bulletin.unl.edu/courses/BIOS/959)**Prereqs:**

Credit Hours:	3
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Permission

Ecological and evolutionary forces responsible for patterns of numbers and types of species which coexist and form ecological communities. Mathematical models, coevolution, random processes, historical background, and examination of biotic interactions responsible for the observed patterns. Emphasis on critique and synthesis of current theory in light of empirical evidence.

Campus:	
Course Delivery:	Classroom

BIOS

960

Biosystematics and Nomenclature

Crosslisted as *ENTO 960*

[LINK \(http://bulletin.unl.edu/courses/BIOS/960\)](http://bulletin.unl.edu/courses/BIOS/960)

Methods and principles of systematics and nomenclature.

Credit Hours:	2-3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

BIOS

962

Animal Communication

[LINK \(http://bulletin.unl.edu/courses/BIOS/962\)](http://bulletin.unl.edu/courses/BIOS/962)

Prereqs:

Course work in ecology and/or evolution and/or animal behavior, or permission

Course work in physics recommended. Advanced introduction to the evolution of animal communication. Addresses evolution of signal structure (including acoustic, visual, electrical, and chemical signals), environmental effects on signal transmission, and the evolution of receiver responses to signals.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS

964

Signal Transduction

Crosslisted as *VBMS 964*

[LINK \(http://bulletin.unl.edu/courses/BIOS/964\)](http://bulletin.unl.edu/courses/BIOS/964)

Prereqs:

[BIOS 832 \(http://bulletin.unl.edu/courses/BIOS/832\)](http://bulletin.unl.edu/courses/BIOS/832), [BIOS 820 \(http://bulletin.unl.edu/courses/BIOS/820\)](http://bulletin.unl.edu/courses/BIOS/820) or equivalent, or permission

Molecular basis of genetics in eukaryotes. Gene structure and regulation, transposable elements, chromosome structure, DNA replication and repair mechanisms and recombination.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS

965

Plant Pathology-Plant Virology

[LINK \(http://bulletin.unl.edu/courses/BIOS/965\)](http://bulletin.unl.edu/courses/BIOS/965)

Prereqs:

[BIOS 864A \(http://bulletin.unl.edu/courses/BIOS/864A\)](http://bulletin.unl.edu/courses/BIOS/864A) or *864B or permission

Offered odd-numbered calendar years.

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS

966

Advanced Viral Pathogenesis

Crosslisted as *VBMS 966*

[LINK \(http://bulletin.unl.edu/courses/BIOS/966\)](http://bulletin.unl.edu/courses/BIOS/966)

Prereqs:

[BIOS 843 \(http://bulletin.unl.edu/courses/BIOS/843\)](http://bulletin.unl.edu/courses/BIOS/843); [VBMS 852 \(http://bulletin.unl.edu/courses/VBMS/852\)](http://bulletin.unl.edu/courses/VBMS/852) or equivalent introductory course in virology or experience

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Advanced analysis on the mechanisms of cell and tissue damage by viruses, the spread of viruses through the body, and the host response.

BIOS

968

Seminar in Plant Pathology

[LINK \(http://bulletin.unl.edu/courses/BIOS/968\)](http://bulletin.unl.edu/courses/BIOS/968)

Prereqs:
Permission

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

BIOS

99

Assessment of the Major

[LINK \(http://bulletin.unl.edu/courses/BIOS/99\)](http://bulletin.unl.edu/courses/BIOS/99)

Prereqs:
Senior standing.

Required for graduation. Pass/No Pass only.

Completion of a standardized cumulative examination, an exit interview and other assessment activities.

Credit Hours:	0
Course Format:	Lecture, Personalized System of Instruction
Course Delivery:	Classroom

BIOS

996

Research

[LINK \(http://bulletin.unl.edu/courses/BIOS/996\)](http://bulletin.unl.edu/courses/BIOS/996)

Prereqs:
Permission of instructor and departmental Graduate Committee

other than thesis.

Credit Hours:	3-10
Campus:	
Course Delivery:	Classroom

BIOS

998

Special Topics in the Life Sciences

[LINK \(http://bulletin.unl.edu/courses/BIOS/998\)](http://bulletin.unl.edu/courses/BIOS/998)

Prereqs:
Permission

Reviews of specialized subject areas. Subject dependent on student demand and availability of staff.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

BIOS

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/BIOS/999\)](http://bulletin.unl.edu/courses/BIOS/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

CHEM

932

Proteins

Crosslisted as BIOS 932, BIOC 932

[LINK \(http://bulletin.unl.edu/courses/CHEM/932\)](http://bulletin.unl.edu/courses/CHEM/932)

Prereqs:
BIOC/BIOS/CHEM 832 (<http://bulletin.unl.edu/courses/CHEM/832>) or BIOC/BIOS/CHEM *839

Protein structure and function.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM

933**Enzymes**Crosslisted as *BIOS 933, BIOC 933*[LINK \(http://bulletin.unl.edu/courses/CHEM/933\)](http://bulletin.unl.edu/courses/CHEM/933)**Prereqs:****BIOC/BIOS/CHEM 432** (<http://bulletin.unl.edu/courses/CHEM/432>)/**832** (<http://bulletin.unl.edu/courses/CHEM/832>), or **BIOC/BIOS/CHEM *839**

Kinetics regulation and reaction mechanisms of enzymes.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM

934**Genome Dynamics and Gene Expression**Crosslisted as *BIOS 934, BIOC 934*[LINK \(http://bulletin.unl.edu/courses/CHEM/934\)](http://bulletin.unl.edu/courses/CHEM/934)**Prereqs:****BIOC/BIOS/CHEM 832** (<http://bulletin.unl.edu/courses/CHEM/832>) or permission

Detailed examination of dynamic control mechanisms of genome maintenance and gene regulation. Mechanisms of transcription, translation, and replication based on analysis of current and seminal literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CHEM

935**Metabolic Function and Dysfunction**Crosslisted as *BIOS 935, BIOC 935*[LINK \(http://bulletin.unl.edu/courses/CHEM/935\)](http://bulletin.unl.edu/courses/CHEM/935)**Prereqs:****BIOC/CHEM/BIOS 432** (<http://bulletin.unl.edu/courses/BIOS/432>)/**832** (<http://bulletin.unl.edu/courses/BIOS/832>) and permission*BIOC/CHEM/BIOS 935* (<http://bulletin.unl.edu/courses/BIOS/935>) is offered even-numbered calendar years.

Current metabolic research at the bioenergetic, metabolomic, and molecular level. The normal metabolic processes that go awry in cancer, obesity, and oxidative stress.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENTO

402/802**Aquatic Insects**Crosslisted as *BIOS 485/885, NRES 402/802*[LINK \(http://bulletin.unl.edu/courses/ENTO/402\)](http://bulletin.unl.edu/courses/ENTO/402)**Prereqs:****12 hrs biological sciences.***Offered fall semester of odd-numbered calendar years. Offered summer semester of even-numbered calendar years on the Internet via the World Wide Web (WWW).*

Biology and ecology of aquatic insects.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom, Web

ENTO

402L/802L**Identification of Aquatic Insects**Crosslisted as *BIOS 485L/885L, NRES 402L/802L*[LINK \(http://bulletin.unl.edu/courses/ENTO/402L\)](http://bulletin.unl.edu/courses/ENTO/402L)**Prereqs:****Parallel ENTO 802** (<http://bulletin.unl.edu/courses/ENTO/802>), **NRES 402** (<http://bulletin.unl.edu/courses/NRES/402>)/**802** (<http://bulletin.unl.edu/courses/NRES/802>), **BIOS 485** (<http://bulletin.unl.edu/courses/BIOS/485>)/**885** (<http://bulletin.unl.edu/courses/BIOS/885>).*ENTO 402L* (<http://bulletin.unl.edu/courses/ENTO/402L>)/**802L** (<http://bulletin.unl.edu/courses/ENTO/802L>) is offered fall semester of odd-numbered calendar years. *BIOS 485L* (<http://bulletin.unl.edu/courses/BIOS/485L>)/**885L** (<http://bulletin.unl.edu/courses/BIOS/885L>) and *NRES 402L* (<http://bulletin.unl.edu/courses/NRES/402L>)/**802L**

Credit Hours:	1
Course Format:	Lab
Course Delivery:	Classroom

(<http://bulletin.unl.edu/courses/NRES/802L>) may be offered in the spring semester.

Identification of aquatic insects to the family level.

ENTO

406/806

Insect Ecology

Crosslisted as BIOS 406/806

[LINK \(http://bulletin.unl.edu/courses/ENTO/406\)](http://bulletin.unl.edu/courses/ENTO/406)

Prereqs:

BIOS/NRES 220 (<http://bulletin.unl.edu/courses/NRES/220>) and **222** (<http://bulletin.unl.edu/courses/NRES/222>).

ENTO 406 (<http://bulletin.unl.edu/courses/ENTO/406>)/*806* (<http://bulletin.unl.edu/courses/ENTO/806>) is offered spring semester of odd numbered calendar years. *ENTO 406* (<http://bulletin.unl.edu/courses/ENTO/406>)/*806* (<http://bulletin.unl.edu/courses/ENTO/806>) is also offered on the internet via the World Wide Web (WWW) in the spring semester of odd-numbered calendar years.

Biotic and abiotic factors as they influence insect development, behavior, distribution, and abundance.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ENTO

411/811

Field Entomology

Crosslisted as BIOS 482/882

[LINK \(http://bulletin.unl.edu/courses/ENTO/411\)](http://bulletin.unl.edu/courses/ENTO/411)

Prereqs:

12 hrs biological sciences.

Offered only at Cedar Point Biological Station.

Field course in insect taxonomy and biology emphasizing field collection, specimen preparation, classification, and insect natural history.

Credit Hours:	4
Course Delivery:	Classroom

FDST

405/405X/805

Food Microbiology

Crosslisted as BIOS 445/845

[LINK \(http://bulletin.unl.edu/courses/FDST/405\)](http://bulletin.unl.edu/courses/FDST/405)

Prereqs:

BIOS 312 (<http://bulletin.unl.edu/courses/BIOS/312>); **CHEM 251** (<http://bulletin.unl.edu/courses/CHEM/251>); **BIOC 321** (<http://bulletin.unl.edu/courses/BIOC/321>).

This course is a prerequisite for: [FDST 406](http://bulletin.unl.edu/courses/FDST/406) (<http://bulletin.unl.edu/courses/FDST/406>), [FDST 415](http://bulletin.unl.edu/courses/FDST/415) (<http://bulletin.unl.edu/courses/FDST/415>), [FDST 425](http://bulletin.unl.edu/courses/FDST/425) (<http://bulletin.unl.edu/courses/FDST/425>), [FDST 455](http://bulletin.unl.edu/courses/FDST/455) (<http://bulletin.unl.edu/courses/FDST/455>), [FDST 455L](http://bulletin.unl.edu/courses/FDST/455L) (<http://bulletin.unl.edu/courses/FDST/455L>), [FDST 460](http://bulletin.unl.edu/courses/FDST/460) (<http://bulletin.unl.edu/courses/FDST/460>), [FDST 460L](http://bulletin.unl.edu/courses/FDST/460L) (<http://bulletin.unl.edu/courses/FDST/460L>), [FDST 875](http://bulletin.unl.edu/courses/FDST/875) (<http://bulletin.unl.edu/courses/FDST/875>), [FDST 877](http://bulletin.unl.edu/courses/FDST/877) (<http://bulletin.unl.edu/courses/FDST/877>).

Nature, physiology, and interactions of microorganisms in foods. Introduction to food-borne diseases, the effect of food processing systems on the microflora of foods, principles of food preservation, food spoilage, and foods produced by microorganisms. Food plant sanitation and criteria for establishing microbial standards for food products.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

FDST

406/806

Food Microbiology Laboratory

Crosslisted as BIOS 446/846

[LINK \(http://bulletin.unl.edu/courses/FDST/406\)](http://bulletin.unl.edu/courses/FDST/406)

Prereqs:

Parallel in **FDST 405** (<http://bulletin.unl.edu/courses/FDST/405>)/**805** (<http://bulletin.unl.edu/courses/FDST/805>)/**BIOS 446** (<http://bulletin.unl.edu/courses/BIOS/446>)/**846** (<http://bulletin.unl.edu/courses/BIOS/846>).

Credit Hours:	2
Course Format:	Lab 6
Course Delivery:	Classroom

<http://bulletin.unl.edu/courses/BIOS/846>).

This course is a prerequisite for: [FDST 415 \(http://bulletin.unl.edu/courses/FDST/415\)](http://bulletin.unl.edu/courses/FDST/415)

The microorganisms in foods and the methods used to study them as discussed in [FDST 405 \(http://bulletin.unl.edu/courses/FDST/405\)](http://bulletin.unl.edu/courses/FDST/405)/[805 \(http://bulletin.unl.edu/courses/FDST/805\)](http://bulletin.unl.edu/courses/FDST/805).

GEOL **Quaternary Paleoclimatology and Paleoecology**

423/823

Crosslisted as *BIOS 436/836*

[LINK \(http://bulletin.unl.edu/courses/GEOL/423\)](http://bulletin.unl.edu/courses/GEOL/423)

Prereqs:
12 hrs GEOL or BIOS.

Analysis and interpretation of the Quaternary period's paleoecological data. Patterns of long-term climate variation. Distribution patterns and responses of organisms and ecosystems to Quaternary environmental change.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOL **Biogeochemical Cycles**

424/824

Crosslisted as *BIOS 438/838*

[LINK \(http://bulletin.unl.edu/courses/GEOL/424\)](http://bulletin.unl.edu/courses/GEOL/424)

Prereqs:
CHEM 109 (<http://bulletin.unl.edu/courses/CHEM/109>) or 113 (<http://bulletin.unl.edu/courses/CHEM/113>); 12 hrs geology or biological sciences.

Chemical cycling at or near the earth's surface, emphasizing interactions among the atmosphere, biosphere, geosphere and hydrosphere. Modern processes, the geological record, and human impacts on elemental cycles.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOL **Marine Ecology and Paleoecology**

439/839

Crosslisted as *BIOS 461/861*

[LINK \(http://bulletin.unl.edu/courses/GEOL/439\)](http://bulletin.unl.edu/courses/GEOL/439)

Prereqs:
BIOS/NRES 220 (<http://bulletin.unl.edu/courses/NRES/220>).

This course is a prerequisite for: [GEOL 439L \(http://bulletin.unl.edu/courses/GEOL/439L\)](http://bulletin.unl.edu/courses/GEOL/439L)

Geology majors should register for [GEOL 439L \(http://bulletin.unl.edu/courses/GEOL/439L\)](http://bulletin.unl.edu/courses/GEOL/439L)/[BIOS 461L \(http://bulletin.unl.edu/courses/BIOS/461L\)](http://bulletin.unl.edu/courses/BIOS/461L).

Introduction to the fundamentals of marine ecology and their application to paleoecology.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

GEOL **Marine Ecology and Paleoecology Lab**

439L/839L

Crosslisted as *BIOS 461L/861L*

[LINK \(http://bulletin.unl.edu/courses/GEOL/439L\)](http://bulletin.unl.edu/courses/GEOL/439L)

Prereqs:
Parallel [GEOL 439 \(http://bulletin.unl.edu/courses/GEOL/439\)](http://bulletin.unl.edu/courses/GEOL/439)/[839 \(http://bulletin.unl.edu/courses/GEOL/839\)](http://bulletin.unl.edu/courses/GEOL/839).

Lab includes several field trips.

Credit Hours:	1
Max credits per degree:	1
Course Format:	Lab 3
Course Delivery:	Classroom

NRES **Biology of Wildlife Populations**

450/850

Crosslisted as *BIOS 450/850*

[LINK \(http://bulletin.unl.edu/courses/NRES/450\)](http://bulletin.unl.edu/courses/NRES/450)

Prereqs:
BIOS 220 (<http://bulletin.unl.edu/courses/BIOS/220>).

Credit Hours:	4
Course Format:	Lecture 3, Lab 3

Principles of population dynamics. Management strategies (for consumptive and nonconsumptive fish and wildlife species) presented utilizing principles developed.

Course Delivery: Classroom

NRES

Limnology

459/859

Crosslisted as BIOS 459/859, WATS 459

[LINK \(http://bulletin.unl.edu/courses/NRES/459\)](http://bulletin.unl.edu/courses/NRES/459)

Prereqs:

12 hrs BIOS, including BIOS/NRES 220 (<http://bulletin.unl.edu/courses/NRES/220>)/BIOS220x; two semesters CHEM.

May also be offered at Cedar Point Biological Station.

Physical, chemical, and biological processes that occur in fresh water. Organisms occurring in fresh water and their ecology; biological productivity of water and its causative factors; eutropication and its effects.

Credit Hours: 4

Course Format: Lecture 3, Lab 4

Course Delivery: Classroom

NRES

Fisheries Biology

464/864

Crosslisted as BIOS 464/864

[LINK \(http://bulletin.unl.edu/courses/NRES/464\)](http://bulletin.unl.edu/courses/NRES/464)

Prereqs:

BIOS/NRES 489 (<http://bulletin.unl.edu/courses/NRES/489>)/889 (<http://bulletin.unl.edu/courses/NRES/889>) or equivalent.

Biology of fishes. Factors that affect fishes in the natural environment. Techniques used in the analysis and management of fish populations.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

NRES

Wetlands

468/868

Crosslisted as BIOS 458, WATS 468

[LINK \(http://bulletin.unl.edu/courses/NRES/468\)](http://bulletin.unl.edu/courses/NRES/468)

Prereqs:

12 hrs biological sciences; BIOS 220 (<http://bulletin.unl.edu/courses/BIOS/220>); CHEM 109 (<http://bulletin.unl.edu/courses/CHEM/109>) and 110 (<http://bulletin.unl.edu/courses/CHEM/110>).

Offered even-numbered calendar years.

Physical, chemical and biological processes that occur in wetlands; the hydrology and soils of wetland systems; organisms occurring in wetlands and their ecology wetland creation, delineation, management and ecotoxicology.

Credit Hours: 4

Course Format: Lecture 4

Course Delivery: Classroom

NRES

Herpetology

474/874

Crosslisted as BIOS 474/874

[LINK \(http://bulletin.unl.edu/courses/NRES/474\)](http://bulletin.unl.edu/courses/NRES/474)

Prereqs:

BIOS/NRES 386 (<http://bulletin.unl.edu/courses/NRES/386>) and permission. BIOS 388 (<http://bulletin.unl.edu/courses/BIOS/388>) recommended.

May also be offered at Cedar Point Biological Station.

Fossil and living amphibians and reptiles. Anatomy, classification, ecology and evolution.

Credit Hours: 4

Course Format: Lecture 4

Course Delivery: Classroom

NRES

Mammalogy

476/876

Crosslisted as BIOS 476/876

[LINK \(http://bulletin.unl.edu/courses/NRES/476\)](http://bulletin.unl.edu/courses/NRES/476)

Prereqs:
8 hrs BIOS; BIOS/NRES 386 (<http://bulletin.unl.edu/courses/NRES/386>) or NRES 311 (<http://bulletin.unl.edu/courses/NRES/311>).

May also be offered at Cedar Point Biological Station. Field trips are required and may occur outside of scheduled class time. Lab and field time emphasize diversity of mammalian families and species identification of Nebraska mammals.

Evolution, natural history, ecology, and functional morphology of planetary mammals and mammals of the Northern Great Plains.

Credit Hours: 4

Course Format: Lecture 3

Course Delivery: Classroom

NUTR

Physiology of Exercise

[LINK \(http://bulletin.unl.edu/courses/NUTR/484\)](http://bulletin.unl.edu/courses/NUTR/484)

484/884

Crosslisted as BIOS 484/884

Prereqs:
12 hrs biological sciences, including BIOS 213 (<http://bulletin.unl.edu/courses/BIOS/213>) or equivalent; BIOS 214 (<http://bulletin.unl.edu/courses/BIOS/214>) or equivalent.

This course is a prerequisite for: NUTR 858 (<http://bulletin.unl.edu/courses/NUTR/858>)

Effects of physical activity on the circulatory, respiratory, and other physiological processes.

Credit Hours: 3

Course Format: Lab 1, Lecture 2

Course Delivery: Classroom

PSYC

Behavioral Neuroscience

[LINK \(http://bulletin.unl.edu/courses/PSYC/465\)](http://bulletin.unl.edu/courses/PSYC/465)

465/865

Crosslisted as BIOS 419/819

Prereqs:
12 hrs psychology or 12 hrs biological sciences, including PSYC 373 (<http://bulletin.unl.edu/courses/PSYC/373>) or BIOS 373 (<http://bulletin.unl.edu/courses/BIOS/373>).

Relationship of physiological variables to behavior, an introduction to laboratory techniques in neuropsychology.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

VBMS

Functional Histology

[LINK \(http://bulletin.unl.edu/courses/VBMS/408\)](http://bulletin.unl.edu/courses/VBMS/408)

408/808

Crosslisted as BIOS 408/808

Prereqs:
BIOS 101 (<http://bulletin.unl.edu/courses/BIOS/101>) and 101L (<http://bulletin.unl.edu/courses/BIOS/101L>), or 102 (<http://bulletin.unl.edu/courses/BIOS/102>) or 112 (<http://bulletin.unl.edu/courses/BIOS/112>); BIOS 213 (<http://bulletin.unl.edu/courses/BIOS/213>) or ASCI 240 (<http://bulletin.unl.edu/courses/ASCI/240>). BIOS 315 (<http://bulletin.unl.edu/courses/BIOS/315>) recommended.

Microscopic anatomy of the tissues and organs of major vertebrate species, including humans. Normal cellular arrangements of tissues and organs as related to their macroscopic anatomy and function, with reference to sub-cellular characteristics and biochemical processes. Functional relationships among cells, tissues, organs and organ systems, contributory to organismal well being. General introduction to pathological processes and principles underlying some diseases.

Credit Hours: 4

Course Format: Lecture 3, Lab 2

Course Delivery: Classroom

VBMS

Pathogenic Microbiology

[LINK \(http://bulletin.unl.edu/courses/VBMS/441\)](http://bulletin.unl.edu/courses/VBMS/441)

441/841

Crosslisted as BIOS 441/841

Prereqs:
BIOS 312 (<http://bulletin.unl.edu/courses/BIOS/312>) and either 313 or 314, or permission.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Fundamental principles involved in host–microorganism interrelationships. Identification of pathogens, isolation, propagation, mode of transmission, pathogenicity, symptoms, treatment, prevention of disease, epidemiology, and methods of control.

VMED
645

Animal Physiology I

Crosslisted as *BIOS 813, ASCI 845, VBMS 845*

[LINK \(http://bulletin.unl.edu/courses/VMED/645\)](http://bulletin.unl.edu/courses/VMED/645)

Prereqs:

For ASCI/VBMS *845/BIOS *813: An undergraduate course in biochemistry or biology or physiology. For VMED 645: First year standing in and admission to VMED.

This course is a prerequisite for: [VMED 645 \(http://bulletin.unl.edu/courses/VMED/645\)](http://bulletin.unl.edu/courses/VMED/645)

Primarily for students in animal or biological sciences or veterinary medicine.

Mammalian physiology and cellular mechanisms. Physiology of the cell, embryology, and neuro–sensory, neuromuscular, endocrine, and reproductive systems.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

VMED
646

Animal Physiology II

Crosslisted as *BIOS 814, ASCI 846, VBMS 846*

[LINK \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646)

Prereqs:

For ASCI/VBMS *846/BIOS *814: An undergraduate course in biochemistry or biology or physiology. For VMED 646: First year standing in and admission to VMED.

This course is a prerequisite for: [VMED 646 \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646)

*ASCI/VBMS *846/BIOS *814/VMED 646 (http://bulletin.unl.edu/courses/VMED/646) is designed for students in animal or biological sciences or veterinary medicine.*

Mammalian physiology and cellular mechanisms. Physiology of the digestive, cardiovascular, respiratory, and renal systems.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/BiologicalSciences\)](http://www.unl.edu/gradstudies/prospective/programs/BiologicalSciences)

Director of School of Biological Sciences: Valery Forbes, Ph.D.

Graduate Committee: Associate Professor Pilson (Chair); Professors Gardner, Wagner; Associate Professors Mitra, Chia, E. Moriyama, Harris

The major goal of the School of Biological Studies (SBS) is to develop an integrated perspective of biological sciences and to provide a well–rounded education based on a functional understanding that extends from fundamental cell and molecular biology to global ecology. The SBS graduate program is important to UNL and the state in that we are the only major biology department that awards the PhD in Nebraska. The breadth and diversity of the graduate program extends through several specific research interest clusters termed Graduate Research Emphasis Groups (GREGs). The GREGs represent formally approved groups of SBS faculty, adjunct faculty, and graduate students who share common research interests. The GREGs set forth requirements for graduate studies and also are intended to provide an interactive forum for more focused research interests that reflect SBS and interdepartmental strengths of the faculty. GREG research areas constitute specializations for degrees offered by the School of Biological Sciences. Our dedication to excellence in research, teaching, and training is evidenced by our funding support and our ability to attract outstanding postdoctoral fellows and graduate students. We train approximately 25 postdoctoral and 80 graduate students at any given time and take pride in launching our trainees into successful and productive careers ranging from biomedical researchers in industry, to postdoctoral faculty members at other institutions. For current GREG information, visit www.biosci.unl.edu.

Each application must be accompanied by scores from the General Test of the Graduate Record Examinations (GRE). A statement (no more than 300 words) stating long–range goals and specific research interests and experiences, and a curriculum vita or resume is required. Applicants should indicate the kind of graduate work planned and identify the appropriate research area of interest. Applicants should have a minimum cumulative grade point average equivalent to 3.0 (B) or score in at least the 50th percentile in each portion of the GRE taken. Admission also depends on the nature of the applicant's interest and whether appropriate faculty, space, and facilities are available for the type of graduate training proposed. Entering graduate students are normally expected to have taken a year of physics, one semester of calculus, and chemistry through organic chemistry, or one semester each of organic chemistry and biochemistry.

Master of Science Degree.

Students admitted to the School of Biological Sciences choose a GREG (specialization) in which to pursue a degree. During the first semester after admission, it is

the responsibility of each student, with the help of a faculty adviser, to seek a guidance interview to assess strengths and weaknesses in background and potential to complete the degree program. Degree requirements are those of the Graduate College and additional stipulations of the student's Graduate Research Emphasis Group (GREG). Option II is available to students in biological sciences only by special permission of the Graduate Committee obtained at the time of entry in the program. Option III is not open for masters degree programs in biological sciences.

Minor in Biology:

Masters students in other departments may seek a minor in biological sciences by fulfilling the appropriate course work. The student is required to make arrangements with the Graduate Committee in Biological Sciences before the program of studies is approved.

Specializations Available at the Masters Level:

Bioinformatics; Ecology, Evolution and Behavior; Genetics, Genomics and Bioinformatics; Microbiology and Molecular Biology; Parasitology; Plant Pathology

Doctor of Philosophy Degree.

Entering doctoral students must affiliate with one of the GREGs of the School of Biological Sciences. During the first semester, each student will have a guidance interview as described in the masters program. A qualifying examination administered by the GREGs taken before the end of the second semester. A supervisory committee of at least five members representing at least two GREGs satisfies the graduate college requirement of an external member. The supervisory committee will guide the student's program of course work and determine need for additional training in supporting or deficient areas, and will determine, on an individual basis, training in one or both of the following areas: foreign language or special research techniques. Requirements for the degree differ from the general requirements of the Graduate College in that the oral comprehensive examination is the only examination that may be waived by special permission of the Graduate Committee. GREGs may stipulate additional requirements.

Specializations Available at the Doctoral Level:

Bioinformatics; Ecology, Evolution and Behavior; Genetics, Genomics and Bioinformatics; Microbiology and Molecular Biology; Parasitology; Plant Pathology; Plant Systems Biology

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/BiologicalSciences). (<http://www.unl.edu/gradstudies/prospective/programs/BiologicalSciences>)

Retrieved from "http://bulletin.unl.edu/graduate/Biological_Sciences (http://bulletin.unl.edu/graduate/Biological_Sciences)"
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Business

Subject Areas

- [Finance \(FINA\) \(#FINA\)](#)
- [Graduate Business Administration \(GRBA\) \(#GRBA\)](#)
- [Management \(MNGT\) \(#MNGT\)](#)
- [Marketing \(MRKT\) \(#MRKT\)](#)
- [School of Accountancy \(ACCT\) \(#ACCT\)](#)

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Courses for FINA (FINA)

ECON 413/813	Social Insurance Crosslisted as <i>FINA 413/813</i>	LINK (http://bulletin.unl.edu/courses/ECON/413)								
Nature and causes of economic insecurity. Analysis of public programs such as Social Security, unemployment insurance, workers' compensation, and public assistance.		<table><tr><td>Credit Hours:</td><td>3</td></tr><tr><td>Course Format:</td><td>Lecture 3</td></tr><tr><td>Course Delivery:</td><td>Classroom</td></tr><tr><td>Groups:</td><td>General Economics and Theory</td></tr></table>	Credit Hours:	3	Course Format:	Lecture 3	Course Delivery:	Classroom	Groups:	General Economics and Theory
Credit Hours:	3									
Course Format:	Lecture 3									
Course Delivery:	Classroom									
Groups:	General Economics and Theory									

FINA 412/812	Life and Health Insurance	LINK (http://bulletin.unl.edu/courses/FINA/412)						
Prereqs: FINA 307 (http://bulletin.unl.edu/courses/FINA/307) / 307H (http://bulletin.unl.edu/courses/FINA/307H); FINA 361 (http://bulletin.unl.edu/courses/FINA/361)/ 361H		<table><tr><td>Credit Hours:</td><td>3</td></tr><tr><td>Course Format:</td><td>Lecture 3</td></tr><tr><td>Course Delivery:</td><td>Classroom</td></tr></table>	Credit Hours:	3	Course Format:	Lecture 3	Course Delivery:	Classroom
Credit Hours:	3							
Course Format:	Lecture 3							
Course Delivery:	Classroom							

<http://bulletin.unl.edu/courses/FINA/361H>) or ACTS 440
(<http://bulletin.unl.edu/courses/ACTS/440>)/840
(<http://bulletin.unl.edu/courses/ACTS/840>).

The economic functions of life insurance. The human-life value concept and the basic forms of life insurance and annuities used in insuring life values. Life insurance pricing, functional company operations, legal aspects, and contractual provision. Health and other specialized forms of human-life value insurance.

FINA

Enterprise Risk Management

[LINK \(http://bulletin.unl.edu/courses/FINA/438\)](http://bulletin.unl.edu/courses/FINA/438)

438/838

Prereqs:

[FINA 338 \(http://bulletin.unl.edu/courses/FINA/338\)](http://bulletin.unl.edu/courses/FINA/338).

Major and minor pure loss exposures facing business firms, the alternative risk management techniques for dealing with these exposure, the most appropriate technique(s) for controlling each exposure, and the financial results so the risk management program remains effective. Actual risk management audits of business firms and case studies are used to integrate the concepts, techniques, and tools.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

FINA

Advanced Finance

[LINK \(http://bulletin.unl.edu/courses/FINA/461\)](http://bulletin.unl.edu/courses/FINA/461)

461/861

Prereqs:

[FINA 361 \(http://bulletin.unl.edu/courses/FINA/361\)](http://bulletin.unl.edu/courses/FINA/361), [363 \(http://bulletin.unl.edu/courses/FINA/363\)](http://bulletin.unl.edu/courses/FINA/363), and [MATH 104 \(http://bulletin.unl.edu/courses/MATH/104\)](http://bulletin.unl.edu/courses/MATH/104).

Advanced development of the finance specialization with major emphasis on the theoretical issues. Application of quantitative techniques and the role of capital markets into the external financing policy of the firm.

Credit Hours:	3
Course Delivery:	Classroom

FINA

Bank Management

[LINK \(http://bulletin.unl.edu/courses/FINA/465\)](http://bulletin.unl.edu/courses/FINA/465)

465/865

Prereqs:

[FINA 361 \(http://bulletin.unl.edu/courses/FINA/361\)](http://bulletin.unl.edu/courses/FINA/361) and [365 \(http://bulletin.unl.edu/courses/FINA/365\)](http://bulletin.unl.edu/courses/FINA/365).

Bank asset management; policy and practices for reserves, loans and investments. Internal organization of commercial banks. New problems and recent innovations in commercial banking.

Credit Hours:	3
Course Delivery:	Classroom

FINA

Options, Futures and Derivative Securities

[LINK \(http://bulletin.unl.edu/courses/FINA/467\)](http://bulletin.unl.edu/courses/FINA/467)

467/867

Prereqs:

[FINA 338 \(http://bulletin.unl.edu/courses/FINA/338\)](http://bulletin.unl.edu/courses/FINA/338) or [863 \(http://bulletin.unl.edu/courses/FINA/863\)](http://bulletin.unl.edu/courses/FINA/863) or ACTS 440
(<http://bulletin.unl.edu/courses/ACTS/440>)/840
(<http://bulletin.unl.edu/courses/ACTS/840>).

The use of derivative securities in risk reduction and portfolio management strategies.

Credit Hours:	3
Max credits per degree:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

FINA

Portfolio Practicum I

[LINK \(http://bulletin.unl.edu/courses/FINA/468\)](http://bulletin.unl.edu/courses/FINA/468)

468/868

Prereqs:

FINA 363 (<http://bulletin.unl.edu/courses/FINA/363>) and admission to the Finance Department's CFA®- Investments Option.

This course is a prerequisite for: [FINA 469](http://bulletin.unl.edu/courses/FINA/469) (<http://bulletin.unl.edu/courses/FINA/469>)

[FINA 468](http://bulletin.unl.edu/courses/FINA/468) (<http://bulletin.unl.edu/courses/FINA/468>)/[868](http://bulletin.unl.edu/courses/FINA/868) (<http://bulletin.unl.edu/courses/FINA/868>) is the first course of a two-semester sequence that includes [FINA 469](http://bulletin.unl.edu/courses/FINA/469) (<http://bulletin.unl.edu/courses/FINA/469>)/[869](http://bulletin.unl.edu/courses/FINA/869) (<http://bulletin.unl.edu/courses/FINA/869>). [FINA 468](http://bulletin.unl.edu/courses/FINA/468) (<http://bulletin.unl.edu/courses/FINA/468>) is "Letter grade only".

Practical experience in financial asset management. Economic and industry information, money and capital market forecasts, to determine how to select individual securities and how to develop a portfolio strategy.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

FINA

Portfolio Practicum II

[LINK \(http://bulletin.unl.edu/courses/FINA/469\)](http://bulletin.unl.edu/courses/FINA/469)

469/869

Prereqs:

FINA 468 (<http://bulletin.unl.edu/courses/FINA/468>)/[868](http://bulletin.unl.edu/courses/FINA/868) (<http://bulletin.unl.edu/courses/FINA/868>).

[FINA 469](http://bulletin.unl.edu/courses/FINA/469) (<http://bulletin.unl.edu/courses/FINA/469>)/[869](http://bulletin.unl.edu/courses/FINA/869) (<http://bulletin.unl.edu/courses/FINA/869>) is the second course of a two-semester sequence that includes [FINA 468](http://bulletin.unl.edu/courses/FINA/468) (<http://bulletin.unl.edu/courses/FINA/468>)/[868](http://bulletin.unl.edu/courses/FINA/868) (<http://bulletin.unl.edu/courses/FINA/868>). [FINA 469](http://bulletin.unl.edu/courses/FINA/469) (<http://bulletin.unl.edu/courses/FINA/469>) is "Letter grade only".

Practical experience in financial asset management. Economic and industry information, money and capital market forecasts, to determine how to select individual securities and how to develop a portfolio strategy.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

FINA

Real Estate Finance

[LINK \(http://bulletin.unl.edu/courses/FINA/482\)](http://bulletin.unl.edu/courses/FINA/482)

482/882

Prereqs:

FINA 382 (<http://bulletin.unl.edu/courses/FINA/382>).

This course may be used towards fulfillment of the Nebraska Real Estate Commission's educational requirements.

Consideration of procedure, instruments, techniques, and trends in financing urban real property; an examination of realty credit markets and sources of funds (private and public); valuation of real property for lending and investment purposes; and measurement of investment performance.

Credit Hours:	3
Course Delivery:	Classroom

FINA

Property and Liability Insurance

[LINK \(http://bulletin.unl.edu/courses/FINA/807\)](http://bulletin.unl.edu/courses/FINA/807)

807

Prereqs:

FINA 307 (<http://bulletin.unl.edu/courses/FINA/307>)

Open to masters level and PhD students only. Analysis of risk theory, property and liability risks, and the economic functions of property insurance. Traditional and modern theories of risk, property and liability coverages, and functional insurance areas. The role of property and liability insurance in meeting current economic and social problems in urban core areas of major central cities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

FINA
820

Employee Benefit Plans

[LINK \(http://bulletin.unl.edu/courses/FINA/820\)](http://bulletin.unl.edu/courses/FINA/820)

Prereqs:

[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or [211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212); [FINA 307 \(http://bulletin.unl.edu/courses/FINA/307\)](http://bulletin.unl.edu/courses/FINA/307)

Analysis of group life insurance, group medical expense and disability income insurance, private pension plans, profit sharing and thrift plans, Section 401(k) plans, individual retirement accounts (IRAs), Keogh plans for the self-employed, group property and liability insurance, and other employee benefits. An analysis of major public policy issues.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

FINA
850

Multinational Financial Analysis

[LINK \(http://bulletin.unl.edu/courses/FINA/850\)](http://bulletin.unl.edu/courses/FINA/850)

Prereqs:

[GRBA 811 \(http://bulletin.unl.edu/courses/GRBA/811\)](http://bulletin.unl.edu/courses/GRBA/811) and permission

FINA 850 (http://bulletin.unl.edu/courses/FINA/850) is open to masters level and PhD students only.

International aspects of financial management. Exchange risk analysis and management. Accessing international capital markets. International capital budgeting. Numerical optimization technique.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

FINA
855

Capital Markets and Financial Institutions

[LINK \(http://bulletin.unl.edu/courses/FINA/855\)](http://bulletin.unl.edu/courses/FINA/855)

Prereqs:

[FINA 365 \(http://bulletin.unl.edu/courses/FINA/365\)](http://bulletin.unl.edu/courses/FINA/365) or permission

Open to masters level and PhD students only. Analysis of the development and functions of the various financial institutions, with emphasis on the nonbank financial intermediary. Sources and uses of funds for each of the major types of intermediary, the nature and structure of financial markets, the behavior of financial institutions, and the theories of interest rate determination.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

FINA
862

Security Valuation and the Buffett Investment Method

[LINK \(http://bulletin.unl.edu/courses/FINA/862\)](http://bulletin.unl.edu/courses/FINA/862)

Prereqs:

[GRBA 811 \(http://bulletin.unl.edu/courses/GRBA/811\)](http://bulletin.unl.edu/courses/GRBA/811) or equivalent.

This course covers methods used to value publicly-traded and private equities. Methods used by Warren Buffett are emphasized.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

FINA
863

Portfolio Management

[LINK \(http://bulletin.unl.edu/courses/FINA/863\)](http://bulletin.unl.edu/courses/FINA/863)

Prereqs:

[GRBA *811](http://bulletin.unl.edu/courses/GRBA/811)

The workings of securities markets. The fundamental intuition of the risk-return trade-off. The role of information in financial markets. All major asset pricing models and application to risk management in a portfolio context.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

FINA

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/FINA/899\)](http://bulletin.unl.edu/courses/FINA/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

FINA

907**Insurance Seminar**[LINK \(http://bulletin.unl.edu/courses/FINA/907\)](http://bulletin.unl.edu/courses/FINA/907)

Credit Hours: 3

Campus:

Course Delivery: Classroom

FINA

960**Financial Management**[LINK \(http://bulletin.unl.edu/courses/FINA/960\)](http://bulletin.unl.edu/courses/FINA/960)**Prereqs:**

Completion of the MBA core requirements

Open to masters level and PhD students only. Assuming a background of knowledge which includes the finance function in business and the technique of financial analysis, this course confronts the student with the unique role of financial management which relates both to the company as an operating entity and to the interest of the owners in the results of the operation.

Credit Hours: 3

Campus:

Course Delivery: Classroom

FINA

961**Advanced Theory of Finance**[LINK \(http://bulletin.unl.edu/courses/FINA/961\)](http://bulletin.unl.edu/courses/FINA/961)**Prereqs:**[FINA 361 \(http://bulletin.unl.edu/courses/FINA/361\)](http://bulletin.unl.edu/courses/FINA/361)This course is a prerequisite for: [FINA 994 \(http://bulletin.unl.edu/courses/FINA/994\)](http://bulletin.unl.edu/courses/FINA/994)

Open to masters level and PhD students only. Critical examination of the relation of the capital markets to the external financing problems of the firm. Advanced developments of the finance specialization with major emphasis on the theoretical issues.

Credit Hours: 3

Campus:

Course Delivery: Classroom

FINA

962**Research Methods in Finance and Accounting**[LINK \(http://bulletin.unl.edu/courses/FINA/962\)](http://bulletin.unl.edu/courses/FINA/962)**Prereqs:**

Admitted to PhD degree program in Economics or the College of Business Administration.

This class covers the research methods used in accounting and finance. Emphasis is on empirical testing using statistical and mathematical programming languages.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

FINA

963**Survey of Teaching Methods in Business**[LINK \(http://bulletin.unl.edu/courses/FINA/963\)](http://bulletin.unl.edu/courses/FINA/963)**Prereqs:**

Admission to PhD degree program in Finance.

Credit Hours: 1

Course Format: Lecture 1

This course is a primer to help facilitate new PhD candidates in their transition from student to teacher. The course is largely self-directed study, however there is mentoring from a faculty member. The course is based around four accountabilities. The student will learn strategies to develop: 1) an environment conducive to learning, 2) a curriculum, 3) a delivery system for the curriculum, and 4) an evaluation system. The course culminates with the construction of a teaching portfolio.

Course Delivery: Classroom

FINA Seminar in Banking

965

[LINK \(http://bulletin.unl.edu/courses/FINA/965\)](http://bulletin.unl.edu/courses/FINA/965)

Open to PhD students only.

Credit Hours: 3

Campus:

Course Delivery: Classroom

FINA Seminar in Investments

966

[LINK \(http://bulletin.unl.edu/courses/FINA/966\)](http://bulletin.unl.edu/courses/FINA/966)

Open to PhD students only.

Credit Hours: 3

Campus:

Course Delivery: Classroom

FINA Seminar in Finance

968

[LINK \(http://bulletin.unl.edu/courses/FINA/968\)](http://bulletin.unl.edu/courses/FINA/968)

Open to PhD students only.

Credit Hours: 3

Campus:

Course Delivery: Classroom

FINA Ethics Assessment

97

[LINK \(http://bulletin.unl.edu/courses/FINA/97\)](http://bulletin.unl.edu/courses/FINA/97)

Prereqs:
Senior standing and admission to the Finance Department's CFA® - Investments Option.

FINA 97 (<http://bulletin.unl.edu/courses/FINA/97>) is a required course to complete the CFA® - Investments Option within the FINA major. FINA 97 (<http://bulletin.unl.edu/courses/FINA/97>) is 'Pass/No Pass only'.

Ethical standards for investment professionals.

Credit Hours: 0

Course Delivery: Web

FINA Seminar in Selected Subjects: Special Topics

994

[LINK \(http://bulletin.unl.edu/courses/FINA/994\)](http://bulletin.unl.edu/courses/FINA/994)

Prereqs:
[FINA 961 \(http://bulletin.unl.edu/courses/FINA/961\)](http://bulletin.unl.edu/courses/FINA/961)

Open to PhD students only.

Credit Hours: 3

Campus:

Course Delivery: Classroom

FINA Directed Reading or Research

996

[LINK \(http://bulletin.unl.edu/courses/FINA/996\)](http://bulletin.unl.edu/courses/FINA/996)

Credit Hours: 1-3

Campus:	
Course Delivery:	Classroom

FINA
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/FINA/999\)](http://bulletin.unl.edu/courses/FINA/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Courses for GRBA (GRBA)

GRBA
800

Ethical and Legal Considerations in Management

[LINK \(http://bulletin.unl.edu/courses/GRBA/800\)](http://bulletin.unl.edu/courses/GRBA/800)

Prereqs:
Permission of the MBA director

Introduction to the Legal System; Introduction to Legislation and Impact on Business–State; Evolution of Concepts in Law; Introduction to Legislation and Impact on Business–Federal; Other Developing Legal Concepts; White Collar Crimes; Relationship of Business and Government–Concept of “Public Interest”; The Corporation–A Legal Perspective; Business and Ethics; Business and Religion; International Business Ethics; The “Professional Manager” in Business.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GRBA
801

Survey of Accounting

[LINK \(http://bulletin.unl.edu/courses/GRBA/801\)](http://bulletin.unl.edu/courses/GRBA/801)

Prereqs:
Permission of the MBA director

A one-semester course for graduate students without prior study in financial and managerial accounting. Common Body of Knowledge materials as described by the American Assembly of Collegiate Schools of Business. Concepts essential to thorough understanding of managerial and business concepts and practices.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GRBA
804

Finance

[LINK \(http://bulletin.unl.edu/courses/GRBA/804\)](http://bulletin.unl.edu/courses/GRBA/804)

Prereqs:
Permission of the MBA director

Foundation for studying advanced financial principles at the graduate level. Efficient resource utilization and associated costs. Portfolio theory, capital asset pricing model (CAPM), advanced budgeting techniques, cost of capital theory, financial forecasting, and financial planning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GRBA
805

Marketing Management

[LINK \(http://bulletin.unl.edu/courses/GRBA/805\)](http://bulletin.unl.edu/courses/GRBA/805)

Prereqs:
Permission of the MBA director

Credit Hours:	3
Campus:	

Examination of marketing system, its relations with the socioeconomic system, and the influences of each upon the other as these elements affect the management of marketing activities. Trends in the structure of marketing institutions, processes and practices. Consideration of customer attributes and behavioral characteristics, and how a marketing manager responds to these in the design of marketing strategies, using research, product development, pricing, distribution structure, and promotion.

Course Delivery: Classroom

GRBA
806 Management Theory and Organizational Behavior

[LINK \(http://bulletin.unl.edu/courses/GRBA/806\)](http://bulletin.unl.edu/courses/GRBA/806)

Prereqs:
Permission of the MBA director

Behavioral science foundations of management theory. Techniques of human resource administration and utilization explored with particular emphasis on the behavioral science rationale for the application of these techniques.

Credit Hours: 3
Campus:
Course Delivery: Classroom

GRBA
810 Contemporary Managerial Accounting

[LINK \(http://bulletin.unl.edu/courses/GRBA/810\)](http://bulletin.unl.edu/courses/GRBA/810)

Prereqs:
Admission to the MBA program and/or permission of the MBA director

This course is a prerequisite for: [ACCT 857 \(http://bulletin.unl.edu/courses/ACCT/857\)](http://bulletin.unl.edu/courses/ACCT/857)

Internal accounting as a tool to generate information for managerial planning and control. Problems and case material used to review basic financial accounting, to develop operational understanding of elementary cost systems, capital and operating budgeting concepts, incremental analysis, transfer pricing, performance evaluation, and other selected quantitative techniques available to assist management in the performance of the planning and control functions.

Credit Hours: 3
Campus:
Course Delivery: Classroom

GRBA
811 Managerial Finance

[LINK \(http://bulletin.unl.edu/courses/GRBA/811\)](http://bulletin.unl.edu/courses/GRBA/811)

Prereqs:
Admission to the MBA program and/or permission of the MBA director

This course is a prerequisite for: [FINA 850 \(http://bulletin.unl.edu/courses/FINA/850\)](http://bulletin.unl.edu/courses/FINA/850), [FINA 862 \(http://bulletin.unl.edu/courses/FINA/862\)](http://bulletin.unl.edu/courses/FINA/862)

A case course designed to meet the financial core requirement in the MBA program. Application of financial theory to business problems. Financial statement analysis, working capital management, capital structure planning, cost of capital, and capital expenditure analysis.

Credit Hours: 3
Campus:
Course Delivery: Classroom

GRBA
812 Managerial Economics

[LINK \(http://bulletin.unl.edu/courses/GRBA/812\)](http://bulletin.unl.edu/courses/GRBA/812)

Prereqs:
Admission to the MBA program and/or permission of the MBA director

Applies economics to problems faced by managers in both the private and public sector. Consideration is given to the impact of the economic environment on decisions made by the firm including the effects of legal, regulatory and social constraints. Internal allocation of resources in organizations from an economic perspective. Economic tools that aid managers, including statistical analysis, are applied to practical decisions.

Credit Hours: 3
Campus:
Course Delivery: Classroom

GRBA

813**Managerial Marketing**[LINK \(http://bulletin.unl.edu/courses/GRBA/813\)](http://bulletin.unl.edu/courses/GRBA/813)**Prereqs:****Admission to the MBA program and/or permission of the MBA director**This course is a prerequisite for: [MRKT 898 \(http://bulletin.unl.edu/courses/MRKT/898\)](http://bulletin.unl.edu/courses/MRKT/898)

Mixture of case discussions, readings, lectures, plus written and oral assignments. Development of analytical and decision making skills, and an understanding of the market forces which influence those decisions. Major emphasis on the decision areas of product, distribution, personal selling, advertising and pricing, as well as on the development of integrated marketing programs. Social, ethical, and global issues.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GRBA

814**Applied Organizational Behavior**[LINK \(http://bulletin.unl.edu/courses/GRBA/814\)](http://bulletin.unl.edu/courses/GRBA/814)**Prereqs:****Admission to the MBA program and/or permission of the MBA director**

Critical behavioral science theories that contribute to the effective management of human behavior in organizations. Conceptual frameworks that help diagnose and explain the potential for common interpersonal problems. These models serve as the foundation for student efforts to develop behavioral skills and intervention techniques that promote effective individual and team activity leading to positive managerial experiences. Communication, power and influence, conflict management, and perception.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GRBA

815**Operations and Information Systems Strategy**[LINK \(http://bulletin.unl.edu/courses/GRBA/815\)](http://bulletin.unl.edu/courses/GRBA/815)**Prereqs:****Admission to the MBA program and/or permission of the MBA director**

Understanding of how operations and information systems can be used to capture competitive advantage in the marketplace. Relationships between operations and information systems and other functional areas of organizations, e.g., marketing, finance, and engineering/research and development.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GRBA

851**Managerial Decision Making**[LINK \(http://bulletin.unl.edu/courses/GRBA/851\)](http://bulletin.unl.edu/courses/GRBA/851)**Prereqs:****Admission to the MBA program and/or permission of the MBA director**

Advanced quantitative tools for aiding and enhancing managerial decision-making so that students develop skills for formulating, analyzing, and solving a wide range of interdisciplinary business problems. Decision-making under certainty, uncertainty and risk, and in competitive situations. Use of various quantitative models and computer-based tools, including problem formulation, interpretation of solution, sensitivity and shadow price, heuristic approaches, simulation and game models.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GRBA

852**International Business**[LINK \(http://bulletin.unl.edu/courses/GRBA/852\)](http://bulletin.unl.edu/courses/GRBA/852)**Prereqs:****Admission to the MBA program and/or permission of the MBA director**

Reconsideration of marketing, management, accounting, and financial

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

concepts within and between foreign environments. Understanding of alternative cultural, economic, and political systems which affect the operations of business firms. Attention to functional business decision making.

GRBA

853

Strategic Management and Business Policy

[LINK \(http://bulletin.unl.edu/courses/GRBA/853\)](http://bulletin.unl.edu/courses/GRBA/853)

Prereqs:

Admission to the MBA program and/or permission of the MBA director

Development and implementation of corporate strategies and policies. Interrelationships between the external and internal environments of the organization (including functional areas) are stressed through identification, analysis, and implementation of solutions to strategic situations facing varying types of organizations. Policy cases, live cases/industry analyses, and an executive-level simulation game. Bridging the gap between management theory and practice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

GRBA

860

Management: Theory, Issues and Practice

[LINK \(http://bulletin.unl.edu/courses/GRBA/860\)](http://bulletin.unl.edu/courses/GRBA/860)

Prereqs:

Admission to the MBA program and/or permission of the MBA director

Historical background, various approaches to management, and the functions, roles, and activities of the modern manager within the organizational and environmental context. Contemporary issues such as total quality management, employee productivity, and international management. The theme and perspective is how to make the practice of management of today's organizations more effective.

Credit Hours: 3

Campus:

Course Delivery: Classroom

GRBA

890

Administrative Internship

[LINK \(http://bulletin.unl.edu/courses/GRBA/890\)](http://bulletin.unl.edu/courses/GRBA/890)

Prereqs:

Admission to the MBA program and/or permission of the MBA director; and the permission of a graduate faculty member

Maximum of 6 semester hours of GRBA *890 can be counted towards a graduate degree. Students present oral and written reports to faculty seminar once a semester. Independent study of theories, principles, practices, techniques, and strategies utilized in the business field. Practical experience in managerial, administrative situations.

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

GRBA

896

Directed Readings or Research in Business

[LINK \(http://bulletin.unl.edu/courses/GRBA/896\)](http://bulletin.unl.edu/courses/GRBA/896)

Prereqs:

Admission to the MBA program and/or permission of the MBA director; and the permission of a graduate faculty member

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

GRBA

98

MBA Assessment

[LINK \(http://bulletin.unl.edu/courses/GRBA/98\)](http://bulletin.unl.edu/courses/GRBA/98)

Required of graduating MBA students for assessment and communication. All components offered via Blackboard. Complete a nationally normed exit exam, the MBA exit survey, an employment survey, and other activities related to assessment.

Campus:

Course Delivery: Classroom

GRBA
99**Ma, MS and PhD Assessment**[LINK \(http://bulletin.unl.edu/courses/GRBA/99\)](http://bulletin.unl.edu/courses/GRBA/99)**Prereqs:****Admission to the MA, MS, and/or PhD business program**

GRBA 099 (<http://bulletin.unl.edu/courses/GRBA/99>) is required of all students graduating with an MA, MS, and/or PhD business degree. All components of GRBA 099 (<http://bulletin.unl.edu/courses/GRBA/99>) are offered on Blackboard. GRBA 099 (<http://bulletin.unl.edu/courses/GRBA/99>) is 'Pass/No Pass only.'

Complete the graduate exit survey, employment survey, and other activities related to assessment.

Course Format:	Independent Study
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Campus:	
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Course Delivery:	Classroom
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RAIK
802**Raikes School: Design Studio I**Crosslisted as *GRBA 802*[LINK \(http://bulletin.unl.edu/courses/RAIK/802\)](http://bulletin.unl.edu/courses/RAIK/802)**Prereqs:****Admission to the MBA program; BSAD/CSCE/RAIK 402H (<http://bulletin.unl.edu/courses/RAIK/402H>)**

The first semester of a two semester sequence of the Raikes School of Computer Science and Management Graduate Design Studio. Application of software design principles in a team oriented project management setting. Complete projects in consultation with private and public sector clients.

Credit Hours:	3
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Course Format:	Lab 10, Lecture 3
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Campus:	
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Course Delivery:	Classroom
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RAIK
803**Raikes School: Design Studio II**Crosslisted as *GRBA 803*[LINK \(http://bulletin.unl.edu/courses/RAIK/803\)](http://bulletin.unl.edu/courses/RAIK/803)**Prereqs:****Admission to the MBA program; GRBA/RAIK *802**

The second semester of a two semester sequence of the Raikes School of Computer Science and Management Graduate Design Studio. Application of software design principles in a team oriented project management setting. Complete projects in consultation with private and public sector clients.

Credit Hours:	3
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Course Format:	Lab 10, Lecture 3
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Campus:	
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Course Delivery:	Classroom
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Q

Courses for MNGT (MNGT)

ENTR

422A/822A**Small Business Owner**Crosslisted as *MNGT 422A/822A*[LINK \(http://bulletin.unl.edu/courses/ENTR/422A\)](http://bulletin.unl.edu/courses/ENTR/422A)**Prereqs:****Junior standing.**

Credit toward the degree cannot be earned in both ENTR/MNGT422/822 and ENTR/MNGT422A/822A.

The obligations and operating practices required by ownership of one's own business, whether new or acquired. Interactions with owners of small businesses (e.g., on-site visits and discussions). Cases and projects relevant to small businesses.

Credit Hours:	3
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Course Format:	Lecture 3
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Course Delivery:	Web
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ENTR

821**Initiating and Managing Entrepreneurial Growth**Crosslisted as *MNGT 821*[LINK \(http://bulletin.unl.edu/courses/ENTR/821\)](http://bulletin.unl.edu/courses/ENTR/821)**Prereqs:**

Credit Hours:	3
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MNGT 321 (<http://bulletin.unl.edu/courses/MNGT/321>) and **360** (<http://bulletin.unl.edu/courses/MNGT/360>); or permission.

Focuses on the management of new firms, including small businesses designed to be lifestyle ventures and firms destined to grow. Exposure to variety of growth opportunities including franchising, organic growth and expansion of smaller businesses or units within larger firms. Teaches how to manage a new business and exploit an entrepreneurial opportunity and manage resources to sustain the firm once the business is running. Learn through a variety of hands-on methods designed to enhance their critical thinking and practical business skills. Case study analysis and exposure to thought leadership in the field are part of the core learning methods.

Course Format:	Lecture 3
Course Delivery:	Classroom

ENTR
822

Managing Rapid Growth and Change in Organizations

Crosslisted as *MNGT 822*

[LINK \(http://bulletin.unl.edu/courses/ENTR/822\)](http://bulletin.unl.edu/courses/ENTR/822)

Prereqs:

MNGT 321 (<http://bulletin.unl.edu/courses/MNGT/321>) or **360** (<http://bulletin.unl.edu/courses/MNGT/360>); or permission.

Addresses financial, human resource, operations and marketing issues that face entrepreneurs whose businesses are confronted with significant growth. In addition, will learn change management concepts that are targeted towards managing an organization in extremely turbulent times. Prepares students to work in fast-growth firms, whether they are interested in starting their own business or joining an already established fast-growth firm. Helpful for students interested in fast-growth industries such as life science and high technology.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ENTR
823

Business Plan Development and Decision Making

Crosslisted as *MNGT 823*

[LINK \(http://bulletin.unl.edu/courses/ENTR/823\)](http://bulletin.unl.edu/courses/ENTR/823)

Prereqs:

MNGT 321 (<http://bulletin.unl.edu/courses/MNGT/321>) or **MNGT 360** (<http://bulletin.unl.edu/courses/MNGT/360>); or permission.

ENTR 823 (<http://bulletin.unl.edu/courses/ENTR/823>) may be taken by non-management majors with departmental permission.

Takes an in-depth look at the business planning process. By the end of the class, students produce their own business plans. Learn through their own business plan writing, through in-depth cases studies, by engaging in role plays and by interacting with business executives. Business plans are a critical part of any organization, thus, preparing students to develop business plans for a variety of new concepts and ideas, whether inside an established firm or as part of the start-up new venture. Students will be asked to enter their business plans into the business planning competitions in which the University participates.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MIST
452/852

Database Organization and Management

Crosslisted as *SCMS 452, MNGT 452/852*

[LINK \(http://bulletin.unl.edu/courses/MIST/452\)](http://bulletin.unl.edu/courses/MIST/452)

Prereqs:

MNGT/MIST 350 (<http://bulletin.unl.edu/courses/MIST/350>).

Database technology and related human and managerial considerations. Databases from two perspectives: the logical view, as the manager and applications programmer see and use the organization's data; and the physical view, as the systems software programmers and database manager view the data. Theory on database organization and the practical applications of databases.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MIST
454/854

Information Systems Analysis and Design

Crosslisted as *SCMS 454, MNGT 454/854*

[LINK \(http://bulletin.unl.edu/courses/MIST/454\)](http://bulletin.unl.edu/courses/MIST/454)

Prereqs:
[MIST/MNGT 350 \(http://bulletin.unl.edu/courses/MNGT/350\)](http://bulletin.unl.edu/courses/MNGT/350).

Methods and methodologies used in systems analysis, design, and implementation. Decision-making process: systems development life cycles, requirement analysis, logical and/or conceptual design, and basic database concepts.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MIST **Object-Oriented Systems Development**

456/856 Crosslisted as *SCMS 456, MNGT 456/856*

[LINK \(http://bulletin.unl.edu/courses/MIST/456\)](http://bulletin.unl.edu/courses/MIST/456)

Prereqs:
[MIST/MNGT 350 \(http://bulletin.unl.edu/courses/MNGT/350\)](http://bulletin.unl.edu/courses/MNGT/350).

Object-orientation as an approach to developing information systems. Analysis, design and implementation of systems development from the object-oriented perspective. Concepts in object-orientation, and object-oriented methods and methodologies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MIST **Business Data Communications**

457/857 Crosslisted as *SCMS 457, MNGT 457/857*

[LINK \(http://bulletin.unl.edu/courses/MIST/457\)](http://bulletin.unl.edu/courses/MIST/457)

Prereqs:
[MIST/MNGT 350 \(http://bulletin.unl.edu/courses/MNGT/350\)](http://bulletin.unl.edu/courses/MNGT/350).

Fundamentals of business data communications, networking hardware and software. Communication protocols such as TCP/IP, Internet and electronic commerce.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MIST **Electronic Business**

458/858 Crosslisted as *SCMS 458, MNGT 458/858*

[LINK \(http://bulletin.unl.edu/courses/MIST/458\)](http://bulletin.unl.edu/courses/MIST/458)

Prereqs:
[MIST/MNGT 350 \(http://bulletin.unl.edu/courses/MNGT/350\)](http://bulletin.unl.edu/courses/MNGT/350).

Management-related topics in electronic business. Conceptualizing and maintaining an e-business strategy. Economic impact of e-business strategies and management practices, models of e-business, electronic payment systems, Internet security, ethics and privacy, and advanced e-business trends and issues.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MIST **Data Mining and Warehousing**

853 Crosslisted as *MNGT 853*

[LINK \(http://bulletin.unl.edu/courses/MIST/853\)](http://bulletin.unl.edu/courses/MIST/853)

Prereqs:
[MNGT 950 \(http://bulletin.unl.edu/courses/MNGT/950\)](http://bulletin.unl.edu/courses/MNGT/950) or equivalent course in statistics

Large scale data storage systems used in business. Statistical and data mining tools used for analyzing large sets of data. Sources of data that are internal and external to the organization. Primary data mining applications in business and demonstrated on representative data sets. Data warehouses, data marts, online analytic mining techniques used to support business operations. Application of actual software where possible.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MNGT **Leading People and Projects**

411/811

[LINK \(http://bulletin.unl.edu/courses/MNGT/411\)](http://bulletin.unl.edu/courses/MNGT/411)

Prereqs:
Junior Standing; MNGT 360 (<http://bulletin.unl.edu/courses/MNGT/360>) and **311** (<http://bulletin.unl.edu/courses/MNGT/311>) (departmental permission is required if **MNGT 360** (<http://bulletin.unl.edu/courses/MNGT/360>) and/or **MNGT 311** (<http://bulletin.unl.edu/courses/MNGT/311>) have not been completed).

Credit towards the degree cannot be earned in both **MNGT 411** (<http://bulletin.unl.edu/courses/MNGT/411>) and **MNGT 465** (<http://bulletin.unl.edu/courses/MNGT/465/865>) (<http://bulletin.unl.edu/courses/MNGT/865>).

Organizations are complex systems calling for a leadership processes including the leader, the follower and the context to effect change. Students should emerge with an understanding of many of the basic concepts and generalizations about leadership, which relate to human behavior and interactions in organizations. Objectives and class activities focus on understanding how leaders function in organizations and on one's leadership operations in the organizational setting. Participants will utilize concepts, generalizations, theories and frames of reference to analyze organizations and leadership to understand and improve their functions. Topics covered include: Systems Theory and Organizational theory, the change process and the leadership process, roles in changing organizations, power and politics in organizations, congruence of individual and organizational ethics, the behavioral concerns in project management.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT Enterprise Management Systems

431/831

Crosslisted as *SCMS 431*

[LINK \(http://bulletin.unl.edu/courses/MNGT/431\)](http://bulletin.unl.edu/courses/MNGT/431)

Prereqs:
Senior standing; MNGT 331 (<http://bulletin.unl.edu/courses/MNGT/331>) or equivalent.

Analytical approach to the design, planning, and control of operations management systems, including domestic and international, manufacturing and service operations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Additional Anthropology Courses

MNGT Supply Chain Risk Management

437/837

Crosslisted as *SCMS 437*

[LINK \(http://bulletin.unl.edu/courses/MNGT/437\)](http://bulletin.unl.edu/courses/MNGT/437)

Prereqs:
Senior standing; BSAD 150 (<http://bulletin.unl.edu/courses/BSAD/150>); **MNGT 331** (<http://bulletin.unl.edu/courses/MNGT/331>); **MNGT/MIST 350** (<http://bulletin.unl.edu/courses/MIST/350>).

Analytical and simulation models for decision making in functional areas such as finance, accounting, marketing, personnel, operations, and inventory. Construction of decision models for practical applications. Emphasis on analyzing alternatives and implementing solutions that result in increased productivity.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT Mobile and Ubiquitous Commerce

455/855

Crosslisted as *SCMS 455, MIST 455/855*

[LINK \(http://bulletin.unl.edu/courses/MNGT/455\)](http://bulletin.unl.edu/courses/MNGT/455)

Prereqs:
MIST/MNGT 350 (<http://bulletin.unl.edu/courses/MNGT/350>).

The impact of wireless and mobile technology on the ways in which business is conducted and the strategic implications of wireless applications in organizations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT Global Information Systems

459/859

Crosslisted as *SCMS 459, MIST 459/859*

[LINK \(http://bulletin.unl.edu/courses/MNGT/459\)](http://bulletin.unl.edu/courses/MNGT/459)

The worldwide political and economic changes in the last decade that have propelled city, state, country governments, and corporations to expand business globally and enter into new markets. Information technology (IT) as a key role in the globalization of businesses. The necessary concepts and ideas to understand the issues in the global or international use of information technology. IT environments around the world, national infrastructures and regulatory regimes, global IT applications, global IS development strategies, global management support systems, and global IT management strategies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT

Labor Relations

[LINK \(http://bulletin.unl.edu/courses/MNGT/462\)](http://bulletin.unl.edu/courses/MNGT/462)

462/862

Prereqs:

Junior standing; [MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360) or [ECON 381 \(http://bulletin.unl.edu/courses/ECON/381\)](http://bulletin.unl.edu/courses/ECON/381).

Interdisciplinary approach to labor-management relations with emphasis on collective bargaining and grievance administration. Appreciation of collective bargaining process gained through actual negotiating of a labor-management contract. On-going union-management relationships explored.

Credit Hours:	3
Course Delivery:	Classroom

MNGT

The Regulatory Environment for Employment and Labor

[LINK \(http://bulletin.unl.edu/courses/MNGT/466\)](http://bulletin.unl.edu/courses/MNGT/466)

466/866

Crosslisted as *ECON 485/885*

Prereqs:

Junior Standing; [MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360) and [361 \(http://bulletin.unl.edu/courses/MNGT/361\)](http://bulletin.unl.edu/courses/MNGT/361) (departmental permission is required if [MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360) and/or [MNGT 361 \(http://bulletin.unl.edu/courses/MNGT/361\)](http://bulletin.unl.edu/courses/MNGT/361) have not been completed). [ECON 381 \(http://bulletin.unl.edu/courses/ECON/381\)](http://bulletin.unl.edu/courses/ECON/381) FOR ECON students.

Government regulation of employment and labor relations. Includes laws and agencies relating to employment practices, pay, hours, equal employment opportunity, labor relations, safety, health, pensions, and benefits. Social and economic implications of governmental regulation considered.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT

Business Policies and Strategies

[LINK \(http://bulletin.unl.edu/courses/MNGT/475\)](http://bulletin.unl.edu/courses/MNGT/475)

475/475X/875

Prereqs:

For MNGT 475: Senior standing and a 2.5 GPA; major in the College of Business Administration; [ACCT 201 \(http://bulletin.unl.edu/courses/ACCT/201\)](http://bulletin.unl.edu/courses/ACCT/201) and [202 \(http://bulletin.unl.edu/courses/ACCT/202\)](http://bulletin.unl.edu/courses/ACCT/202), or [306 \(http://bulletin.unl.edu/courses/ACCT/306\)](http://bulletin.unl.edu/courses/ACCT/306); [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212); [FINA 361 \(http://bulletin.unl.edu/courses/FINA/361\)](http://bulletin.unl.edu/courses/FINA/361)/[361H \(http://bulletin.unl.edu/courses/FINA/361H\)](http://bulletin.unl.edu/courses/FINA/361H); [MIST/MNGT 350 \(http://bulletin.unl.edu/courses/MIST/MNGT/350\)](http://bulletin.unl.edu/courses/MIST/MNGT/350); [MNGT 331 \(http://bulletin.unl.edu/courses/MNGT/331\)](http://bulletin.unl.edu/courses/MNGT/331) and [360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360)/[360H \(http://bulletin.unl.edu/courses/MNGT/360H\)](http://bulletin.unl.edu/courses/MNGT/360H); [MRKT 341 \(http://bulletin.unl.edu/courses/MRKT/341\)](http://bulletin.unl.edu/courses/MRKT/341)/[341H \(http://bulletin.unl.edu/courses/MRKT/341H\)](http://bulletin.unl.edu/courses/MRKT/341H); or equivalent. For MNGT 875: [ACCT 201 \(http://bulletin.unl.edu/courses/ACCT/201\)](http://bulletin.unl.edu/courses/ACCT/201) and [202 \(http://bulletin.unl.edu/courses/ACCT/202\)](http://bulletin.unl.edu/courses/ACCT/202), or [306 \(http://bulletin.unl.edu/courses/ACCT/306\)](http://bulletin.unl.edu/courses/ACCT/306); [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) or [212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212); [FINA 361 \(http://bulletin.unl.edu/courses/FINA/361\)](http://bulletin.unl.edu/courses/FINA/361)

Credit Hours:	3
Course Delivery:	Classroom, Web
ACE Outcomes:	10 ⁷

<http://bulletin.unl.edu/courses/FINA/361/361H>
<http://bulletin.unl.edu/courses/FINA/361H>; [MIST/MNGT 350](http://bulletin.unl.edu/courses/MNGT/350)
<http://bulletin.unl.edu/courses/MNGT/350>; [MNGT 331](http://bulletin.unl.edu/courses/MNGT/331)
<http://bulletin.unl.edu/courses/MNGT/331> and [360](http://bulletin.unl.edu/courses/MNGT/360)
<http://bulletin.unl.edu/courses/MNGT/360/360H>
<http://bulletin.unl.edu/courses/MNGT/360H>; [MRKT 341](http://bulletin.unl.edu/courses/MRKT/341)
<http://bulletin.unl.edu/courses/MRKT/341/341H>
<http://bulletin.unl.edu/courses/MRKT/341H>; or equivalent.

This course is a prerequisite for: [MNGT 475 \(http://bulletin.unl.edu/courses/MNGT/475\)](http://bulletin.unl.edu/courses/MNGT/475)

MNGT 475 (http://bulletin.unl.edu/courses/MNGT/475) is open only to students in the College of Business Administration. Seniors graduating at the end of the current term will have first priority. If class is oversubscribed, non-graduating seniors may be dropped.

Formulation and application of business policies and strategies; analysis of cases using knowledge acquired in basic courses in accounting, economics, finance, human resources, information systems, marketing, and operations. The "C" complexity of business problems and the interrelationship of business functions.

MNGT

828

Leadership in a Global Context

[LINK \(http://bulletin.unl.edu/courses/MNGT/828\)](http://bulletin.unl.edu/courses/MNGT/828)

Prereqs:

[MNGT 311 \(http://bulletin.unl.edu/courses/MNGT/311\)](http://bulletin.unl.edu/courses/MNGT/311) or [MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360); or permission.

Credit towards the degree cannot be earned in both [MNGT 414 \(http://bulletin.unl.edu/courses/MNGT/414\)](http://bulletin.unl.edu/courses/MNGT/414) and [828 \(http://bulletin.unl.edu/courses/MNGT/828\)](http://bulletin.unl.edu/courses/MNGT/828).

Taught from the perspective of US enterprises operating in the global economy. The manner in which cultural, economic, political, and social differences affect the management of business, governmental, military, and other enterprises is considered. Emphasis on problems of managing in Latin America, Europe, and Asia.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT

850

Management Information Systems

[LINK \(http://bulletin.unl.edu/courses/MNGT/850\)](http://bulletin.unl.edu/courses/MNGT/850)

Education or experience with computers and/or experience in administration. Consideration of kinds of information needed to support the full spectrum of decision making in private and public organizations. Techniques of measuring and reporting on outcomes of managerial decisions. The design of management information systems (MIS) with regard to the proper role of the computer, systems analysts, programmers, managers and users, data management technology, and kinds of computer hardware and software.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MNGT

861

Strategic Human Resource Management

[LINK \(http://bulletin.unl.edu/courses/MNGT/861\)](http://bulletin.unl.edu/courses/MNGT/861)

Prereqs:

[MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360) or [MNGT 361 \(http://bulletin.unl.edu/courses/MNGT/361\)](http://bulletin.unl.edu/courses/MNGT/361); or permission.

The purpose of this course is to engage students with the theory and practice of strategic human resource management in contemporary organizational settings. Students will examine in detail the fundamentals of HRM strategic planning and scenario models. Students will learn the importance of evidenced based decision making, and using HRM analytics such as return on investment. The primary focus is human resource management effectiveness and engagement as a strategic partner in organizations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT

863**Compensation Administration**[LINK \(http://bulletin.unl.edu/courses/MNGT/863\)](http://bulletin.unl.edu/courses/MNGT/863)**Prereqs:**

MNGT 360 (<http://bulletin.unl.edu/courses/MNGT/360>) and **361** (<http://bulletin.unl.edu/courses/MNGT/361>).

Design and administration of compensation systems. Deals with determinants of general level of pay, pay structures, wage and salary surveys, job analysis, job evaluation, performance evaluation, benefit plans, and financial incentive systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT

864**Talent Acquisition and Staffing**[LINK \(http://bulletin.unl.edu/courses/MNGT/864\)](http://bulletin.unl.edu/courses/MNGT/864)**Prereqs:**

MNGT 360 (<http://bulletin.unl.edu/courses/MNGT/360>) and **361** (<http://bulletin.unl.edu/courses/MNGT/361>).

This course will explain the process by which organizations forecast employment needs, recruit potential employees, select high potential candidates from applicant pools, assess job performance levels, give feedback, train and develop existing employees, and deal with voluntary and involuntary turnover. Students will be provided with examples of tools used by HR professionals in the staffing process. Students will also be expected to evaluate and suggest improvements to real HR recruiting and selection systems based on the information learned in the classroom.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MNGT

876**Strategic Management**[LINK \(http://bulletin.unl.edu/courses/MNGT/876\)](http://bulletin.unl.edu/courses/MNGT/876)**Prereqs:**

Management Department permission

Theories, concepts, techniques, and practices of strategic management. Includes strategic decision making, assessing the strategic situation, strategic planning systems and techniques, and implementation and control.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/MNGT/899\)](http://bulletin.unl.edu/courses/MNGT/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

MNGT

905**Research Design and Methodology**[LINK \(http://bulletin.unl.edu/courses/MNGT/905\)](http://bulletin.unl.edu/courses/MNGT/905)**Prereqs:**

Permission

Research designs appropriate for basic and field research, including methodology for implementing such designs. An analysis of various statistical methods for evaluating research data. Includes prospectus and manuscript writing and submission; critical review of various research currently published.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

Operations Planning and Control Systems[LINK \(http://bulletin.unl.edu/courses/MNGT/931\)](http://bulletin.unl.edu/courses/MNGT/931)

931

Taught predominately by the case method with a few classes for review and summary lectures. Concentrates on higher management decisions involving the manufacturing, service, and public sectors. Facilities planning, labor, aggregate planning, strategic planning, capacity management, and trade-off analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

932**Business History**[LINK \(http://bulletin.unl.edu/courses/MNGT/932\)](http://bulletin.unl.edu/courses/MNGT/932)

History of business of the leading nations with emphasis on the United States, including the effect of environment upon business, the development of entrepreneurship and management, and the impact of business upon the community and nation. Case histories and entrepreneurial-managerial appraisals.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

MNGT

933**Advanced Topics in Supply Chain Management**[LINK \(http://bulletin.unl.edu/courses/MNGT/933\)](http://bulletin.unl.edu/courses/MNGT/933)

Advanced conceptual and methodological practices in designing and planning supply chain systems. Advances and strategies in supply chain procurement, transportation, distribution and warehousing, globalization, outsourcing, and technology.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MNGT

941**Management Science**[LINK \(http://bulletin.unl.edu/courses/MNGT/941\)](http://bulletin.unl.edu/courses/MNGT/941)

Prereqs:
 Graduate students who have completed all quantitative core requirements equivalent to [MATH 104](http://bulletin.unl.edu/courses/MATH/104) (<http://bulletin.unl.edu/courses/MATH/104>) or [105](http://bulletin.unl.edu/courses/MATH/105) (<http://bulletin.unl.edu/courses/MATH/105>); [ECON 215](http://bulletin.unl.edu/courses/ECON/215) (<http://bulletin.unl.edu/courses/ECON/215>); and [MNGT 331](http://bulletin.unl.edu/courses/MNGT/331) (<http://bulletin.unl.edu/courses/MNGT/331>)

Main concepts and techniques of modern management science for management decision analysis. Application of the tools to real-world decision-making situations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

954**Advanced Topics in Information Systems**[LINK \(http://bulletin.unl.edu/courses/MNGT/954\)](http://bulletin.unl.edu/courses/MNGT/954)

Prereqs:
Permission

Identifies and addresses the current issues in Information Systems. Includes technical and managerial aspects, e.g., Internet, software project management, etc.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

960**Organizational Behavior**[LINK \(http://bulletin.unl.edu/courses/MNGT/960\)](http://bulletin.unl.edu/courses/MNGT/960)

Prereqs:
Permission

Credit Hours:	3
Campus:	

MNGT **969** **Organization and Management Theory**

[LINK \(http://bulletin.unl.edu/courses/MNGT/969\)](http://bulletin.unl.edu/courses/MNGT/969)

Prereqs:
Permission

Major historical perspectives and some of the current competing paradigms in the field of organization theory. Classical management theory, human relations theory, the technology–structure and structure–environment contingency perspectives for organizational design, strategic human resource management, organizational culture, institutional theory, and such current topics as organizational demography and groups in organizations. Critiquing the theoretical perspectives on both conceptual and methodological dimensions as well as developing comparisons and contrasts between the perspectives. Critical elements of theory building in the organizational sciences and the frameworks for examining organizational theory.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT **971** **Strategic Leadership**

[LINK \(http://bulletin.unl.edu/courses/MNGT/971\)](http://bulletin.unl.edu/courses/MNGT/971)

Prereqs:
Permission

The effect of leadership throughout organizations on successful development and execution of organizational strategies. Strategic leadership in organizations and its relationship to domains such as top management teams, board leadership development, organizational visions and cultures, and organizational effectiveness. Relevance of strategic leadership theory and practice to organizational change and/or transformation, strategic alignment, organizational, adaptability, global organizational systems, and authentic organizational decision–making and cultures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT **980** **Seminar in Interpersonal Processes in Organizations**

[LINK \(http://bulletin.unl.edu/courses/MNGT/980\)](http://bulletin.unl.edu/courses/MNGT/980)

Prereqs:
Permission

Field of organizational behavior at the individual level. Two specific features of human behavior: understanding how individuals interact with their environment to explain behavior and performance; and how individuals interact with other actors in their work environment to both facilitate and evaluate attitudes and behavior. Students read existing research literature–to learn the “classic” studies that serve as the foundations for significant organizational behavior theories, and to understand the current conceptual trends, hypotheses, and methodologies involved in advancing these theories.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT **981** **Seminar in Labor Relations**

[LINK \(http://bulletin.unl.edu/courses/MNGT/981\)](http://bulletin.unl.edu/courses/MNGT/981)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT **Seminar in Human Resource Management**

[LINK \(http://bulletin.unl.edu/courses/MNGT/982\)](http://bulletin.unl.edu/courses/MNGT/982)

982

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

983**Seminar in Organizational Behavior**[LINK \(http://bulletin.unl.edu/courses/MNGT/983\)](http://bulletin.unl.edu/courses/MNGT/983)**Prereqs:**
Permission

Capstone seminar in the organizational behavior track. Reflection, perspective and the future of topics in the field of organizational behavior including research methodology, social learning theory/organizational behavior models, managerial activities/behaviors, cross-cultural/international research, and leadership.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

984**Seminar in Operations Management**[LINK \(http://bulletin.unl.edu/courses/MNGT/984\)](http://bulletin.unl.edu/courses/MNGT/984)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

985**Seminar in Strategic Management and Business Policy**[LINK \(http://bulletin.unl.edu/courses/MNGT/985\)](http://bulletin.unl.edu/courses/MNGT/985)**Prereqs:**
MNGT *876 and GRBA *853, or equivalent

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

988**Seminar in Management Information Systems**[LINK \(http://bulletin.unl.edu/courses/MNGT/988\)](http://bulletin.unl.edu/courses/MNGT/988)**Prereqs:**
[MNGT 950 \(http://bulletin.unl.edu/courses/MNGT/950\)](http://bulletin.unl.edu/courses/MNGT/950) or equivalent

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

989**Seminar in Organization and Management Theory**[LINK \(http://bulletin.unl.edu/courses/MNGT/989\)](http://bulletin.unl.edu/courses/MNGT/989)**Prereqs:**
Permission

Current paradigms in the field of organizational theory. Transaction cost economics, agency theory, strategic choice and decision-making, resource dependency, power, population and community ecologies, and interorganizational networks. Current topics in organizational theory. Critiquing the theoretical perspectives on both conceptual and methodological dimensions as well as developing comparisons and contrasts between the perspectives. Ethical code of conduct and other issues involved in publishing in the organizational sciences.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

990**Seminar in History of Management Thought**[LINK \(http://bulletin.unl.edu/courses/MNGT/990\)](http://bulletin.unl.edu/courses/MNGT/990)

Development of management thought from the ancient civilizations of Sumer and Egypt, through the Middle Ages, to more recent developments. Scientific Management School, the contributions of Henri Fayol, and the Hawthorne research. The evolution of management as a body of knowledge.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MNGT

994**Seminar in Selected Topics I**[LINK \(http://bulletin.unl.edu/courses/MNGT/994\)](http://bulletin.unl.edu/courses/MNGT/994)

Prereqs:
Management department permission

Credit Hours:	3-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

MNGT

995**Seminar in Selected Topics II**[LINK \(http://bulletin.unl.edu/courses/MNGT/995\)](http://bulletin.unl.edu/courses/MNGT/995)

Prereqs:
Management department permission

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

MNGT

996**Directed Reading or Research**[LINK \(http://bulletin.unl.edu/courses/MNGT/996\)](http://bulletin.unl.edu/courses/MNGT/996)

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

MNGT

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/MNGT/999\)](http://bulletin.unl.edu/courses/MNGT/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

0

Courses for MRKT (MRKT)

ABUS

855**Marketing and Globalization**Crosslisted as *MRKT 855*[LINK \(http://bulletin.unl.edu/courses/ABUS/855\)](http://bulletin.unl.edu/courses/ABUS/855)

Prereqs:
GRBA *813 or equivalent

Globalization and resulting changes in the business environment. Access to new consumers, new supplies. The effect on consumer choices. Readings from scholarly and popular press, videos, and a "real world" application. Marketing strategies developed for Nebraska firms and organizations such

Credit Hours:	3-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

as value-added food marketers.

MRKT

Services Marketing

[LINK \(http://bulletin.unl.edu/courses/MRKT/426\)](http://bulletin.unl.edu/courses/MRKT/426)

426/826

Prereqs:

[MRKT 341 \(http://bulletin.unl.edu/courses/MRKT/341\)](http://bulletin.unl.edu/courses/MRKT/341).

Services marketing and the services marketing process. Key concepts, issues and terminology. Specific tools and frameworks enabling communication with other professional marketers and analysis of services marketing situations to make realistic recommendations for managerial action.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MRKT

Sports Marketing

[LINK \(http://bulletin.unl.edu/courses/MRKT/428\)](http://bulletin.unl.edu/courses/MRKT/428)

428/828

Prereqs:

[MRKT 341 \(http://bulletin.unl.edu/courses/MRKT/341\)](http://bulletin.unl.edu/courses/MRKT/341) or permission.

Basic concepts and theories unique to sports marketing, review of the basic principles of marketing in the context of sports. Framework provided for incorporation of unpredictable nature of the sports industry and exploration of the complex relationships between the elements of sports and marketing. Current research in the area of sports marketing, coverage of the growing popularity of women's sports, and the globalization of sports.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MRKT

Marketing and Electronic Commerce

[LINK \(http://bulletin.unl.edu/courses/MRKT/441\)](http://bulletin.unl.edu/courses/MRKT/441)

441/841

Prereqs:

[MRKT 341 \(http://bulletin.unl.edu/courses/MRKT/341\)](http://bulletin.unl.edu/courses/MRKT/341); [MRKT 350 \(http://bulletin.unl.edu/courses/MRKT/350\)](http://bulletin.unl.edu/courses/MRKT/350) or [MNGT/MIST 350 \(http://bulletin.unl.edu/courses/MIST/350\)](http://bulletin.unl.edu/courses/MNGT/MIST/350).

Strategies to deal with opportunities and challenges of evolving technology and marketing in digital networks of customers, suppliers, and employees; different interactive marketing platforms for e-commerce; the future and strategic, societal, and ethical implications of technology and interactive marketing in e-commerce.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MRKT

Strategic Database Marketing

[LINK \(http://bulletin.unl.edu/courses/MRKT/450\)](http://bulletin.unl.edu/courses/MRKT/450)

450/850

Prereqs:

For MRKT 450: [ECON 215 \(http://bulletin.unl.edu/courses/ECON/215\)](http://bulletin.unl.edu/courses/ECON/215) or equivalent; [MRKT 341 \(http://bulletin.unl.edu/courses/MRKT/341\)](http://bulletin.unl.edu/courses/MRKT/341) and [350 \(http://bulletin.unl.edu/courses/MRKT/350\)](http://bulletin.unl.edu/courses/MRKT/350). For MRKT 850: [ECON 215 \(http://bulletin.unl.edu/courses/ECON/215\)](http://bulletin.unl.edu/courses/ECON/215) or equivalent.

This course is a prerequisite for: [MRKT 450 \(http://bulletin.unl.edu/courses/MRKT/450\)](http://bulletin.unl.edu/courses/MRKT/450)

Theory and strategic use of large marketing databases. Advances in theory and practice. Concepts of customer relationship management, integration with electronic commerce systems, analytical techniques, and ethics and practices of customer data privacy.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MRKT

Applied Marketing Research

[LINK \(http://bulletin.unl.edu/courses/MRKT/821\)](http://bulletin.unl.edu/courses/MRKT/821)

821

Prereqs:
GRBA *813 or equivalent; EDPS 859
(<http://bulletin.unl.edu/courses/EDPS/859>) or ECON 215
(<http://bulletin.unl.edu/courses/ECON/215>) or equivalent

Research methods to supply marketing information pertaining to the: assessment of the nature of demand, assessment of the extent of demand, marketing program development, and the monitoring of marketing performance.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

822

Survey of Buyer Behavior

[LINK \(http://bulletin.unl.edu/courses/MRKT/822\)](http://bulletin.unl.edu/courses/MRKT/822)

Prereqs:
GRBA *813 or equivalent, or permission

Survey of the literature of buyer behavior. Economic, sociocultural and psychological aspects of buying behavior as the basis of marketing strategy and public policy.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

824

Advanced Quantitative Analysis in Marketing

[LINK \(http://bulletin.unl.edu/courses/MRKT/824\)](http://bulletin.unl.edu/courses/MRKT/824)

Crosslisted as *SRAM 824*

Prereqs:
GRBA *813 or equivalent, or permission

Review, evaluation, and design of advanced marketing research investigations. State-of-the-art methodological issues relevant to marketing to provide an understanding of multivariate data analysis pertinent to the marketing literature. Analysis of linkage, structure, and causality/change for marketing phenomena.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

830

Strategic Issues in Marketing Communication

[LINK \(http://bulletin.unl.edu/courses/MRKT/830\)](http://bulletin.unl.edu/courses/MRKT/830)

Prereqs:
GRBA *813 or equivalent, or permission

Analysis and application of current concepts regarding the formulation and evaluation of marketing communication strategy in organizations which operate on a profit and not-for-profit basis.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

835

Marketing Channels and Distribution

[LINK \(http://bulletin.unl.edu/courses/MRKT/835\)](http://bulletin.unl.edu/courses/MRKT/835)

Prereqs:
GRBA *813 or equivalent, or permission

Marketing management issues related to selection of intermediaries, channel control, marketing institutions, channel power and pricing. Distribution management issues: location, finished goods inventory, transportation, communication, and customer service.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

896

Sports Marketing Practicum

[LINK \(http://bulletin.unl.edu/courses/MRKT/896\)](http://bulletin.unl.edu/courses/MRKT/896)

Prereqs:
MRKT 828 (<http://bulletin.unl.edu/courses/MRKT/828>) and permission

Supervised sports marketing related internship.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT
898

Seminar: Special Topics

[LINK \(http://bulletin.unl.edu/courses/MRKT/898\)](http://bulletin.unl.edu/courses/MRKT/898)

Prereqs:
GRBA 813 (<http://bulletin.unl.edu/courses/GRBA/813>) or equivalent, or permission

Current topics in marketing; services marketing, ethics, and business-to-business marketing.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MRKT
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/MRKT/899\)](http://bulletin.unl.edu/courses/MRKT/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10
Campus:
Course Delivery: Classroom

MRKT
940

Marketing Management

[LINK \(http://bulletin.unl.edu/courses/MRKT/940\)](http://bulletin.unl.edu/courses/MRKT/940)

Prereqs:
Permission

Decision-making activities in problems concerned with the development and management of marketing programs. Strategy choices in situations involving product development, market analysis and segmentation, channels, merchandising, promotion, pricing, and marketing research.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MRKT
944

Theory of Logistics

[LINK \(http://bulletin.unl.edu/courses/MRKT/944\)](http://bulletin.unl.edu/courses/MRKT/944)

Prereqs:
Permission

Critical examination of various theories of structure and operation of logistics systems. Application of logistics theory to business problems.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MRKT
954

Problems in International Marketing

[LINK \(http://bulletin.unl.edu/courses/MRKT/954\)](http://bulletin.unl.edu/courses/MRKT/954)

Prereqs:
Permission

Simulation of marketing decision making in an international environment. Material in the course is balanced between the developed and underdeveloped countries of the world in Europe, Africa, Asia, and the Americas. Case materials are used as a basis for class discussion. Cases and discussions focus on specific interests of students enrolled.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MRKT
970

Development of Marketing Theory

[LINK \(http://bulletin.unl.edu/courses/MRKT/970\)](http://bulletin.unl.edu/courses/MRKT/970)

Prereqs:
Permission

Credit Hours: 3
Campus:

Continuing development of marketing theory, utilizing a review of "classic" and current marketing literature. Historical roots of marketing as a discipline, the requirements for marketing theory, and current efforts and future directions in the development of a mid-range theory of marketing.

Course Delivery: Classroom

MRKT

971

Marketing and Society

[LINK \(http://bulletin.unl.edu/courses/MRKT/971\)](http://bulletin.unl.edu/courses/MRKT/971)

Prereqs:
Permission

Role of the marketing activities and the marketing system in society.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

972

Seminar: Behavioral Research in Marketing

[LINK \(http://bulletin.unl.edu/courses/MRKT/972\)](http://bulletin.unl.edu/courses/MRKT/972)

Prereqs:
MRKT *822, and permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

980

Marketing Colloquium

[LINK \(http://bulletin.unl.edu/courses/MRKT/980\)](http://bulletin.unl.edu/courses/MRKT/980)

Prereqs:
Permission

Seminar in dissertation research topics and methods.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

996

Directed Reading or Research

[LINK \(http://bulletin.unl.edu/courses/MRKT/996\)](http://bulletin.unl.edu/courses/MRKT/996)

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

MRKT

998D

Seminar in Special Topics

Crosslisted as *SRAM 998D*

[LINK \(http://bulletin.unl.edu/courses/MRKT/998D\)](http://bulletin.unl.edu/courses/MRKT/998D)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

MRKT

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/MRKT/999\)](http://bulletin.unl.edu/courses/MRKT/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

Courses for ACCT (ACCT)

ACCT

Advanced Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/404\)](http://bulletin.unl.edu/courses/ACCT/404)

404/804

Prereqs:

[ACCT 314 \(http://bulletin.unl.edu/courses/ACCT/314\)](http://bulletin.unl.edu/courses/ACCT/314) with grade of C or better, or permission.

Special accounting problems relating to the preparation of combined and consolidated financial statements for accounting entities with branch offices and with subsidiaries, both domestic and foreign; partnership accounting; accounting for foreign currency transactions and translations; governmental and not-for-profit accounting.

Credit Hours: 3

Course Delivery: Classroom

ACCT

Advanced Managerial Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/408\)](http://bulletin.unl.edu/courses/ACCT/408)

408/808

Prereqs:

[FINA 361 \(http://bulletin.unl.edu/courses/FINA/361\)](http://bulletin.unl.edu/courses/FINA/361) and [ACCT 308 \(http://bulletin.unl.edu/courses/ACCT/308\)](http://bulletin.unl.edu/courses/ACCT/308) with grade of C or better, or permission.

Advanced treatment of managerial accounting topics with emphasis on generation, communication, and use of information to assist management in performance of the planning and control function. Problems, cases, library materials, and computer systems analysis are used to develop understanding of variance analysis, cost systems, capital budgeting, and other quantitative techniques relevant to internal accounting.

Credit Hours: 3

Course Delivery: Classroom

ACCT

Auditing

[LINK \(http://bulletin.unl.edu/courses/ACCT/410\)](http://bulletin.unl.edu/courses/ACCT/410)

410/810

Prereqs:

[ACCT 309 \(http://bulletin.unl.edu/courses/ACCT/309\)](http://bulletin.unl.edu/courses/ACCT/309) and [314 \(http://bulletin.unl.edu/courses/ACCT/314\)](http://bulletin.unl.edu/courses/ACCT/314), both with a grade of C or better.

Duties and responsibilities of auditors, methods of conducting various kind of audits; audit working papers; the preparation of the audit report; the auditor's certificate; special problems in the audit of different kinds of enterprises.

Credit Hours: 3

Course Delivery: Classroom

ACCT

Federal Tax Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/412\)](http://bulletin.unl.edu/courses/ACCT/412)

412/812

Prereqs:

[ACCT 313 \(http://bulletin.unl.edu/courses/ACCT/313\)](http://bulletin.unl.edu/courses/ACCT/313) with a grade of C or better, or permission.

Federal and state income tax concepts. Includes theory and historical growth of the fundamentals of the federal tax laws and regulations. Emphasis on the practical application of the tax laws in the preparation of the tax returns (for wage earners and sole proprietors) and the need for tax planning.

Credit Hours: 3

Course Delivery: Classroom

ACCT

Accounting Standards

[LINK \(http://bulletin.unl.edu/courses/ACCT/802\)](http://bulletin.unl.edu/courses/ACCT/802)

802

Prereqs:

[ACCT 810 \(http://bulletin.unl.edu/courses/ACCT/810\)](http://bulletin.unl.edu/courses/ACCT/810) with a grade of C

Credit Hours: 3

or better, or permission

Analysis of changes in authoritative audit and accounting pronouncements. Besides topical coverage, recent discussion memoranda, technical bulletins, interpretations and statements of policy will be emphasized as to their integration into the accounting framework.

Campus:	
Course Delivery:	Classroom

ACCT
803 Seminar in Financial Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/803\)](http://bulletin.unl.edu/courses/ACCT/803)

Prereqs:
Admission to the Masters of Professional Accountancy (MPA) program;
or permission of MPA faculty adviser and instructor

The economic characteristics of accounting information as they relate to the role played by financial accounting reports in allocating capital.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

ACCT
805 Financial Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/805\)](http://bulletin.unl.edu/courses/ACCT/805)

This course is a prerequisite for: [ACCT 888 \(http://bulletin.unl.edu/courses/ACCT/888\)](http://bulletin.unl.edu/courses/ACCT/888)

ACCT 805 (http://bulletin.unl.edu/courses/ACCT/805) is not open to Masters of Professional Accountancy (MPA) students.

Basics of financial accounting and reporting. The construction of financial statements and their interpretation for internal and external users of financial information.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ACCT
807 Professional Responsibility and Ethics in Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/807\)](http://bulletin.unl.edu/courses/ACCT/807)

Prereqs:
Permission of MBA or MPA director

Standards of ethical financial reporting and corporate governance in the context of the legal, regulatory, and social environments of corporate business. Acts of law and sanctions imposed for violations of standards of financial reporting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ACCT
813 Corporate Tax Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/813\)](http://bulletin.unl.edu/courses/ACCT/813)

Prereqs:
[ACCT 812 \(http://bulletin.unl.edu/courses/ACCT/812\)](http://bulletin.unl.edu/courses/ACCT/812) and admission to the Master of Professional Accountancy Program

Federal income taxation for corporations. Tax laws associated with formation, operation, distribution, redemption, and reorganizations are analyzed.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ACCT
814 Governmental and Not-For-Profit Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/814\)](http://bulletin.unl.edu/courses/ACCT/814)

Prereqs:
[ACCT 314 \(http://bulletin.unl.edu/courses/ACCT/314\)](http://bulletin.unl.edu/courses/ACCT/314)

Accounting and reporting for governmental units and organizations established as not-for-profit corporations. Expanded treatment of fund accounting and reporting for agencies operated in and for the general public

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

interest.

ACCT

815

Tax Research and Planning

[LINK \(http://bulletin.unl.edu/courses/ACCT/815\)](http://bulletin.unl.edu/courses/ACCT/815)

Prereqs:

[ACCT 812 \(http://bulletin.unl.edu/courses/ACCT/812\)](http://bulletin.unl.edu/courses/ACCT/812)

Development of skills in identifying problems, interpreting facts, conducting research, and communicating results in the field of Federal taxation.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ACCT

816

Special Topics in Federal Taxation

[LINK \(http://bulletin.unl.edu/courses/ACCT/816\)](http://bulletin.unl.edu/courses/ACCT/816)

Prereqs:

[ACCT 812 \(http://bulletin.unl.edu/courses/ACCT/812\)](http://bulletin.unl.edu/courses/ACCT/812)

Areas of Federal law that are especially relevant in the prevailing economic and political climate.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ACCT

817

The Income Tax and Management Decisions

[LINK \(http://bulletin.unl.edu/courses/ACCT/817\)](http://bulletin.unl.edu/courses/ACCT/817)

Prereqs:

Courses constituting the equivalent of the undergraduate Common Body of Knowledge requirement for CBA

The impact of Federal income tax law on management decisions, more from the viewpoint of recognizing problems than prescribing solutions.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ACCT

819

Partnership Tax Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/819\)](http://bulletin.unl.edu/courses/ACCT/819)

Federal income taxation for partnerships. Tax laws associated with formation, operation, distribution, disposal, and dissolution.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

ACCT

831

Seminar in Auditing

[LINK \(http://bulletin.unl.edu/courses/ACCT/831\)](http://bulletin.unl.edu/courses/ACCT/831)

Prereqs:

Admission to the Masters of Professional Accountancy (MPA) program; or permission of MPA faculty adviser and instructor

Credit Hours: 3

Campus:

Course Delivery: Classroom

ACCT

837

Taxation-Individual Income

Crosslisted as *LAW 637G*

[LINK \(http://bulletin.unl.edu/courses/ACCT/837\)](http://bulletin.unl.edu/courses/ACCT/837)

The structure and content of the federal income tax system, focusing on taxation of individuals. Income, deductions, income splitting, capital gains, and tax accounting. Technical proficiency in solving tax problems and an understanding of the tax policy decisions implicit in the technical rules.

Credit Hours: 3-4

Max credits per degree: 4

Campus:

Course Delivery: Classroom

ACCT

838**Taxation-Corporate**[LINK \(http://bulletin.unl.edu/courses/ACCT/838\)](http://bulletin.unl.edu/courses/ACCT/838)**Prereqs:**[LAW 637G \(http://bulletin.unl.edu/courses/LAW/637G\)](http://bulletin.unl.edu/courses/LAW/637G).

Pre- or coreq: [LAW 632 \(http://bulletin.unl.edu/courses/LAW/632\)/G](http://bulletin.unl.edu/courses/LAW/632/G).
Advanced federal income tax focusing on income taxation of corporations and shareholders.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

ACCT

840**Fraud Examination**[LINK \(http://bulletin.unl.edu/courses/ACCT/840\)](http://bulletin.unl.edu/courses/ACCT/840)**Prereqs:**

Admission to the Masters of Professional Accountancy (MPA) program, or permission of MPA faculty adviser and instructor.

Fraud and how fraud differs from other crimes. Fraud techniques, schemes, and actual fraud cases.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ACCT

848**Business Planning**[LINK \(http://bulletin.unl.edu/courses/ACCT/848\)](http://bulletin.unl.edu/courses/ACCT/848)Crosslisted as *LAW 648G***Prereqs:**[LAW 632 \(http://bulletin.unl.edu/courses/LAW/632\)/G](http://bulletin.unl.edu/courses/LAW/632/G), 638/G

Series of separate, rather detailed planning problems. Each problem calls for the selection and planning of a transaction to meet the needs of the parties involved, in light of applicable corporate, partnership, tax, and securities considerations.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

ACCT

857**Controllership**[LINK \(http://bulletin.unl.edu/courses/ACCT/857\)](http://bulletin.unl.edu/courses/ACCT/857)**Prereqs:**

Admission to either the Masters of Professional Accountancy (MPA) or MBA program; or permission of MPA faculty adviser and instructor; ACCT 808 (http://bulletin.unl.edu/courses/ACCT/808) or GRBA 810 (http://bulletin.unl.edu/courses/GRBA/810)

Rudiments of conceptual framework for designing and evaluating management accounting and control systems for business firms and situations. Case studies on the management aspects of budgeting, standard setting, variance analysis, cost allocation, operating control, transfer pricing, capital budgeting, performance evaluation, and other pertinent topics relating to managerial uses of accounting data.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ACCT

858**Seminar in Managerial Accounting**[LINK \(http://bulletin.unl.edu/courses/ACCT/858\)](http://bulletin.unl.edu/courses/ACCT/858)**Prereqs:**

Admission to either the Masters of Professional Accountancy (MPA) or MBA program; or permission of MPA faculty adviser and instructor

This course is a prerequisite for: [ACCT 995 \(http://bulletin.unl.edu/courses/ACCT/995\)](http://bulletin.unl.edu/courses/ACCT/995)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ACCT

863**Taxation-Individual Income II**[LINK \(http://bulletin.unl.edu/courses/ACCT/863\)](http://bulletin.unl.edu/courses/ACCT/863)Crosslisted as *LAW 663G*

Most important tax principles affecting business and investments, as well as an introduction to basic tax procedure (both administrative and judicial), civil and criminal fraud, tax research, and certain ethical issues common in tax practice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ACCT

888

Financial Reporting and Analysis

[LINK \(http://bulletin.unl.edu/courses/ACCT/888\)](http://bulletin.unl.edu/courses/ACCT/888)

Prereqs:

Intermediate financial accounting or [ACCT 805](http://bulletin.unl.edu/courses/ACCT/805) (<http://bulletin.unl.edu/courses/ACCT/805>); permission of the MBA director

How to effectively utilize accounting information presented in financial statements. Analysis of primary financial statements, revenue recognition practices, the financial reporting system, the effects of accounting method choice on reported financial data, and firm valuation.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

ACCT

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/ACCT/899\)](http://bulletin.unl.edu/courses/ACCT/899)

Prereqs:

Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

ACCT

906

Seminar in Comparative Accounting Systems

[LINK \(http://bulletin.unl.edu/courses/ACCT/906\)](http://bulletin.unl.edu/courses/ACCT/906)

Prereqs:

Permission (ordinarily at least two senior-level courses in accounting or ACCT *801 and suitable supporting courses)

A research seminar on the conceptual framework underlying selected accounting systems or subsystems. The specific systems studied vary depending upon interest and background of enrolled students, but ordinarily include insurance or other regulatory systems, governmental or other not-for-profit systems, Securities and Exchange Commission regulations, federal income tax rules, and foreign systems. Contrasts with traditional financial and managerial reporting systems and the reasons for the differences that exist.

Credit Hours: 3

Max credits per degree: 24

Campus:

Course Delivery: Classroom

ACCT

916

Seminar in Contemporary Accounting Theory: Empirical Tests and Methodologies

[LINK \(http://bulletin.unl.edu/courses/ACCT/916\)](http://bulletin.unl.edu/courses/ACCT/916)

Prereqs:

ACCT *803

Empirical validations and implications of accounting information. The convergence of accounting with other disciplines such as: behavioral sciences; portfolio theory; and information theory. Recent empirical studies such as: implications of the efficient capital market hypothesis on external financial reporting, information content of financial reports, and market perceptions of external accounting information.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

ACCT

920

History and Philosophy of Accounting Thought

[LINK \(http://bulletin.unl.edu/courses/ACCT/920\)](http://bulletin.unl.edu/courses/ACCT/920)

Prereqs:

Permission

Credit Hours: 3

The historical development of accounting thought and the individuals, institutions, organizations, and philosophies that shaped its past and present and will influence its future.

Campus:
Course Delivery: Classroom

ACCT
945 Partnership Taxation

[LINK \(http://bulletin.unl.edu/courses/ACCT/945\)](http://bulletin.unl.edu/courses/ACCT/945)

Prereqs:
[ACCT 812 \(http://bulletin.unl.edu/courses/ACCT/812\)](http://bulletin.unl.edu/courses/ACCT/812) or [LAW 637G \(http://bulletin.unl.edu/courses/LAW/637G\)](http://bulletin.unl.edu/courses/LAW/637G).

Survey of important principles of partnership taxation.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

ACCT
967 Estate Planning

Crosslisted as *LAW 767G*

[LINK \(http://bulletin.unl.edu/courses/ACCT/967\)](http://bulletin.unl.edu/courses/ACCT/967)

Prereqs:
[LAW 637 \(http://bulletin.unl.edu/courses/LAW/637/G\)](http://bulletin.unl.edu/courses/LAW/637/G)

Pre- or coreq: [LAW 639 \(http://bulletin.unl.edu/courses/LAW/639/G\)](http://bulletin.unl.edu/courses/LAW/639/G).
Federal estate and gift taxation, related income tax rules, estate planning concepts, and state inheritance taxation.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

ACCT
968 Estate Planning Problems

[LINK \(http://bulletin.unl.edu/courses/ACCT/968\)](http://bulletin.unl.edu/courses/ACCT/968)

Prereqs:
[LAW 767G \(http://bulletin.unl.edu/courses/LAW/767G\)](http://bulletin.unl.edu/courses/LAW/767G).

Problems of planning and implementing estate plans for clients of substantial wealth with emphasis on skills of drafting the various legal instruments usually required for comprehensive estate planning.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

ACCT
969 Tax Policy Seminar

Crosslisted as *LAW 769G*

[LINK \(http://bulletin.unl.edu/courses/ACCT/969\)](http://bulletin.unl.edu/courses/ACCT/969)

Policies of federal income taxation with emphasis on current legislative proposals and alternatives.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

ACCT
984 Seminar in Selected Topics

[LINK \(http://bulletin.unl.edu/courses/ACCT/984\)](http://bulletin.unl.edu/courses/ACCT/984)

Prereqs:
Admission to PhD program and permission.

Topics vary.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

ACCT
990 Accountancy Internship

[LINK \(http://bulletin.unl.edu/courses/ACCT/990\)](http://bulletin.unl.edu/courses/ACCT/990)

Prereqs:
Admission to MPA program, permission of MPA adviser, and acceptance into approved internship program

Credit Hours: 1-3
Max credits per degree: 6

Maximum of 6 sem hrs can be counted towards the MPA degree. Students present oral and written reports to faculty seminar once a semester. Independent study of theories, principles, practices, techniques, and strategies utilized in the accounting field. Practical experience in professional accounting situations through a preapproved internship program.

Campus:	
Course Delivery:	Classroom

ACCT
991 Seminar in Capital Market Research in Accounting

[LINK \(http://bulletin.unl.edu/courses/ACCT/991\)](http://bulletin.unl.edu/courses/ACCT/991)

Prereqs:
Admission to PhD program, completion of research tools requirement, and permission

Capital market effects of accounting measurements and presentation, foundation of capital market research in accounting, methodology in conducting capital market research, and implication of capital market effects on accounting policy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ACCT
992 Seminar in Behavioral Accounting Research

[LINK \(http://bulletin.unl.edu/courses/ACCT/992\)](http://bulletin.unl.edu/courses/ACCT/992)

Prereqs:
Admission to PhD program, completion of research tools requirements, and permission

MNGT 960 (<http://bulletin.unl.edu/courses/MNGT/960>) recommended. Behavioral factors in accounting system, design, audit judgment, decision making using accounting data, performance evaluation, accounting policy formation, and other accounting-related tasks.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ACCT
993 Seminar in Analytical Accounting Models

[LINK \(http://bulletin.unl.edu/courses/ACCT/993\)](http://bulletin.unl.edu/courses/ACCT/993)

Prereqs:
Admission to PhD program and permission

Measurement alternatives through modeling of choices and economic analysis of information choices.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ACCT
995 Seminar in Contemporary Managerial Accounting: Selected Topics

[LINK \(http://bulletin.unl.edu/courses/ACCT/995\)](http://bulletin.unl.edu/courses/ACCT/995)

Prereqs:
[ACCT 858 \(http://bulletin.unl.edu/courses/ACCT/858\)](http://bulletin.unl.edu/courses/ACCT/858) or equivalent

May be repeated for credit if different subject matter. Special subjects in contemporary managerial accounting.

Credit Hours:	3
Max credits per degree:	24
Campus:	
Course Delivery:	Classroom

ACCT
996 Directed Reading or Research

[LINK \(http://bulletin.unl.edu/courses/ACCT/996\)](http://bulletin.unl.edu/courses/ACCT/996)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

Prereqs:

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1–24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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- [2 Faculty \(#Faculty\)](#)

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Business). (<http://www.unl.edu/gradstudies/prospective/programs/Business>)

Area Committee: Professors Ravi Sohi (chair), Gentry, Luthans, Smith

School/Departments Cooperating: Accountancy, Finance, Management, and Marketing

The Business Interdepartmental Area Graduate Committee makes recommendations to the UNL Dean of Graduate Studies regarding the admission of students for study leading to the degree programs. The department offers an MA, MBA, MBA/JD, MBA/MARC (Master of Architecture), MPA, and the PhD program. These programs are accredited by the Association to Advance Collegiate Schools of Business.

Applicants for the various advanced degree programs offered by the Business Interdepartmental Area must hold a baccalaureate degree, or be in the process of completing a degree, from an accredited college or university and are expected to have a satisfactory scholastic average. In addition, they must have a satisfactory score on the Graduate Management Admission Test (GMAT) and present three letters of recommendation regarding their capacity for graduate study. Information regarding the GMAT may be obtained at mba.com. PhD students who wish to be considered for fellowships or assistantships during the academic year should begin the application process by December 1. MBA students need to be admitted by March 1 in order to be fully considered. Fellowships and assistantships are only available to full-time students in the on-campus program.

Applicants for admission to the masters programs (MA, MS, MPA), other than MBA programs, are normally graduates of an Association to Advance Collegiate Schools of Business (AACSB) accredited institution. Students who are not graduates of an AACSB accredited college or school of business are usually required to complete several courses to satisfy the Common Body of Knowledge (CBK), which consists of a combination of undergraduate and graduate courses. Students who hold a bachelors degree in business administration or who have previously completed undergraduate course work in these areas may be able to have some CBK courses waived. In addition, students are expected to have completed a course in calculus and to have satisfied the written and oral communication requirements of the department. Transcripts will be reviewed at the time of admission to determine any entrance deficiencies.

NOTE: No student on nondegree status may take graduate courses in the business area without prior specific written approval of the chair of the Graduate Committee.

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Master of Business Administration

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Business_MBA). ([http://www.unl.edu/gradstudies/prospective/programs/Business MBA](http://www.unl.edu/gradstudies/prospective/programs/Business_MBA))

The MBA program is designed to provide students with broad exposure to business administration and its functional areas. Those who have little or no previous course work in business will find the MBA program beneficial. Students from areas such as the humanities, sciences, engineering, social sciences, journalism, education, agriculture, and architecture choose the MBA program. Students interested in the MBA program may register as a full-time or part-time student. On-campus courses are offered during the fall, spring and summer sessions.

The MBA program is also available on-line. This on-line delivery, along with the modular scheduling, allows today's working professional the opportunity to participate in an internationally recognized program without any career interruptions. If travel, job or family obligations prevent you from attending traditional on-campus classes, the flexibility of on-line classes brings the UNL MBA to you--on your schedule.

For additional information on the Distance MBA program, contact:

Kerri Hiatt
Distance MBA Program Coordinator and Advisor
University of Nebraska-Lincoln

402-472-9033, Voice
402-472-5997, Fax
khiatt3@unl.edu
<http://mba.unl.edu> (<http://mba.unl.edu>)

The College of Business offers several joint and cooperative MBA programs:

- An MBA program with a specialization in agribusiness is offered in cooperation with the College of Agricultural Sciences and Natural Resources.
- The MBA/JD program is a joint program offered by the Business Interdepartmental Area and the Law College. Students interested in pursuing a career in corporate law, general law practice, government regulations, business management, or other business-related fields may pursue this program.
- The MBA/M.Arch architecture program is offered by the business interdepartmental areas and the College of Architecture. The program is based on the increased need for architects to be well versed in business practices. Students can complete this program in a three-year sequence.

Students seeking the MBA degree will normally complete 48 hours of graduate credit. A student who has no previous course work in business administration may want to complete some of the Common Body of Knowledge (CBK) requirements, but the prerequisites are calculus, statistics, and computer proficiency. Students who hold a bachelors degree in business may be allowed to waive some of the MBA core classes. This determination will be made upon admission.

The graduate core consists of the following 18 hours of course work: GRBA 810, 811, 812, 813, 814, and 815.

The cross-functional requirements include GRBA 851, 852, 853, and 896 or 898. GRBA 853 is to be taken in the student's final semester in the program.

The breadth requirements include an additional 9 hours from three of the five interdepartmental business areas--accounting, economics, finance, marketing, and management. At least 6 of the 9 hours must be graduate-only courses (*800 or 900).

An additional 9 hours of elective courses are required. These courses may be selected in the areas of the interdepartmental programs. Alternatively, these courses may be taken outside of the College of Business Administration with advisor approval. At least one course must be graduate-only (*800 or 900).

MBA students admitted with limited professional work experience must complete an internship. Students may receive elective credit for their internship in GRBA 890 as part of their program. A maximum of 6 credit hours may be earned from two separate internship experiences.

MBA students may structure the electives and breadth requirements into a specialization. A specialization is made up of 9 hours, 6 of which must be graduate-only (*800 or 900) in an area of business. Please see an MBA advisor for more information.

According to the policies of the Graduate College and the business interdepartmental area faculty, candidates for the MBA are required to take a final written, comprehensive examination. This exam will be administered in GRBA 853, which should be taken during a student's final semester in the program.

In addition to the MBA application and admission requirements listed above, students interested in the MBA/JD program must also submit Law College application materials and be admitted to the law program. Because the Law College only admits first-year students in the fall semester, application materials must be received by March 1 in order to be considered for the following academic year. For further information on the program, please contact the Assistant Dean, College of Law, University of Nebraska-Lincoln.

Q

Master of Professional Accountancy

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Accountancy). (<http://www.unl.edu/gradstudies/prospective/programs/Accountancy>)

The mission of the School of Accountancy is to provide quality teaching, research, and service and to maintain a leadership role in accounting education. The objective of the master of professional accountancy program is to provide candidates with greater breadth and depth in accounting education, and related subjects and skills, than is possible in a baccalaureate program in preparation for careers as professional accountants.

Students interested in a career in accounting should consider the Master of Professional Accountancy (MPA) degree. This degree may be earned by students pursuing a Bachelor of Business Administration degree at UNL or by students who have already completed an undergraduate degree. Because admission and enrollment in the MPA program involves specific requirements that differ from those of other business programs, students interested in this degree should contact the MPA adviser, Dr. Jim Brown, prior to enrolling in course work: jbrown2@unl.edu or 402-472-2320.

The MPA/JD program is a joint program offered by the School of Accountancy and the College of Law. Students interested in a career in taxation or other law/accounting-related fields may pursue this program.

Admission and enrollment in this program has some very specific deadlines which differ from those described above. It is very important for students interested in this program to consult with the Director of the MPA program, prior to applying for admission.

Applicants for admission to the MPA program are normally either enrolled in the bachelors degree program in business administration at UNL (provisional status) or are graduates of an accredited institution (full graduate standing).

Applicants must have a satisfactory score on the Graduate Management Admission Test (GMAT), submit three letters of recommendation for graduate study, and (if a graduate of another institution) provide one copy of an official transcript covering all collegiate work completed. At the time of admission, transcripts are reviewed to determine if any deficiencies must be completed to satisfy accreditation standards (as established by the American Assembly of Collegiate Schools of Business).

The MPA program is generally pursued by those students who are in the process of completing their bachelors degree in business administration at the University of Nebraska-Lincoln. It is recommended that students apply to this program during the first semester of their senior year. Students from other departments and institutions interested in this program may apply for admission during their senior year or after completion of the bachelors degree.

In addition to satisfying the Common Body of Knowledge (CBK) requirements and other general requirements as set forth by the Business Interdepartmental Area and the Graduate College, students may also be required to complete undergraduate accounting prerequisite courses. These courses include ACCT 201, 202, 308, 309, 313, and 314. Students admitted to the program while enrolled in the bachelors degree in business administration at UNL will complete a minimum of 156 hours of semester credit—with 36 of these hours taken in graduate-level courses. A minimum of 20 hours of credit must be earned in graduate-only course work (courses with no 400-level counterpart). Fifteen hours of graduate-only course work must be completed in accounting. Students who have not previously completed an administrative policy course will be required to take GRBA 853, Strategic Management and Business Policy. During the final semester of the program, students will be required to pass an oral comprehensive examination.

A complete listing of the requirements for the MPA Program are available from the Director of the MPA Program.

In addition to the MPA application and admission requirements listed above, students interested in the MPA/JD program must also submit College of Law application materials and be admitted to the law program. Since the College of Law only admits first-year students in the fall semester, application materials must be received by March 1 in order to be considered for the following academic year. For further information on the program, contact the Assistant Dean, College of Law, University of Nebraska-Lincoln.

Q **Master of Arts and Doctor of Philosophy**

To qualify for admission to either program, students must normally have graduated from an accredited institution with a degree in business administration. Students applying to the MA program who are not graduates of an Association to Advance Collegiate Schools of Business (AACSB) accredited college or school of business administration will be required to complete the Common Body of Knowledge courses.

The Common Body of Knowledge (CBK) consists of the following classes: BLAW 371 or 372 (Legal Environment); ACCT 201 and 202 (Principles) or 306; ECON 211 and 212 (Principles) or 210, ECON 215 or STAT 218 (Statistics); FINA 361 (Finance); MRKT 341 (Marketing); MNGT 360 (Managing Behavior in Organizations); and MNGT 331 (Operations and Resources Management). In addition, students are expected to have completed a course in calculus (MATH 104 or 106) and show computer proficiency (BSAD 150) and oral and written communication skills (ENGL 150, ENGL 254 or COMM 286). Furthermore, students who have not previously completed an administrative policy course will be required to take GRBA 853, Strategic Management and Business Policy.

The MA program provides the opportunity for students to focus on one or two areas of business (or one area of business and one area outside of business with the approval of the adviser). The MA program is normally chosen by students who wish to build more knowledge in the area of specialization.

The MA degree is offered under all three options according to requirements of the Graduate College. A faculty adviser is responsible for and designs a student's MA program. The student is expected to complete a program in one or two principal fields to be selected from banking, finance, insurance, investments, management information systems, management science, organization and management theory, marketing, marketing channels, organizational behavior, personnel and labor relations, production, strategic management, and promotion. The supporting field may be selected from the above or, in the case of Option II, an outside minor with the approval of the adviser. Under Options I and II, a minimum of 16 hours of course work must be earned in courses open exclusively to graduate students. Under Option III, a minimum of 18 hours must be earned in graduate-only courses. Graduate business administration 853 and departmental 996, directed reading courses, may not be used to fulfill the minimum hours required in courses open exclusively to graduate students (900 level or 800 level without 400 or lower counterparts) for all three options.

The MA student is required to take written and/or oral comprehensive examinations according to the requirements of the Graduate College. At the discretion of the adviser, this examination may include a separate section specifically covering the supporting field.

The Marketing Department also offers a specialization in marketing, communications studies, and advertising. This is an Option III program. The program consists of a major – a minimum of 18 hours in marketing and two minors of 9 hours – one in communication studies and one in advertising. Eighteen hours of the program are specified courses which includes 6 hours from each of the following three departments: marketing, communication studies, and advertising. A comprehensive oral examination is also required.

The PhD program is designed primarily for those who expect to pursue a career in research or university-level teaching.

Students in a graduate business program must earn a grade of B or better in 800-level course work in a minor, or allied, or supporting course work to be recommended for a graduate degree.

Students interested in the programs offered by the Business Interdepartmental Area may contact Graduate Advising for further information:

Graduate Advising
University of Nebraska-Lincoln
139 CBA
PO Box 880405
Lincoln, NE 68588-0405
402-472-2338
cbagrad@unl.edu

Students in the MA, MPA, MBA, MS, MBA/JD and MBA/MArch program should also be aware of the requirement of submission of the Memorandum of Courses form prior to completion of half the program. Please contact your advisor for more information.

Applicants for admission to the PhD program should be graduates of an accredited institution with a degree in business administration. Students who are not graduates of an AACSB accredited college or school of business may be required to complete courses to satisfy the Common Body of Knowledge. Some programs may permit the student to substitute appropriate courses in analytical techniques or behavioral sciences to fulfill this requirement. A student's supervisory committee will make this determination at the time of admission to the program.

In addition to the general requirements of the Graduate College for the doctor of philosophy degree, students are normally required to choose four fields of emphasis. At least half of the fields must be in the business area, including banking, finance, financial accounting, insurance, international marketing, investments,

managerial accounting, management information systems, management science, organization and management theory, marketing, marketing channels, organizational behavior/human resources management, production and operations management, promotion, strategic management, and taxation. Fields in the Department of Economics may be included in the program. Each of the fields will normally be covered by a comprehensive examination. Approved minors, if used, may include the areas of mathematics, political science, psychology, economics, and sociology or others specifically approved by the supervisory committee.

As part of their regular course work, doctoral students are required to take ECON 852 Teaching College Economics and Business prior to, or parallel, with the first course taught. In addition to the regular course work and research prescribed in a PhD program, a student must complete a minimum of 9 hours of acceptable course work for the research tool requirement. These hours must be completed after receipt of the bachelors degree and may be taken as either graduate-level or undergraduate-level courses designated by the supervisory committee. The tool may include courses in one or more of the following fields designated by the supervisory committee: research methods, statistics, mathematics, computer science, or foreign language. These hours will not be part of the required minimum 90 hours for the PhD degree.

Specializations available at the doctoral level:

Accountancy; Finance; Management; Marketing

Q

School of Accountancy

For a brief description of the program, application requirements and contact information, view the graduate program summary, [Click here.](http://www.unl.edu/gradstudies/prospective/programs/Accountancy)
(<http://www.unl.edu/gradstudies/prospective/programs/Accountancy>)

Director: Paul Shoemaker, Ph.D.

Graduate Committee Chair: David Smith, Ph.D.

Students not seeking a law degree may be admitted to one or more of the cross-listed College of Law courses in the School of Accountancy with the specific approval of the faculty member teaching the course and the Dean of the College of Law.

For admission to all graduate courses, the prerequisite course must have been completed with a C or better or the student must have permission of the instructor.

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Finance

View the PhD program information [in Finance](http://cba.unl.edu/departments/finance/programs/phd.aspx) (<http://cba.unl.edu/departments/finance/programs/phd.aspx>).

Department Chair: Manfred Peterson, Ph.D.

Graduate Chair: John Geppert, Ph.D.

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Management

View the program information [in Business](http://www.unl.edu/gradstudies/prospective/programs/Business) (<http://www.unl.edu/gradstudies/prospective/programs/Business>).

Department Chair: Gwen Combs, Ph.D.

Graduate Chair: Peter Harms, Ph.D.

The Ph.D. program in Management is a research-oriented opportunity for students to prepare for successful academic careers as faculty in Colleges of Business. We prepare students to pursue high quality scholarship, and to perform effectively in the classroom. The program requires full-time participation.

Admission

We will be inviting applications for admission to the program in Fall 2012. We anticipate admitting 2-3 students per year. Students admitted to the program typically will have a Masters degree in a Business discipline or related field from an accredited university. A GMAT/GRE score will be required as part of the admission process. The GMAT/GRE score is not the sole admission criterion, however the average score for admitted students will be targeted at 1400+ using the sum of GMAT (or GRE equivalent) and 200* GPA.

Coursework

The program provides a broad base in contemporary issues in Management, and will take at least four years to complete: two to two and a half years of coursework, with the remainder devoted to dissertation research, teaching, and other research projects aimed at assisting students develop their own programmatic research agenda. Typically, students will complete at least six courses from the Management Department in the areas of Organizational Behavior, Human Resources, Strategy, Leadership, and Organizational Research Methods. Students will be required to complete at least four courses in various statistical and/or qualitative data analysis techniques, and three courses in an approved minor area of study.

Typically, students will take their comprehensive exams at the end of their second summer in residence after their core curriculum requirements have been met. Upon successful completion of comprehensive exams students will be expected to defend a dissertation proposal in the following academic year, and then successfully defend the completed dissertation within 1-2 years of the proposal defense.

In addition to the feedback received in coursework, students will be evaluated each year by the faculty to ensure satisfactory progress toward the degree.

Support

Students accepted into the Ph.D. program in Management will receive a stipend, tuition remission, and basic health insurance offered by the University of

Nebraska's student health insurance plan. Students can also expect some support for travel to professional meetings where they are presenting papers based on their research.

Student Life

Ph.D. students are expected to be active partners in the academic community. They will have an opportunity to work with different faculty, teach for at least two semesters, develop independent research projects, and participate in various brownbag sessions, current topics seminars, and doctoral development sessions.

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Marketing

View the Masters Degree program information [in Marketing](http://cba.unl.edu/departments/marketing/programs/masters.aspx) (<http://cba.unl.edu/departments/marketing/programs/masters.aspx>).

View the PhD program information [in Marketing](http://cba.unl.edu/departments/marketing/programs/phd.aspx) (<http://cba.unl.edu/departments/marketing/programs/phd.aspx>).

Interim Department Chair: A. Dwayne Ball, Ph.D.

Graduate Committee Chair: James Gentry, DBA

Faculty

School of Accountancy

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Accountancy). (<http://www.unl.edu/gradstudies/prospective/programs/Accountancy>)

Finance

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Business). (<http://www.unl.edu/gradstudies/prospective/programs/Business>)

Management

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Business). (<http://www.unl.edu/gradstudies/prospective/programs/Business>)

Marketing

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Business). (<http://www.unl.edu/gradstudies/prospective/programs/Business>)

Retrieved from "<http://bulletin.unl.edu/graduate/Business> (<http://bulletin.unl.edu/graduate/Business>)"

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Chemistry

Ω

Courses for CHEM (CHEM)

BIOC 431/831	Biomolecules and Metabolism Crosslisted as <i>BIOS 431/831, CHEM 431/831</i>	LINK (http://bulletin.unl.edu/courses/BIOC/431)
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Prereqs:
[CHEM 252](http://bulletin.unl.edu/courses/CHEM/252) (<http://bulletin.unl.edu/courses/CHEM/252>) or [262](http://bulletin.unl.edu/courses/CHEM/262) (<http://bulletin.unl.edu/courses/CHEM/262>). [BIOS 102](http://bulletin.unl.edu/courses/BIOS/102) (<http://bulletin.unl.edu/courses/BIOS/102>) recommended.

This course is a prerequisite for: [BIOC 432](http://bulletin.unl.edu/courses/BIOC/432) (<http://bulletin.unl.edu/courses/BIOC/432>), [BIOC 433](http://bulletin.unl.edu/courses/BIOC/433) (<http://bulletin.unl.edu/courses/BIOC/433>), [BIOS 950](http://bulletin.unl.edu/courses/BIOS/950) (<http://bulletin.unl.edu/courses/BIOS/950>)

First course of a two-semester, comprehensive biochemistry course sequence.

Structure and function of proteins, nucleic acids, carbohydrates and lipids; nature of enzymes; major metabolic pathways; and biochemical energy production.

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Classroom

BIOC 432/832	Gene Expression and Replication Crosslisted as <i>BIOS 432, CHEM 432/832</i>	LINK (http://bulletin.unl.edu/courses/BIOC/432)
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Prereqs:
[BIOC 431](http://bulletin.unl.edu/courses/BIOC/431) (<http://bulletin.unl.edu/courses/BIOC/431>)/[831](http://bulletin.unl.edu/courses/BIOC/831)

Credit Hours:	2
Course Format:	Lecture 2

<http://bulletin.unl.edu/courses/BIOC/831>.

Course Delivery: Classroom

Continuation of [BIOC 431 \(http://bulletin.unl.edu/courses/BIOC/431/831\)](http://bulletin.unl.edu/courses/BIOC/431/831) (<http://bulletin.unl.edu/courses/BIOC/831>). Structural and biochemical aspects of DNA replication and gene expression, and biotechnology.

BIOC

433/833

Biochemistry Laboratory

Crosslisted as *BIOS 433/833, CHEM 433/833*

[LINK \(http://bulletin.unl.edu/courses/BIOC/433\)](http://bulletin.unl.edu/courses/BIOC/433)

Prereqs:

[BIOC 431 \(http://bulletin.unl.edu/courses/BIOC/431/831\)](http://bulletin.unl.edu/courses/BIOC/431/831) (<http://bulletin.unl.edu/courses/BIOC/831>) or concurrent enrollment.

Introduction to techniques used in biochemical and biotechnology research, including measurement of pH, spectroscopy, analysis of enzymes, chromatography, fractionation of macromolecules, electrophoresis, and centrifugation.

Credit Hours: 2

Course Format: Lab 4, Lecture 1

Course Delivery: Classroom

BIOC

434/834

Plant Biochemistry

Crosslisted as *BIOS 434/834, CHEM 434/834, AGRO 434/834*

[LINK \(http://bulletin.unl.edu/courses/BIOC/434\)](http://bulletin.unl.edu/courses/BIOC/434)

Prereqs:

[BIOC/BIOS/CHEM 431 \(http://bulletin.unl.edu/courses/CHEM/431/831\)](http://bulletin.unl.edu/courses/CHEM/431/831) (<http://bulletin.unl.edu/courses/CHEM/831>).

Offered every other year beginning spring 2007.

Biochemical metabolism unique to plants. Relationships of topics previously acquired in general biochemistry to biochemical processes unique to plants. Biochemical mechanisms behind physiological processes discussed in plant or crop physiology.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOC

486/886

Advanced Topics in Biophysical Chemistry

Crosslisted as *BIOS 486/886, CHEM 486/886*

[LINK \(http://bulletin.unl.edu/courses/BIOC/486\)](http://bulletin.unl.edu/courses/BIOC/486)

Prereqs:

[CHEM 471 \(http://bulletin.unl.edu/courses/CHEM/471/871\)](http://bulletin.unl.edu/courses/CHEM/471/871) (<http://bulletin.unl.edu/courses/CHEM/871>) or [481 \(http://bulletin.unl.edu/courses/CHEM/481/881\)](http://bulletin.unl.edu/courses/CHEM/481/881) (<http://bulletin.unl.edu/courses/CHEM/881>).

Applications of thermodynamics to biochemical phenomena, optical properties of proteins and polynucleotides, and kinetics of rapid reactions.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOC

836

Physical Basis of Macromolecular Function

Crosslisted as *CHEM 836*

[LINK \(http://bulletin.unl.edu/courses/BIOC/836\)](http://bulletin.unl.edu/courses/BIOC/836)

Introduction to the theory and practice of biophysical characterization of macromolecules. The course will be based on primary research literature, although a supporting text will be used for in depth discussion of the methods.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

BIOC

839

Survey of Biochemistry

Crosslisted as *BIOS 839, CHEM 839*

[LINK \(http://bulletin.unl.edu/courses/BIOC/839\)](http://bulletin.unl.edu/courses/BIOC/839)

Prereqs:
Permission

Credit Hours: 3

Course Format: Lecture 3

Comprehensive survey of biochemistry for incoming graduate students. Topics include those in [BIOC 831](http://bulletin.unl.edu/courses/BIOC/831) (<http://bulletin.unl.edu/courses/BIOC/831>) and [832](http://bulletin.unl.edu/courses/BIOC/832) (<http://bulletin.unl.edu/courses/BIOC/832>), but not all topics discussed in lecture periods. Depth enhanced by assigned readings.

Campus:
Course Delivery: Classroom

BIOC
848
Redox Biochemistry
Crosslisted as *CHEM 848*

[LINK \(http://bulletin.unl.edu/courses/BIOC/848\)](http://bulletin.unl.edu/courses/BIOC/848)

Prereqs:
3 hrs BIOC and 3 hrs inorganic chemistry

Redox (oxidation and reduction)-based biochemical processes (energy generation, oxygen transfer, enzyme catalysis, signaling, gene regulation, and diseases). Recent progress in these areas. Roles of metals in biochemical reactions, metal homeostasis, and biosynthesis of metal cofactors and metal sites. Biochemistry and pathophysiology of redoxactive species and radicals. Antioxidant molecules and enzymes.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

BIOC
869
Chemistry for Secondary School Classrooms
Crosslisted as *BIOS 883, CHEM 869, TEAC 869*

[LINK \(http://bulletin.unl.edu/courses/BIOC/869\)](http://bulletin.unl.edu/courses/BIOC/869)

Credit in this course will not count towards a graduate degree in chemistry or biochemistry or biological sciences. Course taught via World Wide Web. Chemistry content for high school teachers organized according to the National Science Education Standards. Individual course coverage includes: content, integration with other sciences and mathematics, graphing calculators, probe-experiments, simulations, at-home experiments, teaching materials, and industrial applications related to the title description.

- A. Structure and Properties of Matter: Water and Solutions (1 cr)
- B. Structure and Properties of Matter: Periodicity (1 cr)
- D. Structure and Properties of Matter: Bonding and Structure (1 cr)
- E. Structure and Properties of Matter: Carbon Chemistry and Polymers (1 cr)
- J. Structure and Properties of Matter: Gases and the Atmosphere (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1 cr)
- L. Structure and Properties of Matter: Condensed States and Materials Science (1 cr)
- M. Interactions of Matter and Energy (1 cr)
- N. Chemistry of Life Processes: DNA (1 cr)
- P. Chemistry of Life Processes: Energy and Metabolism (1 cr)
- Q. Chemical Reactions: Equations and their Consequences (1 cr)
- R. Chemical Reactions: Acids and Bases (1 cr)
- T. Chemical Reactions: Kinetics (1 cr)
- U. Chemical Reactions: Oxidation, Reduction and Electrochemistry (1 cr)
- V. Equilibrium: Unifying Theme (1 cr)
- W. Conservation of Energy and the Increase in Disorder: Thermodynamics (1 cr)
- Y. Inquiry and the Nature of Science: Analysis and Instrumentation (1 cr)
- Z. Structure of Atoms: Nuclear Chemistry (1 cr)

Credit Hours: 1
Max credits per degree: 12
Campus:
Course Delivery: Classroom

BIOC
992K
Seminar in Biological Chemistry
Crosslisted as *CHEM 992K*

[LINK \(http://bulletin.unl.edu/courses/BIOC/992K\)](http://bulletin.unl.edu/courses/BIOC/992K)

Prereqs:
[BIOC 832](http://bulletin.unl.edu/courses/BIOC/832) (<http://bulletin.unl.edu/courses/BIOC/832>) or *839; and permission

Credit Hours: 1-2
Max credits per degree: 2
Campus:
Course Delivery: Classroom

CHEM
421/821
Analytical Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/421\)](http://bulletin.unl.edu/courses/CHEM/421)

Prereqs:
[CHEM 471 \(http://bulletin.unl.edu/courses/CHEM/471/871\)](http://bulletin.unl.edu/courses/CHEM/471/871)
 [\(http://bulletin.unl.edu/courses/CHEM/871\)](http://bulletin.unl.edu/courses/CHEM/871) or [481](http://bulletin.unl.edu/courses/CHEM/481)
 [\(http://bulletin.unl.edu/courses/CHEM/481/881\)](http://bulletin.unl.edu/courses/CHEM/481/881)
 [\(http://bulletin.unl.edu/courses/CHEM/881\)](http://bulletin.unl.edu/courses/CHEM/881); parallel [CHEM 423](http://bulletin.unl.edu/courses/CHEM/423/823)
 [\(http://bulletin.unl.edu/courses/CHEM/423/823\)](http://bulletin.unl.edu/courses/CHEM/423/823)
 [\(http://bulletin.unl.edu/courses/CHEM/823\)](http://bulletin.unl.edu/courses/CHEM/823).

This course is a prerequisite for: [CHEM 423 \(http://bulletin.unl.edu/courses/CHEM/423\)](http://bulletin.unl.edu/courses/CHEM/423)

Chemical and physical properties applied to quantitative chemical analysis. Emphasis on solution equilibria, stoichiometry, and instrumental theory and techniques.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

CHEM Analytical Chemistry Laboratory

423/823

[LINK \(http://bulletin.unl.edu/courses/CHEM/423\)](http://bulletin.unl.edu/courses/CHEM/423)

Prereqs:
Same as for [CHEM 421 \(http://bulletin.unl.edu/courses/CHEM/421/821\)](http://bulletin.unl.edu/courses/CHEM/421/821)
 [\(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821).

This course is a prerequisite for: [CHEM 421 \(http://bulletin.unl.edu/courses/CHEM/421\)](http://bulletin.unl.edu/courses/CHEM/421)

Lab designed to accompany [CHEM 421](http://bulletin.unl.edu/courses/CHEM/421/821)
 [\(http://bulletin.unl.edu/courses/CHEM/421/821\)](http://bulletin.unl.edu/courses/CHEM/421/821)
 [\(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821). Applications of analytical chemical principles to laboratory problems.

Credit Hours:	2
Course Format:	Lab 6
Course Delivery:	Classroom

CHEM Advanced Organic Preparations

463/863

[LINK \(http://bulletin.unl.edu/courses/CHEM/463\)](http://bulletin.unl.edu/courses/CHEM/463)

Prereqs:
[CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252) or [254](http://bulletin.unl.edu/courses/CHEM/254)
 [\(http://bulletin.unl.edu/courses/CHEM/254\)](http://bulletin.unl.edu/courses/CHEM/254).

For students who wish additional laboratory work in organic chemistry.

Credit Hours:	1-5
Max credits per semester:	5
Course Format:	Lab
Course Delivery:	Classroom

CHEM Physical Chemistry

471/871

[LINK \(http://bulletin.unl.edu/courses/CHEM/471\)](http://bulletin.unl.edu/courses/CHEM/471)

Prereqs:
[CHEM 114 \(http://bulletin.unl.edu/courses/CHEM/114\)](http://bulletin.unl.edu/courses/CHEM/114) and [116](http://bulletin.unl.edu/courses/CHEM/116)
 [\(http://bulletin.unl.edu/courses/CHEM/116\)](http://bulletin.unl.edu/courses/CHEM/116), or [221](http://bulletin.unl.edu/courses/CHEM/221)
 [\(http://bulletin.unl.edu/courses/CHEM/221\)](http://bulletin.unl.edu/courses/CHEM/221), with a grade of 'C' or better; [MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106) and [238](http://bulletin.unl.edu/courses/MATH/238)
 [\(http://bulletin.unl.edu/courses/MATH/238\)](http://bulletin.unl.edu/courses/MATH/238), or [107](http://bulletin.unl.edu/courses/MATH/107)
 [\(http://bulletin.unl.edu/courses/MATH/107\)](http://bulletin.unl.edu/courses/MATH/107); one year college physics.

This course is a prerequisite for: [CHEM 421 \(http://bulletin.unl.edu/courses/CHEM/421\)](http://bulletin.unl.edu/courses/CHEM/421),
[BIOC 486 \(http://bulletin.unl.edu/courses/BIOC/486\)](http://bulletin.unl.edu/courses/BIOC/486)

*Credit may not be earned in both [CHEM 471](http://bulletin.unl.edu/courses/CHEM/471/871)
 [\(http://bulletin.unl.edu/courses/CHEM/471/871\)](http://bulletin.unl.edu/courses/CHEM/471/871)
 [\(http://bulletin.unl.edu/courses/CHEM/871\)](http://bulletin.unl.edu/courses/CHEM/871) and [CHEM 481](http://bulletin.unl.edu/courses/CHEM/481)
 [\(http://bulletin.unl.edu/courses/CHEM/481/881\)](http://bulletin.unl.edu/courses/CHEM/481/881)
 [\(http://bulletin.unl.edu/courses/CHEM/881\)](http://bulletin.unl.edu/courses/CHEM/881).*

Conceptual and mathematical foundations of classical and statistical thermodynamics. Applications of thermodynamics to phase and chemical equilibria. Thermodynamics of solutions of small molecules and of polymers. Biological applications of thermodynamics. Introduction to chemical and biochemical spectroscopy.

Credit Hours:	4
Course Format:	Lecture 3, Recitation 1
Course Delivery:	Classroom

CHEM Physical Chemistry I

[LINK \(http://bulletin.unl.edu/courses/CHEM/481\)](http://bulletin.unl.edu/courses/CHEM/481)

481/881**Prereqs:**

CHEM 114 (<http://bulletin.unl.edu/courses/CHEM/114>) and **116** (<http://bulletin.unl.edu/courses/CHEM/116>) with grades of at least C, or **CHEM 221** (<http://bulletin.unl.edu/courses/CHEM/221>) with grade of at least C; **MATH 208** (<http://bulletin.unl.edu/courses/MATH/208>), **PHYS 212** (<http://bulletin.unl.edu/courses/PHYS/212>) and (recommended) **222**.

This course is a prerequisite for: **PHYS 422** (<http://bulletin.unl.edu/courses/PHYS/422>), **CHEM 482** (<http://bulletin.unl.edu/courses/CHEM/482>), **CHEM 484** (<http://bulletin.unl.edu/courses/CHEM/484>), **CHEM 484A** (<http://bulletin.unl.edu/courses/CHEM/484A>)

*Credit may not be earned in both **CHEM 471** (<http://bulletin.unl.edu/courses/CHEM/471>)/**871** (<http://bulletin.unl.edu/courses/CHEM/871>) and **481** (<http://bulletin.unl.edu/courses/CHEM/481>)/**881** (<http://bulletin.unl.edu/courses/CHEM/881>).*

CHEM 481 (<http://bulletin.unl.edu/courses/CHEM/481>)/**881** (<http://bulletin.unl.edu/courses/CHEM/881>) and **482** (<http://bulletin.unl.edu/courses/CHEM/482>)/**882** (<http://bulletin.unl.edu/courses/CHEM/882>) with accompanying lab **484/884** form a continuous basic course in physical chemistry for students interested in chemistry as a profession. Thermodynamics and statistical mechanics and their application to the study of solids, liquids, gases, solutions, phase equilibria, and chemical equilibria.

Credit Hours:	4
Course Format:	Lecture 3, Recitation 1
Course Delivery:	Classroom

CHEM

Physical Chemistry II[LINK \(http://bulletin.unl.edu/courses/CHEM/482\)](http://bulletin.unl.edu/courses/CHEM/482)**482/882****Prereqs:**

CHEM 481 (<http://bulletin.unl.edu/courses/CHEM/481>)/**881** (<http://bulletin.unl.edu/courses/CHEM/881>).

This course is a prerequisite for: **CHEM 484** (<http://bulletin.unl.edu/courses/CHEM/484>), **CHEM 987A** (<http://bulletin.unl.edu/courses/CHEM/987A>), **CHEM 987B** (<http://bulletin.unl.edu/courses/CHEM/987B>)

*This course should parallel **CHEM 484** (<http://bulletin.unl.edu/courses/CHEM/484>)/**884** (<http://bulletin.unl.edu/courses/CHEM/884>). Continuation of **CHEM 481** (<http://bulletin.unl.edu/courses/CHEM/481>)/**881** (<http://bulletin.unl.edu/courses/CHEM/881>).*

Statistical mechanics and thermodynamics and their applications to the study of solids, liquids, gases, solutions, and chemical equilibria. Introduction to quantum mechanics and its application to problems in atomic and molecular structure and to spectroscopy. Chemical kinetics.

Credit Hours:	4
Course Format:	Lecture 3, Recitation 1
Course Delivery:	Classroom

CHEM

Physical Chemical Measurements[LINK \(http://bulletin.unl.edu/courses/CHEM/484\)](http://bulletin.unl.edu/courses/CHEM/484)**484/884****Prereqs:**

CHEM 481 (<http://bulletin.unl.edu/courses/CHEM/481>)/**881** (<http://bulletin.unl.edu/courses/CHEM/881>). Parallel with **CHEM 482** (<http://bulletin.unl.edu/courses/CHEM/482>)/**882** (<http://bulletin.unl.edu/courses/CHEM/882>).

Credit Hours:	3
Course Format:	Lab 3
Course Delivery:	Classroom

CHEM

Physical Chemical Measurements[LINK \(http://bulletin.unl.edu/courses/CHEM/484A\)](http://bulletin.unl.edu/courses/CHEM/484A)**484A/884A****Prereqs:**

CHEM 481 (<http://bulletin.unl.edu/courses/CHEM/481>)/**881**

Credit Hours:	2
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<http://bulletin.unl.edu/courses/CHEM/881>).

Parallel with *CHEM 482* (<http://bulletin.unl.edu/courses/CHEM/482/882>)
(<http://bulletin.unl.edu/courses/CHEM/882>).

Course Format: Lab 6

Course Delivery: Classroom

CHEM

824

Applied Problems in Analytical Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/824\)](http://bulletin.unl.edu/courses/CHEM/824)

Prereqs:

[CHEM 821 \(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821)

Selection and execution of analytical methods in the solution of typical academic and industrial chemical problems.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CHEM

825A

Ionic Equilibria

[LINK \(http://bulletin.unl.edu/courses/CHEM/825A\)](http://bulletin.unl.edu/courses/CHEM/825A)

Prereqs:

or parallel: [CHEM 821 \(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821) or *824

Survey of theory of ionic equilibrium systems of importance in chemical analysis.

Credit Hours: 1

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

CHEM

825B

Electrochemical Methods

[LINK \(http://bulletin.unl.edu/courses/CHEM/825B\)](http://bulletin.unl.edu/courses/CHEM/825B)

Prereqs:

[CHEM 821 \(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821) or *824

Survey of principles and applications of electroanalytical chemistry.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

CHEM

825D

Mass Spectrometry

[LINK \(http://bulletin.unl.edu/courses/CHEM/825D\)](http://bulletin.unl.edu/courses/CHEM/825D)

Prereqs:

[CHEM 821 \(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821) or *824

Survey of the fundamentals (1 cr) and applications (1 cr) of mass spectrometry.

Credit Hours: 1-2

Max credits per degree: 2

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

CHEM

825E

Data Handling

[LINK \(http://bulletin.unl.edu/courses/CHEM/825E\)](http://bulletin.unl.edu/courses/CHEM/825E)

Prereqs:

or parallel: [CHEM 821 \(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821) or *824

Application of statistical, graphical and numerical methods for the treatment of analytical chemical data.

Credit Hours: 1

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

CHEM

825G

Chromatographic Separations

[LINK \(http://bulletin.unl.edu/courses/CHEM/825G\)](http://bulletin.unl.edu/courses/CHEM/825G)

Prereqs:
[CHEM 821 \(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821) or *824

Survey of principles and applications of modern chromatographic analysis.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

CHEM
825J Optical Methods of Analysis

[LINK \(http://bulletin.unl.edu/courses/CHEM/825J\)](http://bulletin.unl.edu/courses/CHEM/825J)

Prereqs:
[CHEM 821 \(http://bulletin.unl.edu/courses/CHEM/821\)](http://bulletin.unl.edu/courses/CHEM/821) or *824

Survey of principles and analytical application of modern optical spectrometric methods.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

CHEM
835 Chemical Biology

[LINK \(http://bulletin.unl.edu/courses/CHEM/835\)](http://bulletin.unl.edu/courses/CHEM/835)

Prereqs:
[CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252) or [262 \(http://bulletin.unl.edu/courses/CHEM/262\)](http://bulletin.unl.edu/courses/CHEM/262), and [871 \(http://bulletin.unl.edu/courses/CHEM/871\)](http://bulletin.unl.edu/courses/CHEM/871) or [881 \(http://bulletin.unl.edu/courses/CHEM/881\)](http://bulletin.unl.edu/courses/CHEM/881)

Credit toward the degree cannot be earned in both [CHEM 835 \(http://bulletin.unl.edu/courses/CHEM/835\)](http://bulletin.unl.edu/courses/CHEM/835), and [831 \(http://bulletin.unl.edu/courses/CHEM/831\)](http://bulletin.unl.edu/courses/CHEM/831) and/or [832 \(http://bulletin.unl.edu/courses/CHEM/832\)](http://bulletin.unl.edu/courses/CHEM/832) or their equivalents. Use of recent advances in genomics to organize the field of biochemistry as well as an understanding of how biologists, biochemists and chemists use this information to cure diseases.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CHEM
841 Inorganic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/841\)](http://bulletin.unl.edu/courses/CHEM/841)

Prereqs:
[CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252) or [262 \(http://bulletin.unl.edu/courses/CHEM/262\)](http://bulletin.unl.edu/courses/CHEM/262), and [264 \(http://bulletin.unl.edu/courses/CHEM/264\)](http://bulletin.unl.edu/courses/CHEM/264); parallel [CHEM 843 \(http://bulletin.unl.edu/courses/CHEM/843\)](http://bulletin.unl.edu/courses/CHEM/843)

This course is a prerequisite for: [CHEM 843 \(http://bulletin.unl.edu/courses/CHEM/843\)](http://bulletin.unl.edu/courses/CHEM/843), [CHEM 845 \(http://bulletin.unl.edu/courses/CHEM/845\)](http://bulletin.unl.edu/courses/CHEM/845)

[CHEM 841 \(http://bulletin.unl.edu/courses/CHEM/841\)](http://bulletin.unl.edu/courses/CHEM/841) and the accompanying laboratory course, [CHEM 843 \(http://bulletin.unl.edu/courses/CHEM/843\)](http://bulletin.unl.edu/courses/CHEM/843), constitute a basic course in inorganic chemistry. The structure, bonding, properties, and reactions of inorganic compounds with emphasis on the relationships and trends that are embodied in the periodic table of the elements.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CHEM
843 Inorganic Chemistry Laboratory

[LINK \(http://bulletin.unl.edu/courses/CHEM/843\)](http://bulletin.unl.edu/courses/CHEM/843)

Prereqs:
[CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252) or [262 \(http://bulletin.unl.edu/courses/CHEM/262\)](http://bulletin.unl.edu/courses/CHEM/262), and [264 \(http://bulletin.unl.edu/courses/CHEM/264\)](http://bulletin.unl.edu/courses/CHEM/264); parallel: [CHEM 841 \(http://bulletin.unl.edu/courses/CHEM/841\)](http://bulletin.unl.edu/courses/CHEM/841)

This course is a prerequisite for: [CHEM 841 \(http://bulletin.unl.edu/courses/CHEM/841\)](http://bulletin.unl.edu/courses/CHEM/841)

Credit Hours: 2

Campus:

Course Delivery: Classroom

Introduction to typical inorganic chemistry laboratory techniques through the preparation and characterization of inorganic compounds.

CHEM **845** Modern Inorganic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/845\)](http://bulletin.unl.edu/courses/CHEM/845)

Prereqs:
[CHEM 841 \(http://bulletin.unl.edu/courses/CHEM/841\)](http://bulletin.unl.edu/courses/CHEM/841), [843 \(http://bulletin.unl.edu/courses/CHEM/843\)](http://bulletin.unl.edu/courses/CHEM/843), and [882 \(http://bulletin.unl.edu/courses/CHEM/882\)](http://bulletin.unl.edu/courses/CHEM/882) or permission

Topics in inorganic chemistry such as bioinorganics, catalysis, organometallic, materials and solid state chemistry. Theoretical principles and practical applications, and on correlating the physical and chemical properties of the chemical elements and inorganic chemical compounds.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHEM **855** Advanced Organic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/855\)](http://bulletin.unl.edu/courses/CHEM/855)

Prereqs:
[CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252) or [262 \(http://bulletin.unl.edu/courses/CHEM/262\)](http://bulletin.unl.edu/courses/CHEM/262) or equivalent

Survey of modern concepts of structure/bonding, acidity/basicity, stereochemistry, and reaction mechanisms. Introduction to the fundamental tools used to investigate reaction mechanism (transition state theory, elementary Huckel theory, linear free energy relationships, rate laws and kinetic isotope effects). Mechanistic examples emphasize the major classes of organic reactions, particularly concerted, carbanionic and carbocationic. Development of reasoning skills.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHEM **865A** Organic Reactions

[LINK \(http://bulletin.unl.edu/courses/CHEM/865A\)](http://bulletin.unl.edu/courses/CHEM/865A)

Prereqs:
CHEM *855 and permission

Modern reactions and methodology for organic synthesis. Carbon-carbon bond-forming reactions; alkene synthesis; oxidation; reductions; function group interconversion; use of protecting groups; and organometallic reagents.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM **874** Topics in Chemical Pedagogy

Crosslisted as *TEAC 874*

[LINK \(http://bulletin.unl.edu/courses/CHEM/874\)](http://bulletin.unl.edu/courses/CHEM/874)

A maximum combined total of 12 hours from TEAC *869 and/or *874 may be counted toward a masters degree. Credit in this course will not count towards a graduate degree in chemistry. Courses are Web-based. Topical chemistry content for high school teachers organized according to the National Science Education Standards.

- A. Green Chemistry (2-3 cr)
- D. Demonstrations for High School Chemistry (1-3 cr)
- E. Experiments for High School Chemistry (1-3 cr)
- J. Developing a Safety Culture (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1-3 cr)
- L. Addressing Misconceptions (1-3 cr)
- M. Mathematics Integration ([MATH 874M \(http://bulletin.unl.edu/courses/MATH/874M\)](http://bulletin.unl.edu/courses/MATH/874M)) (2-3 cr) May be counted towards the MAT and MScT degrees in mathematics and statistics, not the MA, MS, or PhD.
- N. Inquiry Strategies (1-3 cr)
- P. Chemistry in the Workplace (1-3 cr)
- Y. Graphing Calculator Activities (2-3 cr)

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

CHEM
875

Chemical Pedagogy in the High School Laboratory

[LINK \(http://bulletin.unl.edu/courses/CHEM/875\)](http://bulletin.unl.edu/courses/CHEM/875)

Crosslisted as *TEAC 875*

Credit in this course will not count towards a graduate degree in chemistry. Laboratory-based courses addressing specific issues connected with teaching laboratory work in high school chemistry programs.

- A. Small-scale Experiments (1-3 cr)
- B. Technology Integration (3-6 cr)
- E. Inquiry Experiments (1-3 cr)
- K. At-home Experiments (1-3 cr)
- P. Probe Experiments (1-3 cr)
- T. Traditional Experiments (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CHEM
885

Survey of Modern Physical Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/885\)](http://bulletin.unl.edu/courses/CHEM/885)

A one-semester survey course in modern physical chemistry, covering chemical thermodynamics, chemical kinetics, quantum chemistry, molecular structure and spectroscopy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHEM
898

Special Problems

[LINK \(http://bulletin.unl.edu/courses/CHEM/898\)](http://bulletin.unl.edu/courses/CHEM/898)

Prereqs:
Permission

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

CHEM
898A

Introduction to Graduate Research

[LINK \(http://bulletin.unl.edu/courses/CHEM/898A\)](http://bulletin.unl.edu/courses/CHEM/898A)

Prereqs:
Admission to chemistry graduate program.

Series of lectures and activities designed to prepare for graduate research and graduate studies in chemistry.

Credit Hours:	1-3
Max credits per degree:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

CHEM
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/CHEM/899\)](http://bulletin.unl.edu/courses/CHEM/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

CHEM
932

Proteins

Crosslisted as *BIOS 932, BIOC 932*

[LINK \(http://bulletin.unl.edu/courses/CHEM/932\)](http://bulletin.unl.edu/courses/CHEM/932)

Prereqs:
BIOC/BIOS/CHEM 832 (<http://bulletin.unl.edu/courses/CHEM/832>) or BIOC/BIOS/CHEM *839

Protein structure and function.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	

CHEM

933**Enzymes**Crosslisted as *BIOS 933*, *BIOC 933*[LINK \(http://bulletin.unl.edu/courses/CHEM/933\)](http://bulletin.unl.edu/courses/CHEM/933)**Prereqs:****BIOC/BIOS/CHEM 432** (<http://bulletin.unl.edu/courses/CHEM/432>)/**832** (<http://bulletin.unl.edu/courses/CHEM/832>), or **BIOC/BIOS/CHEM *839**

Kinetics regulation and reaction mechanisms of enzymes.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM

934**Genome Dynamics and Gene Expression**Crosslisted as *BIOS 934*, *BIOC 934*[LINK \(http://bulletin.unl.edu/courses/CHEM/934\)](http://bulletin.unl.edu/courses/CHEM/934)**Prereqs:****BIOC/BIOS/CHEM 832** (<http://bulletin.unl.edu/courses/CHEM/832>) or permission

Detailed examination of dynamic control mechanisms of genome maintenance and gene regulation. Mechanisms of transcription, translation, and replication based on analysis of current and seminal literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CHEM

935**Metabolic Function and Dysfunction**Crosslisted as *BIOS 935*, *BIOC 935*[LINK \(http://bulletin.unl.edu/courses/CHEM/935\)](http://bulletin.unl.edu/courses/CHEM/935)**Prereqs:****BIOC/CHEM/BIOS 432** (<http://bulletin.unl.edu/courses/BIOS/432>)/**832** (<http://bulletin.unl.edu/courses/BIOS/832>) and permission*BIOC/CHEM/BIOS 935* (<http://bulletin.unl.edu/courses/BIOS/935>) is offered even-numbered calendar years.

Current metabolic research at the bioenergetic, metabolomic, and molecular level. The normal metabolic processes that go awry in cancer, obesity, and oxidative stress.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CHEM

937A**Advanced Topics in Plant Biochemistry: Photosynthesis and Related Processes**[LINK \(http://bulletin.unl.edu/courses/CHEM/937A\)](http://bulletin.unl.edu/courses/CHEM/937A)**Prereqs:**

Permission

Offered every fourth semester. For course description, see **BIOC 937A** (<http://bulletin.unl.edu/courses/BIOC/937A>).

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CHEM

939**Photobiochemistry**[LINK \(http://bulletin.unl.edu/courses/CHEM/939\)](http://bulletin.unl.edu/courses/CHEM/939)**Prereqs:**One year **BIOC** and **PHYS**For course description, see **BIOC 939** (<http://bulletin.unl.edu/courses/BIOC/939>).

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM

940**Seminar in Inorganic Chemistry**[LINK \(http://bulletin.unl.edu/courses/CHEM/940\)](http://bulletin.unl.edu/courses/CHEM/940)

Credit Hours: 1

Campus:

Course Delivery: Classroom

CHEM

943

Solid-State Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/943\)](http://bulletin.unl.edu/courses/CHEM/943)

Prereqs:
CHEM *845 and *885

Advanced course dealing with the structure, bonding, properties, and reactions of inorganic solid materials.

Credit Hours: 2

Campus:

Course Delivery: Classroom

CHEM

945

Advanced Inorganic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/945\)](http://bulletin.unl.edu/courses/CHEM/945)

Prereqs:
CHEM *845

Chemistry of the metallic compounds.

Credit Hours: 2

Campus:

Course Delivery: Classroom

CHEM

946

Organometallic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/946\)](http://bulletin.unl.edu/courses/CHEM/946)

The chemistry of compounds that occupy the boundary between inorganic and organic chemistry.

Credit Hours: 1-6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

CHEM

952

Stereochemistry of Organic Compounds

[LINK \(http://bulletin.unl.edu/courses/CHEM/952\)](http://bulletin.unl.edu/courses/CHEM/952)

Prereqs:
CHEM *855

Types of stereoisomerism in organic compounds. Steric strain and certain other steric effects in reactions of organic substances.

Credit Hours: 2-4

Max credits per degree: 4

Campus:

Course Delivery: Classroom

CHEM

953

Organic Reaction Mechanisms

[LINK \(http://bulletin.unl.edu/courses/CHEM/953\)](http://bulletin.unl.edu/courses/CHEM/953)

Prereqs:
CHEM *855

Classes of reaction mechanisms and the methods whereby mechanisms may be studied. Kinetic and equilibrium studies; isotopic labeling; activation parameters; linear free energy relationships; stereochemistry; NMR and other spectroscopic methods as applied to reaction mechanisms, including direct observation of reactive intermediates; interpreting the results of semi-empirical calculations of reaction pathways; and studies of acid- and base-catalysis mechanisms.

Credit Hours: 2-4

Max credits per degree: 4

Campus:

Course Delivery: Classroom

CHEM

954

Physical Organic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/954\)](http://bulletin.unl.edu/courses/CHEM/954)

Prereqs:
CHEM *855

Elementary aspects of molecular orbital (MO) theory. Selected concepts in molecular symmetry and topology. Applications of MO calculations to reaction mechanisms and elucidation of electronic structure for organic molecules: calculations vs. experiment. Introduction to selected interdisciplinary topics.

Credit Hours:	2-4
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

CHEM

963 Metals in Organic Synthesis

[LINK \(http://bulletin.unl.edu/courses/CHEM/963\)](http://bulletin.unl.edu/courses/CHEM/963)

Prereqs:
CHEM 865 (<http://bulletin.unl.edu/courses/CHEM/865>)

Use of organometallic reagents and catalysts in organic synthesis.

Credit Hours:	2-4
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

CHEM

964 Bioorganic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/964\)](http://bulletin.unl.edu/courses/CHEM/964)

Prereqs:
CHEM *855

Organic chemistry of biological systems with particular emphasis on the molecular mechanisms of action of enzymes and their associated cofactors.

Credit Hours:	2-4
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

CHEM

965 Advanced Synthetic Strategy

[LINK \(http://bulletin.unl.edu/courses/CHEM/965\)](http://bulletin.unl.edu/courses/CHEM/965)

Prereqs:
CHEM 865 (<http://bulletin.unl.edu/courses/CHEM/865>)

Strategy and execution of organic synthesis. Retrosynthetic analysis; total synthesis of natural and unnatural products; methods for asymmetric synthesis; and applications of pericyclic reactions.

Credit Hours:	2-4
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

CHEM

972 Quantum Chemistry I

[LINK \(http://bulletin.unl.edu/courses/CHEM/972\)](http://bulletin.unl.edu/courses/CHEM/972)

Prereqs:
CHEM *885

Basic principles of quantum mechanics applied to problems in molecular structure and chemical bonding.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHEM

982 Chemical Thermodynamics

[LINK \(http://bulletin.unl.edu/courses/CHEM/982\)](http://bulletin.unl.edu/courses/CHEM/982)

Prereqs:
CHEM *885

This course is a prerequisite for: [CHME 825 \(http://bulletin.unl.edu/courses/CHME/825\)](http://bulletin.unl.edu/courses/CHME/825)

Principles of thermodynamics, with applications to chemical systems and processes, and illustrations from current literature.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHEM

983

Statistical Thermodynamics

LINK (<http://bulletin.unl.edu/courses/CHEM/983>)

Prereqs:
CHEM *885 or 982

Application of equilibrium statistical mechanics to problems of chemical interest. Calculation of thermodynamic functions from molecular structure data. Molecular theories of gases, liquids, and solutions.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

CHEM

984

Chemical Kinetics

LINK (<http://bulletin.unl.edu/courses/CHEM/984>)

Prereqs:
CHEM *885 or 982

Concepts and equations; successive, competing, and reversible reactions; equilibrium, collision, and activated-complex theories; reaction mechanism; heterogeneous reactions; current literature.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

CHEM

987A

Molecular Spectroscopy

LINK (<http://bulletin.unl.edu/courses/CHEM/987A>)

Prereqs:
CHEM 482 (<http://bulletin.unl.edu/courses/CHEM/482/882>) (<http://bulletin.unl.edu/courses/CHEM/882>) or *885 or 972; and permission.

A quantitative treatment of the principal methods of electronic, optical, and magnetic resonance spectroscopy.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM

987B

Scattering

LINK (<http://bulletin.unl.edu/courses/CHEM/987B>)

Prereqs:
CHEM 482 (<http://bulletin.unl.edu/courses/CHEM/482/882>) (<http://bulletin.unl.edu/courses/CHEM/882>) or *885 or 972; and permission.

A quantitative treatment of the principal methods of light, electron and neutron scattering.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

CHEM

990

Seminar in Chemistry

LINK (<http://bulletin.unl.edu/courses/CHEM/990>)

CHEM 990 (<http://bulletin.unl.edu/courses/CHEM/990>) consists of monthly lectures presented by guest speakers from other colleges and universities, the government, and industry. Registration in CHEM 990 (<http://bulletin.unl.edu/courses/CHEM/990>) is required of all full-time CHEM graduate students. Current topics of chemical interest.

Credit Hours:	1-5
Max credits per degree:	5
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

CHEM

991A

Selected Topics in Analytical Chemistry

LINK (<http://bulletin.unl.edu/courses/CHEM/991A>)

Prereqs:
CHEM 821 (<http://bulletin.unl.edu/courses/CHEM/821>) or *824, or parallel

Credit Hours:	1-6
Max credits per degree:	6

Campus:	
Course Delivery:	Classroom

CHEM
991B Special Topics in Inorganic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/991B\)](http://bulletin.unl.edu/courses/CHEM/991B)

Prereqs:
CHEM *845 and permission

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CHEM
991E Special Topics in Organic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/991E\)](http://bulletin.unl.edu/courses/CHEM/991E)

Prereqs:
CHEM *855

Topics of special interest in modern organic chemistry.

Credit Hours:	2-4
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

CHEM
991J Special Topics in Physical Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/991J\)](http://bulletin.unl.edu/courses/CHEM/991J)

Prereqs:
CHEM 881 (<http://bulletin.unl.edu/courses/CHEM/881>) and 882 (<http://bulletin.unl.edu/courses/CHEM/882>), or *885

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CHEM
992A Seminar in Analytical Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/992A\)](http://bulletin.unl.edu/courses/CHEM/992A)

Credit Hours:	1-5
Max credits per degree:	5
Campus:	
Course Delivery:	Classroom

CHEM
992E Seminar on Current Literature of Organic Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/992E\)](http://bulletin.unl.edu/courses/CHEM/992E)

Weekly seminar summarizing recently published developments in organic chemistry.

Credit Hours:	1-5
Max credits per degree:	5
Campus:	
Course Delivery:	Classroom

CHEM
992J Seminar in Physical Chemistry

[LINK \(http://bulletin.unl.edu/courses/CHEM/992J\)](http://bulletin.unl.edu/courses/CHEM/992J)

Prereqs:
CHEM *885

Credit Hours:	1-5
Max credits per degree:	5
Campus:	

CHEM
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/CHEM/999\)](http://bulletin.unl.edu/courses/CHEM/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Chemistry) .
(<http://www.unl.edu/gradstudies/prospective/programs/Chemistry>)

Department Chair: James M. Takacs, Ph.D.

Graduate Committee: Professors David Hage (Chair), Jian Zhang (inorganic), Eric Dodds (analytical), Larry Parkhurst (physical), Andrzej Rajca (organic), Robert Powers (ex officio Graduate Admissions), James Takacs (ex officio Departmental Chair)

Graduate students may work towards the PhD or MS degree. Graduate courses and research are offered in five divisions of the department: analytical, biochemistry, inorganic, organic, and physical chemistry.

To be in good standing within the department and to engage in research leading to advanced degrees, satisfactory progress must be made in the areas of grade point average, cumulative examinations, research performance and teaching performance. Students in good standing may continue to pursue PhD or MS degrees.

To be admitted to candidacy for advanced degrees students must pass a requisite number of cumulative examinations which are given monthly during the academic year. The student has the option of taking each examination in any of the five divisions. Students must commence taking the examinations no later than the third semester of residence.

Masters Degree.

To fulfill the requirements for Option I, candidates must: a) maintain a sufficiently high GPA, b) pass the required cumulative examinations, and c) pass an oral examination covering their area of preparation and thesis research. Students must specifically apply to the Graduate College for admission to the Option II masters degree before being admitted to the Graduate College. In addition, the student must obtain special permission from the Graduate Committee to work towards this degree option.

Doctor of Philosophy Degree.

To fulfill the requirements for the PhD degree the candidate must: a) maintain a sufficiently high GPA; b) pass the required cumulative examinations; c) pass oral examinations on his/her dissertation research and on an original research proposal; d) present a dissertation which contains significant results of an original investigation under the direction of a member of the department. Qualified students may progress directly toward the PhD degree without obtaining a masters degree.

Specific details of the advanced degree program may be obtained from the departmental Graduate Committee.

Specialization available:

Environmental Studies (MS and PhD)

Chemistry faculty are also active in the toxicology major (MS and PhD) which is offered jointly with UNMC.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Chemistry).
(<http://www.unl.edu/gradstudies/prospective/programs/Chemistry>)

Retrieved from "<http://bulletin.unl.edu/graduate/Chemistry> (<http://bulletin.unl.edu/graduate/Chemistry>)"
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Child, Youth and Family Studies

[0](#)

Courses for CYAF (CYAF)

ALEC

Supervisory Leadership[LINK \(http://bulletin.unl.edu/courses/ALEC/407\)](http://bulletin.unl.edu/courses/ALEC/407)**407/807**Crosslisted as *CYAF 807***Prereqs:****ALEC 302** (<http://bulletin.unl.edu/courses/ALEC/302>).

Knowledge and theoretical basis for practicing supervisors in a changing workplace where supervisors have increasing responsibilities due to the flattening or organizational structures, solving supervisory challenges in organizing and planning, problem solving and decision making, performance appraisal and leading a diverse workforce.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CYAF

Student Teaching Seminar in Family and Consumer Sciences[LINK \(http://bulletin.unl.edu/courses/CYAF/403\)](http://bulletin.unl.edu/courses/CYAF/403)**403/803****Prereqs:****Parallel CYAF 497J** (<http://bulletin.unl.edu/courses/CYAF/497J>)/**897I** (<http://bulletin.unl.edu/courses/CYAF/897I>).

Analysis of school programs with attention to: teacher certification in Family and Consumer Sciences; teacher and student rights and responsibilities; proper conduct of teachers; selected legal aspects of education; methods of communicating with parents and community members; current issues which impact education; and reflection and discussion of student teaching experiences. Reinforcement of learning theories, teaching principles, management, and best practices.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

CYAF

Addictions and Families[LINK \(http://bulletin.unl.edu/courses/CYAF/446\)](http://bulletin.unl.edu/courses/CYAF/446)**446/846**

Introduction to addictions from a family systems perspective: theories; behavioral patterns; physiological, psychological and social impacts on individuals and the family; and implications for interventions and treatment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CYAF

Working with GLBT Youth in Professional Contexts[LINK \(http://bulletin.unl.edu/courses/CYAF/447\)](http://bulletin.unl.edu/courses/CYAF/447)**447/847**Crosslisted as *WMNS 447/847*

To introduce contextual considerations and research-informed guidelines for working with Gay, Lesbian, Bisexual, and Transgender youth in professional settings such as educational, mental health, medical, and community outreach. The systemic context of GLBT youth, including developmental transitions, unique stressors, peer relationships, and familial environments, will be explored. Ways to help GLBT youth thrive will be emphasized.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CYAF

Learning and Teaching Principles and Practices in Family and Consumer Sciences[LINK \(http://bulletin.unl.edu/courses/CYAF/451\)](http://bulletin.unl.edu/courses/CYAF/451)**451/851****Prereqs:**

Admission to the Family and Consumer Sciences Secondary Teacher Education Program; completion of 80% of subject area coursework with a 2.5 GPA or better; parallel [CYAF 297J](http://bulletin.unl.edu/courses/CYAF/297J) (<http://bulletin.unl.edu/courses/CYAF/297J>) (1 cr) or [CYAF 894J](http://bulletin.unl.edu/courses/CYAF/894J) (<http://bulletin.unl.edu/courses/CYAF/894J>) (1cr).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

This course is a prerequisite for: [CYAF 452](http://bulletin.unl.edu/courses/CYAF/452) (<http://bulletin.unl.edu/courses/CYAF/452>)

Theoretical issues in the area of teaching and learning as applied in Family and Consumer Sciences. Development of middle and secondary education

curriculum in Family and Consumer Sciences using student-centered, interactive methods of instruction.

CYAF

452/852

Curriculum Principles and Practices in Family and Consumer Sciences [LINK \(http://bulletin.unl.edu/courses/CYAF/452\)](http://bulletin.unl.edu/courses/CYAF/452)

Prereqs:

Admission to the Family and Consumer Sciences Secondary Teacher Education Program; completion of 80% of subject area course work with a 2.5 GPA or better; [CYAF 451](http://bulletin.unl.edu/courses/CYAF/451)

(<http://bulletin.unl.edu/courses/CYAF/451/851>

(<http://bulletin.unl.edu/courses/CYAF/851>); parallel [CYAF 397](http://bulletin.unl.edu/courses/CYAF/397)

(<http://bulletin.unl.edu/courses/CYAF/397>) (1 cr) or [CYAF 894](http://bulletin.unl.edu/courses/CYAF/894)

(<http://bulletin.unl.edu/courses/CYAF/894>) (1 cr).

Practical issues in the area of teaching and learning as applied to Family and Consumer Sciences. Develop teaching and/or learning plans for teaching Family and Consumer Sciences. Analyze classroom management practices and develop plans for assessment.

Credit Hours:	4
Course Format:	Lecture 3
Course Delivery:	Classroom

CYAF

458/858

Family Stress and Crisis, Coping and Recovery [LINK \(http://bulletin.unl.edu/courses/CYAF/458\)](http://bulletin.unl.edu/courses/CYAF/458)

Prereqs:

Junior standing.

CYAF 458 (<http://bulletin.unl.edu/courses/CYAF/458>) is 'Letter grade only'.

Normative and non-normative family stressors (e.g. violence, economic conditions, war and political conflict, natural disasters) and how they affect family functioning. Family stress theories are used to understand crisis events and how families can cope and recover.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CYAF

460/860

Human Dimensions of Sustainability [LINK \(http://bulletin.unl.edu/courses/CYAF/460\)](http://bulletin.unl.edu/courses/CYAF/460)

Examination of the interdependence of human, ecological, economic sustainability and ways to lead a more sustainable life.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CYAF

474/874

Assessment in Early Childhood [LINK \(http://bulletin.unl.edu/courses/CYAF/474\)](http://bulletin.unl.edu/courses/CYAF/474)

Prereqs:

12 hrs family and consumer science, or related social sciences including

[CYAF 270 \(<http://bulletin.unl.edu/courses/CYAF/270>\) and 270L](http://bulletin.unl.edu/courses/CYAF/270)

(<http://bulletin.unl.edu/courses/CYAF/270L>).

Selection, use, and interpretation of assessment instruments for understanding the developmental level of children from birth through age eight. Assessment of reasoning and thinking processes, concept formation, and social cognition.

Credit Hours:	3
Course Delivery:	Classroom

CYAF

476/876

Cognitive Processes in Children [LINK \(http://bulletin.unl.edu/courses/CYAF/476\)](http://bulletin.unl.edu/courses/CYAF/476)

Prereqs:

12 hrs CYAF and/or related social sciences including [CYAF 270](http://bulletin.unl.edu/courses/CYAF/270)

(<http://bulletin.unl.edu/courses/CYAF/270>), [270L](http://bulletin.unl.edu/courses/CYAF/270L)

Credit Hours:	3
Course Format:	Lecture 3

<http://bulletin.unl.edu/courses/CYAF/270L>.

Course Delivery: Classroom

Nature and development of reasoning and thinking processes and concept formation in children. Contribution of Piaget and others in providing new insights. Implications of these for teachers, parents, and others working with young children.

CYAF
477/877

Administration of Early Childhood Programs

[LINK \(http://bulletin.unl.edu/courses/CYAF/477\)](http://bulletin.unl.edu/courses/CYAF/477)

Prereqs:
12 hrs family and consumer sciences including [CYAF 270](http://bulletin.unl.edu/courses/CYAF/270)
(<http://bulletin.unl.edu/courses/CYAF/270>).

Credit Hours: 3
Course Delivery: Classroom

Administration of early childhood programs.

CYAF
488/888

Child and Family Policy

[LINK \(http://bulletin.unl.edu/courses/CYAF/488\)](http://bulletin.unl.edu/courses/CYAF/488)

Prereqs:
Junior standing.

Credit Hours: 3
Course Format: Lecture
Course Delivery: Classroom

Analysis of child and family policies, including what is family policy, how policy is made and implemented, how values and goals affect policy and future directions for child and family policies in America and in other countries.

CYAF
490/890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/CYAF/490\)](http://bulletin.unl.edu/courses/CYAF/490)

Special topics related to child, youth, and family studies. Topics vary.
A. Early Childhood (1–3 cr, max 3) Lec.; D. Family Science (1–3 cr, max 3) Lec.; J. Family and Consumer Science Education (1–3 cr, max 3) Lec.; Y. Youth Development (1–3 cr, max 3) Lec.

Credit Hours: 1–3
Max credits per degree: 12
Course Format: Lecture
Course Delivery: Classroom

CYAF
493/893

Special Topics in Contemporary Family Issues

[LINK \(http://bulletin.unl.edu/courses/CYAF/493\)](http://bulletin.unl.edu/courses/CYAF/493)

Current issues such as debt management, gender and family, low-income families, retirement planning, work and family, mothering, fathering, housing. Topics vary.

Credit Hours: 1
Max credits per degree: 18
Course Format: Lecture
Campus: UNO
Course Delivery: Classroom

CYAF
495/895

Special Topics in Family and Cultural Diversity

[LINK \(http://bulletin.unl.edu/courses/CYAF/495\)](http://bulletin.unl.edu/courses/CYAF/495)

Current topics related to diverse populations, e.g., religion, sexual orientation, ethnicity. Topics vary.

Credit Hours: 3
Max credits per semester: 18
Course Format: Lecture
Campus: UNO
Course Delivery: Classroom

CYAF

Advanced Independent Study[LINK \(http://bulletin.unl.edu/courses/CYAF/496\)](http://bulletin.unl.edu/courses/CYAF/496)**496/896****Prereqs:****12 hrs CYAF and/or related social sciences.**

CYAF 496 (<http://bulletin.unl.edu/courses/CYAF/496>)/896 (<http://bulletin.unl.edu/courses/CYAF/896>) requires a contract and the contract is to be completed before registering for the course. Work in [CYAF 496](http://bulletin.unl.edu/courses/CYAF/496) (<http://bulletin.unl.edu/courses/CYAF/496>)/896 (<http://bulletin.unl.edu/courses/CYAF/896>) is supervised and evaluated by a CYAF faculty member.

Individual projects in research, literature review, or creative production may or may not be an extension of course work.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Independent Study
Campus:	UNO
Course Delivery:	Classroom

CYAF

Community Internships in Child, Youth and Family Studies[LINK \(http://bulletin.unl.edu/courses/CYAF/497D\)](http://bulletin.unl.edu/courses/CYAF/497D)**497D/897D****Prereqs:****Junior standing; 12 hrs FACS or other social sciences.**

Fieldwork in agencies serving children, youth, families and communities.

Credit Hours:	3-6
Max credits per degree:	6
Course Format:	Field
Campus:	UNO
Course Delivery:	Classroom
ACE Outcomes:	10?

CYAF

Student Teaching in an Infant/Toddler Program[LINK \(http://bulletin.unl.edu/courses/CYAF/497I\)](http://bulletin.unl.edu/courses/CYAF/497I)**497I/897I****Prereqs:****[CYAF 497A \(http://bulletin.unl.edu/courses/CYAF/497A\)](http://bulletin.unl.edu/courses/CYAF/497A).**

Pass/No Pass Only.

Integrated developmental theories and research evidence into the planning, implementation, and evaluation of individual and group experiences for children in an infant and toddler program.

Credit Hours:	3-6
Max credits per degree:	6
Course Format:	Field
Course Delivery:	Classroom

CYAF

Student Teaching in Family and Consumer Sciences[LINK \(http://bulletin.unl.edu/courses/CYAF/497J\)](http://bulletin.unl.edu/courses/CYAF/497J)**497J/897J****Prereqs:****Admission by application; completion of all required methods courses and practica with minimum grade of 'C+' (2.33) in each of these courses.**

This course is a prerequisite for: [CYAF 403 \(http://bulletin.unl.edu/courses/CYAF/403\)](http://bulletin.unl.edu/courses/CYAF/403)

CYAF 497J (<http://bulletin.unl.edu/courses/CYAF/497J>)/897J (<http://bulletin.unl.edu/courses/CYAF/897J>) requires one middle-level and one high school experience. [CYAF 497I](http://bulletin.unl.edu/courses/CYAF/497I) (<http://bulletin.unl.edu/courses/CYAF/497I>) is 'Pass/No Pass only'.

Supervised teaching experience in schools.

Credit Hours:	10
Course Format:	Field 40
Course Delivery:	Classroom

CYAF

Family and Consumer Sciences Methods[LINK \(http://bulletin.unl.edu/courses/CYAF/804A\)](http://bulletin.unl.edu/courses/CYAF/804A)**804A**

Prereqs:
Admission to CYAF degree program and permission

Distance education course delivered by Central Washington State University.

The analysis and development of curriculum and methods of teaching Family and Consumer Sciences (FCS) in the context of the National Standards for FCS students, the National Standards for teachers of FCS and the standards for the state in which the candidate will teach. Learners and the learning environment; program leadership; beginning instructional strategies; Family, Career, and Community Leaders of America (FCCLA); curriculum development; integration of technology in the FCS classroom; and assessment.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF
804B **Family and Consumer Sciences Methods II**

[LINK \(http://bulletin.unl.edu/courses/CYAF/804B\)](http://bulletin.unl.edu/courses/CYAF/804B)

Prereqs:
Admission to CYAF graduate program and permission.

Distance education course delivered by Texas Tech University.

Development of curriculum and methods of teaching Family and Consumer Sciences (FCS) in the context of the National Standards for FCS students, the National Standards for teachers of FCS and the standards for the state in which the candidate will teach. Learners and the learning environment; program leadership; beginning instructional strategies; Family, Career, and Community Leaders of America (FCCLA); curriculum development; integration of technology in the FCS classroom and assessment.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF
808 **Occupational Programs in Family and Consumer Sciences**

[LINK \(http://bulletin.unl.edu/courses/CYAF/808\)](http://bulletin.unl.edu/courses/CYAF/808)

Prereqs:
Admission to CYAF graduate program

Distance education course delivered by Iowa State University.

Planning and implementing occupational Family and Consumer Sciences programs in career and technical education. Cooperative education, career pathways, and work-based education.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF
813B **Internship: Selected Experiences**

[LINK \(http://bulletin.unl.edu/courses/CYAF/813B\)](http://bulletin.unl.edu/courses/CYAF/813B)

Prereqs:
Permission

Pass/No Pass only.

Actual and simulated experiences in working with persons through human resources and family sciences in special focused areas of student's choice, e.g., adult education, career education, post-secondary education, special needs programs, consumer affairs.

Credit Hours:	3-6
Course Delivery:	Classroom

CYAF
814 **Evaluation in Career and Technical Education**

Crosslisted as *TEAC 814*

[LINK \(http://bulletin.unl.edu/courses/CYAF/814\)](http://bulletin.unl.edu/courses/CYAF/814)

Two aspects of evaluation in the classroom: 1) selection and use of evaluation in assessing learning, and 2) consideration of conceptual and methodological issues in conducting evaluation to determine and account for the effectiveness of programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
816

Educational Programming

[LINK \(http://bulletin.unl.edu/courses/CYAF/816\)](http://bulletin.unl.edu/courses/CYAF/816)

Prereqs:
Permission

Not open to human resources and family science education majors in certification track. Planning and implementing developmentally appropriate educational experiences for a variety of audiences in non-formal settings.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
817

Critical Issues for the Beginning Teacher

[LINK \(http://bulletin.unl.edu/courses/CYAF/817\)](http://bulletin.unl.edu/courses/CYAF/817)

Examines issues faced by beginning or returning teachers. Possible issues are classroom management, planning, selecting resources, and other critical issues to the new teacher. The theory and its application to the students' educational setting discussed for each issue. Includes how teachers can mentor and support one another as a collaborative group.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

CYAF
818

History and Philosophy of Family and Consumer Science and Career and Technical Education

[LINK \(http://bulletin.unl.edu/courses/CYAF/818\)](http://bulletin.unl.edu/courses/CYAF/818)

Prereqs:
Admission to CYAF degree program and permission

Distance education course delivered by University of Nebraska-Lincoln.

History, mission, philosophy and development of Family and Consumer Sciences (CYAF) and career and technical education. Societal context for families and communities. Impact of selected legislation on family and consumer sciences programs.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF
820

Family Economics

[LINK \(http://bulletin.unl.edu/courses/CYAF/820\)](http://bulletin.unl.edu/courses/CYAF/820)

Prereqs:
Admission to CYAF graduate program or permission

Distance education course delivered by South Dakota State University.

Major issues relative to the economics of families including household production; human capital development and the economics of crises; and public policy and family life cycle spending, saving and borrowing. New and emerging issues and the role of ethics in the field of family economics. A theoretical and research perspective used to illuminate concepts.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
821

Insurance Planning for Families

[LINK \(http://bulletin.unl.edu/courses/CYAF/821\)](http://bulletin.unl.edu/courses/CYAF/821)

Prereqs:
Admission to CYAF graduate program or permission

Risk management concepts, ethical considerations, tools, and strategies for individuals and families. Life insurance; property and casualty insurance; liability insurance; accident, disability, health, and long-term care insurance; and, government-subsidized programs. Case studies provide experience in selecting appropriate insurance products.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

Financial Counseling

[LINK \(http://bulletin.unl.edu/courses/CYAF/822\)](http://bulletin.unl.edu/courses/CYAF/822)

822**Prereqs:**
Admission to CYAF graduate program or permission*Distance education course delivered by North Dakota State University.*

Theory and research regarding the interactive process between clients and practitioner, including communication techniques, motivation and esteem building, the counseling environment, ethics, and methods of data intake verification and analysis. Legal issues, compensation, uses of technology to identify resources, information management, and current or emerging issues.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

823**Estate Planning for Families**[LINK \(http://bulletin.unl.edu/courses/CYAF/823\)](http://bulletin.unl.edu/courses/CYAF/823)**Prereqs:**
Admission to CYAF graduate program or permission*Distance education course delivered by Montana State University.*

Fundamentals of the estate planning process, including estate settlement, estate and gift taxes, property ownership and transfer, and powers of appointment. Tools and techniques used in implementing an effective estate plan, ethical considerations, and new and emerging issues in the field. Case studies provide experience.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

824**Fundamentals of Financial Planning**[LINK \(http://bulletin.unl.edu/courses/CYAF/824\)](http://bulletin.unl.edu/courses/CYAF/824)**Prereqs:**
Admission to CYAF graduate program or permission*Distance education course delivered by Kansas State University.*

Issues and concepts related to the overall financial planning process and establishing client-planner relationships. Services provided, documentation required, and client-CFP licensee relationships. Competencies related to gathering of client data, determining goals and expectations, and assessing the client's financial status. Emerging issues and the role of ethics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

825**Reading in the Content Area**[LINK \(http://bulletin.unl.edu/courses/CYAF/825\)](http://bulletin.unl.edu/courses/CYAF/825)**Prereqs:**
Admission to CYAF graduate program

Basic reading and writing process relating to content literacy including schema theory, comprehension, and second language acquisition. The contribution of content literacy to content material and positive learning environments. Use of a variety of materials including textbooks, literature, Internet resources and media in the content classroom. Assisting diverse students in the use of reading, writing and vocabulary strategies to learn content material.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF

826**Military Personal Financial Readiness**[LINK \(http://bulletin.unl.edu/courses/CYAF/826\)](http://bulletin.unl.edu/courses/CYAF/826)*Distance education course delivered by Kansas State University.*

An overview of the topics relevant to the financial planning process including: Unique needs, terminology, benefits, and resources that impact

Credit Hours:	3
Course Format:	Lecture 3

military service members and their families. Status of service member; financial readiness; financial management; recordkeeping; cash flow management; tax management; retirement management; estate management; and special topics management; risk management; credit and debt management; savings, education planning, and investment.

Campus:	
Course Delivery:	Classroom

CYAF **827** Lifespan Development

[LINK \(http://bulletin.unl.edu/courses/CYAF/827\)](http://bulletin.unl.edu/courses/CYAF/827)

Prereqs:
Admission to CYAF graduate program or permission.

CYAF 827 (http://bulletin.unl.edu/courses/CYAF/827) is open to students in the Military Academic Advancement Program.

This course covers the human development including the cognitive, social-emotional, motor, language, and moral domains from both a lifespan and a bio-ecological perspective.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF **828** Retirement Planning, Employee Benefits and the Family

[LINK \(http://bulletin.unl.edu/courses/CYAF/828\)](http://bulletin.unl.edu/courses/CYAF/828)

Prereqs:
Admission to CYAF graduate program or permission

Micro and macro considerations in retirement planning for individuals and families. Various types of retirement plans, ethical consideration in providing retirement planning services, assessing and forecasting financial needs, integration of retirement plans with government benefits, and current research and theory. Case studies provide experience.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF **829** Leadership, Administration, & Management in Community Programs

[LINK \(http://bulletin.unl.edu/courses/CYAF/829\)](http://bulletin.unl.edu/courses/CYAF/829)

Prereqs:
Admission to CYAF graduate program or permission.

CYAF 829 (http://bulletin.unl.edu/courses/CYAF/829) is open to students in the Military Academic Advancement Program.

This course serves as an overview of management and leadership concepts related to the operational and administrative competencies necessary in effective community-based family and youth organizations and agencies. It is designed to provide students with foundational skills and knowledge to manage day-to-day functions related to organizational systems such as human resource management, financial management, risk management, strategic planning, governance and advisory structures, and marketing.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF **830** Practicum in Infant Development

[LINK \(http://bulletin.unl.edu/courses/CYAF/830\)](http://bulletin.unl.edu/courses/CYAF/830)

Current literature related to prenatal development, birth, and infancy. Observation and interaction with infants and their parents in the laboratory.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

CYAF **831** Immigrant Families and Life Stories

[LINK \(http://bulletin.unl.edu/courses/CYAF/831\)](http://bulletin.unl.edu/courses/CYAF/831)

History, culture, and experiences of immigrant and transnational families. Examination of the current state of global immigrant families, future trends, and implications for family services and policy.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Web

CYAF

833

Children, Families, Communities and the Natural Environment [LINK \(http://bulletin.unl.edu/courses/CYAF/833\)](http://bulletin.unl.edu/courses/CYAF/833)

Examine interconnections among children, families, communities and the natural environment, with implications for sustainability and programming.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Web

CYAF

834

Marriage and Committed Relationships from a Worldwide Perspective [LINK \(http://bulletin.unl.edu/courses/CYAF/834\)](http://bulletin.unl.edu/courses/CYAF/834)

Examination of the complexities of marital and committed relationships from both global and developmental perspectives and through Ecological Systems and Family Systems theoretical lenses.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Web

CYAF

835

Professional Practices in Financial Planning [LINK \(http://bulletin.unl.edu/courses/CYAF/835\)](http://bulletin.unl.edu/courses/CYAF/835)

Prereqs:
Admission to CYAF graduate program or permission

Distance education course delivered by Kansas State University.

Challenges of managing financial planning practices: business valuation, personnel, marketing, client services, ethics and technical applications. Case study analysis, relying on a theoretical and applied approach, will provide practical exposure to management issues. Emphasis on current research findings.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CYAF

836

Financial Planning Case Studies [LINK \(http://bulletin.unl.edu/courses/CYAF/836\)](http://bulletin.unl.edu/courses/CYAF/836)

Prereqs:
Completion of all courses toward the Family Financial Planning specialization or permission

Distance education course delivered by Kansas State University.

Capstone course integrating both theoretical and applied concepts, including research findings introduced in all other courses. Students develop written financial plans based on comprehensive cases, presented to a panel of practitioners.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CYAF

837

Families Across the Life Course [LINK \(http://bulletin.unl.edu/courses/CYAF/837\)](http://bulletin.unl.edu/courses/CYAF/837)

Exploration of family interactions and individual development across the life span and the cultural, political, and social factors that impact development globally.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Web

CYAF

838

Parenting Education [LINK \(http://bulletin.unl.edu/courses/CYAF/838\)](http://bulletin.unl.edu/courses/CYAF/838)

Prereqs:
Admission to CYAF graduate program or permission.

CYAF 838 (<http://bulletin.unl.edu/courses/CYAF/838>) is open to students in the Military Academic Advancement Program.

The course is needed for the online specialization in Family and Community Services. This course will examine theories, models, research and skills regarding parenting effectiveness and parent-child relations in the context of Western and Eastern cultures.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF 839 Program Development and Evaluation

[LINK \(http://bulletin.unl.edu/courses/CYAF/839\)](http://bulletin.unl.edu/courses/CYAF/839)

Prereqs:
Admission to CYAF graduate program or permission.

CYAF 839 (<http://bulletin.unl.edu/courses/CYAF/839>) is open to students in the Military Academic Advancement Program.

This course analyzes the principles and methods of program design, implementation, and outcome evaluation of family programs.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF 840 Personal Income Taxation

[LINK \(http://bulletin.unl.edu/courses/CYAF/840\)](http://bulletin.unl.edu/courses/CYAF/840)

Prereqs:
Admission to CYAF graduate program or permission

Distance education course delivered by Montana State University.

Income tax practices and procedures including tax regulations, tax return preparation, tax audits, appeals, preparation for an administrative or judicial forum, and ethical considerations. Family/individual case studies provide practice in applying and analyzing information.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF 841 Housing/Real Estate

[LINK \(http://bulletin.unl.edu/courses/CYAF/841\)](http://bulletin.unl.edu/courses/CYAF/841)

Prereqs:
Admission to CYAF graduate program or permission

Distance education course delivered by Iowa State University.

The role of housing and real estate in the financial planning process from a theoretical perspective. Taxation, legal aspects, mortgages, and financial calculations related to home ownership and real estate investments. New and emerging issues, as well as the role of ethics in financial planning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF 842 Parent-Child Relationships Across the Life Span

[LINK \(http://bulletin.unl.edu/courses/CYAF/842\)](http://bulletin.unl.edu/courses/CYAF/842)

Study of parent-child relationships from a developmental, systems, and life-span perspective, including theory, research methods, and application of knowledge.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF 843 Family, School and Community Partnerships

[LINK \(http://bulletin.unl.edu/courses/CYAF/843\)](http://bulletin.unl.edu/courses/CYAF/843)

The role of family, school, and community partnerships in learning and development across the world. Strategies for mobilizing these partnerships

Credit Hours:	3
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to affect change in diverse environments.

Course Format: Lecture 3

Course Delivery: Web

CYAF

844

Family Centered Practice Approaches

[LINK \(http://bulletin.unl.edu/courses/CYAF/844\)](http://bulletin.unl.edu/courses/CYAF/844)

Material and course experiences prepare students for family centered practice regardless of discipline. The family as the unit of observation, programming, and intervention.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Web

CYAF

845

Research in Leadership Education

Crosslisted as *ALEC 845*

[LINK \(http://bulletin.unl.edu/courses/CYAF/845\)](http://bulletin.unl.edu/courses/CYAF/845)

Steps in preparing a research proposal, including statement of the research question, review of relevant literature, and determination of an appropriate research design and methodology. Research methodology, including both quantitative and qualitative procedures.

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

CYAF

849

Resilience in Families

[LINK \(http://bulletin.unl.edu/courses/CYAF/849\)](http://bulletin.unl.edu/courses/CYAF/849)

Prereqs:

Admission to CYAF graduate program or permission.

CYAF 849 (<http://bulletin.unl.edu/courses/CYAF/849>) is open to students in the Military Academic Advancement Program.

Exploration of the evolution of a resilience approach to the study of families and human development. Using a lifespan approach, students will explore resilience across time as well as within special populations such as families experiencing crisis and trauma, culturally diverse families, and military families.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Web

CYAF

850

Teaching Family and Consumer Sciences with Technology

[LINK \(http://bulletin.unl.edu/courses/CYAF/850\)](http://bulletin.unl.edu/courses/CYAF/850)

Prereqs:

Admission to the CYAF graduate program

Distance education course delivered by South Dakota State University.

Integration of technology in the family and consumer sciences classroom focusing on the National Education Technology Standards (NETS).

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CYAF

853

Families in Crisis

[LINK \(http://bulletin.unl.edu/courses/CYAF/853\)](http://bulletin.unl.edu/courses/CYAF/853)

Prereqs:

Admission to CYAF graduate program or permission.

CYAF 853 (<http://bulletin.unl.edu/courses/CYAF/853>) is open to students in the Military Academic Advancement Program.

The purpose of this course is to examine the experiences of individuals and families when crises occur. The course is designed to introduce you to traumatic stress from both individual and systemic theoretical perspectives. It will introduce and review the theoretical and historical beginnings of the concept of trauma, which includes the acceptance of post-traumatic stress disorder (PTSD) as a diagnosis in the DSM IV. This course will discuss various

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Web

trauma reactions, effects of stressful events, as well as the treatment of trauma, stress and crises. Resilience and transcendence of trauma will be outlined, with an emphasis on the importance of self-care for helping professionals working in this area. A particular focus will be placed in understanding the common and unique experiences of individuals and families affected by grief and loss, addictions and substance abuse, violence, child abuse and neglect, and suicidal ideation based on various contextual factors. The course will include discussion of evidence-based prevention and treatment options as well as community resources for individuals and families affected by stress, trauma, and crises.

CYAF
854 **Family Dynamics**

[LINK \(http://bulletin.unl.edu/courses/CYAF/854\)](http://bulletin.unl.edu/courses/CYAF/854)

Prereqs:
Admission to CYAF graduate program or permission.

CYAF 854 (<http://bulletin.unl.edu/courses/CYAF/854>) is open to students in the Military Academic Advancement Program.

The course will examine theories of family function and dysfunction, techniques of assessment, and models of family intervention.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF
855 **Psychology of Adolescence**

[LINK \(http://bulletin.unl.edu/courses/CYAF/855\)](http://bulletin.unl.edu/courses/CYAF/855)

Prereqs:
Admission to the CYAF graduate program and permission

Distance education course delivered by North Dakota State University.

Student differences and ways of adjusting teaching practice to meet individual needs. Application of learning theories to educate the whole child (cognitive, affective, social). Equitable treatment of students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF
856 **Foundations and Principles in Family and Community Services**

[LINK \(http://bulletin.unl.edu/courses/CYAF/856\)](http://bulletin.unl.edu/courses/CYAF/856)

Prereqs:
Admission to CYAF graduate program or permission.

CYAF 856 (<http://bulletin.unl.edu/courses/CYAF/856>) is open to students in the Military Academic Advancement Program.

This course provides an introduction to the program of family and community services and professions that involve working with individuals and families in communities.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF
857 **Family Resource Management**

[LINK \(http://bulletin.unl.edu/courses/CYAF/857\)](http://bulletin.unl.edu/courses/CYAF/857)

Prereqs:
Admission to CYAF graduate program or permission.

CYAF 857 (<http://bulletin.unl.edu/courses/CYAF/857>) is open to students in the Military Academic Advancement Program.

Survey course of personal finance and family resource management literature to provide an overview of how individual and family members develop and exercise their capacity to obtain and manage resources to meet life needs. Resources include the self, other people, time, money, energy, material assets, space, and environment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF
859

Interpersonal Relationships

[LINK \(http://bulletin.unl.edu/courses/CYAF/859\)](http://bulletin.unl.edu/courses/CYAF/859)

Prereqs:
Admission to CYAF graduate program or permission.

CYAF 859 (<http://bulletin.unl.edu/courses/CYAF/859>) is open to students in the Military Academic Advancement Program.

This course will conduct an in-depth examination of interpersonal relationships, including theoretical perspectives, research methods, relationship forms, relationship processes, and how context affects relationships.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF
861

Foundations of Youth Development

[LINK \(http://bulletin.unl.edu/courses/CYAF/861\)](http://bulletin.unl.edu/courses/CYAF/861)

Prereqs:
Admission to CYAF graduate program

Pass/No Pass only.

Fundamentals of youth development and the youth development profession. Ethical, professional and historical elements of youth development as it has evolved toward professionalization.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

CYAF
862

Case Studies: Strengths and Challenges of Families Across the World

[LINK \(http://bulletin.unl.edu/courses/CYAF/862\)](http://bulletin.unl.edu/courses/CYAF/862)

Exploration of family strengths and challenges from multiple nations and cultures using case study methodology.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF
863

Youth Professionals as Consumers of Research

[LINK \(http://bulletin.unl.edu/courses/CYAF/863\)](http://bulletin.unl.edu/courses/CYAF/863)

Prereqs:
Admission to CYAF graduate program

Distance education course delivered by the University of Nebraska-Lincoln and North Dakota State University.

Research report evaluation skills for youth development professionals. Fundamental quantitative and qualitative research principles guiding disciplined inquiry. Application of research results and theories to practice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
864

Community Youth Development

[LINK \(http://bulletin.unl.edu/courses/CYAF/864\)](http://bulletin.unl.edu/courses/CYAF/864)

Prereqs:
Admission to CYAF graduate program

May be offered via distance education by Michigan State University.

National emphasis of strength-based or asset approach to community youth development, encompassing individual development and adolescent relationships with environments. Research, theory and practice applied in communities. Existing models, theoretical and applied literature, and current community efforts.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

Research Design and Methods

[LINK \(http://bulletin.unl.edu/courses/CYAF/865\)](http://bulletin.unl.edu/courses/CYAF/865)

865

This course is a prerequisite for: [CYAF 867 \(http://bulletin.unl.edu/courses/CYAF/867\)](http://bulletin.unl.edu/courses/CYAF/867)

Qualitative and quantitative research designs and methods used in conducting research. Students develop a research proposal.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF **866** **Family Professionals as Consumers of Research**

[LINK \(http://bulletin.unl.edu/courses/CYAF/866\)](http://bulletin.unl.edu/courses/CYAF/866)

Elements of conducting and reporting research and various research designs. Quantitative and qualitative methodologies. Skills required to effectively evaluate the quality of research reports and how to apply findings to practices in education, counseling, and family policy.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF **867** **Implementing Research and Scholarly Practice**

[LINK \(http://bulletin.unl.edu/courses/CYAF/867\)](http://bulletin.unl.edu/courses/CYAF/867)

Prereqs:
[CYAF 865 \(http://bulletin.unl.edu/courses/CYAF/865\)](http://bulletin.unl.edu/courses/CYAF/865)

Use developed proposal to conduct a pilot study and report results. Technical writing of research reports.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF **868** **Adolescents and Their Families**

[LINK \(http://bulletin.unl.edu/courses/CYAF/868\)](http://bulletin.unl.edu/courses/CYAF/868)

Prereqs:
Admission to CYAF graduate program

Distance education course delivered by Kansas State University and the University of Missouri–Columbia.

Adolescent development as related to and intertwined with family development. Reciprocal influences between adolescents and their families. Working with youth vis a vis the family system.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF **869** **Administration and Program Management**

[LINK \(http://bulletin.unl.edu/courses/CYAF/869\)](http://bulletin.unl.edu/courses/CYAF/869)

Prereqs:
Admission to CYAF graduate program

Distance education course delivered by Kansas State University and the University of Missouri–Columbia.

Introduction to the development, administration and management of youth-serving organizations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF **872** **Youth Development**

[LINK \(http://bulletin.unl.edu/courses/CYAF/872\)](http://bulletin.unl.edu/courses/CYAF/872)

Prereqs:
12 hours CYAF or social sciences

Distance education course delivered by the University of Nebraska–Lincoln and the University of North Dakota.

Credit Hours:	3
Campus:	UNO
Course Delivery:	Classroom

Scientific literature concerning the interrelationship of the physiological, psychological and sociological aspects of the adolescent and young adulthood years. Understanding of individuals and their continuous adjustment within the family life cycle as they make the transition from childhood to adulthood.

CYAF

873

Program Design, Evaluation and Implementation

[LINK \(http://bulletin.unl.edu/courses/CYAF/873\)](http://bulletin.unl.edu/courses/CYAF/873)

Prereqs:
Admission to CYAF graduate program

Distance education course delivered by the University of Nebraska–Lincoln.

Overview of program development process and outcome evaluation of community children and family programs. Theoretical, methodological and programmatic issues in conducting programs and scholarship.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

875

Youth in Cultural Contexts

[LINK \(http://bulletin.unl.edu/courses/CYAF/875\)](http://bulletin.unl.edu/courses/CYAF/875)

Prereqs:
Admission to CYAF graduate program

Distance education course delivered by Michigan State University and the University of Missouri–Columbia.

Cultural context factors that affect youth from a holistic perspective within and outside the family unit. The cultural heritage of differing family types. Social and educational processes.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

878

Youth Policy

[LINK \(http://bulletin.unl.edu/courses/CYAF/878\)](http://bulletin.unl.edu/courses/CYAF/878)

Prereqs:
Admission to CYAF graduate program

Distance education course delivered by Michigan State University.

Various federal and state policies designed specifically for youth. Existing state and national policies as to whether they contribute to, or act as barriers to, desired developmental outcomes.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

879

Research Methods in Family Studies

[LINK \(http://bulletin.unl.edu/courses/CYAF/879\)](http://bulletin.unl.edu/courses/CYAF/879)

Scientific, holistic and innovative approaches to studying children and families across the globe. The influence of international, cross-cultural, and other multi-national social, religious, and political contexts that affect the study of families throughout the world will be explored.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CYAF

880

Contemporary Youth Issues

[LINK \(http://bulletin.unl.edu/courses/CYAF/880\)](http://bulletin.unl.edu/courses/CYAF/880)

Issues faced by youth such as life skills, violence, and appearance. Topics vary.

Credit Hours:	1–9
Max credits per degree:	9
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

CYAF

881**Family Systems**[LINK \(http://bulletin.unl.edu/courses/CYAF/881\)](http://bulletin.unl.edu/courses/CYAF/881)**Prereqs:****Admission to CYAF graduate program or permission***Distance education course delivered by North Dakota State University.*

Research and theory relative to family functioning throughout the life cycle, especially financial decision making during crisis and conflict. Factors that shape family values, attitudes, and behaviors from a multi-cultural perspective. New and emerging issues critical to family functioning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

883**Investing for the Family's Future**[LINK \(http://bulletin.unl.edu/courses/CYAF/883\)](http://bulletin.unl.edu/courses/CYAF/883)**Prereqs:****Admission to CYAF graduate program***Distance education course delivered by Iowa State University.*

Investment options for families. Common stocks, fixed income securities, convertible securities, and related choices. The relationship between investment options and employee and/or employer benefit plan choices.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF

884**Foundations in Family Studies**[LINK \(http://bulletin.unl.edu/courses/CYAF/884\)](http://bulletin.unl.edu/courses/CYAF/884)

Introduction to the trans-disciplinary field of Family Studies from global perspectives. Theoretical and research approaches to the study of the family in varied cultural and national contexts will be explored.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF

885**Families and Cultural Diversity**[LINK \(http://bulletin.unl.edu/courses/CYAF/885\)](http://bulletin.unl.edu/courses/CYAF/885)

Critical understanding of the diversity of family forms in their cultural contexts. The impact of history, tradition and contemporary trends on families will be explored. Emphasis will be on recognizing, accepting, and working within a context of diversity of culture and family form.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF

886**Strengths and Challenges of Families Across the World**[LINK \(http://bulletin.unl.edu/courses/CYAF/886\)](http://bulletin.unl.edu/courses/CYAF/886)

Theoretical, practical and experiential learning to enhance understanding of family strengths and challenges across the world. Principles for developing culturally sensitive strengths-enhancing programming for children and families throughout the world will be addressed.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF

887**International Perspective on Family Policy**[LINK \(http://bulletin.unl.edu/courses/CYAF/887\)](http://bulletin.unl.edu/courses/CYAF/887)

Analysis of the systems, contexts and policies that affect individuals and families throughout the world.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF

889**Program Design , Implementation and Evaluation**[LINK \(http://bulletin.unl.edu/courses/CYAF/889\)](http://bulletin.unl.edu/courses/CYAF/889)

Principles and methods of program design, implementation, and outcome evaluation of family programs in global contexts and across the globe.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

CYAF

891**Special Topics in Human Sciences**[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMTD 891*

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

CYAF

894J**Professional Practicum Experiences**[LINK \(http://bulletin.unl.edu/courses/CYAF/894J\)](http://bulletin.unl.edu/courses/CYAF/894J)**Prereqs:**

Admission to CYAF degree program

This course is a prerequisite for: [CYAF 451 \(http://bulletin.unl.edu/courses/CYAF/451\)](http://bulletin.unl.edu/courses/CYAF/451), [CYAF 452 \(http://bulletin.unl.edu/courses/CYAF/452\)](http://bulletin.unl.edu/courses/CYAF/452)

[CYAF 894J \(http://bulletin.unl.edu/courses/CYAF/894J\)](http://bulletin.unl.edu/courses/CYAF/894J) is Pass/No Pass only. Must be taken for 1 credit concurrently with [CYAF 851 \(http://bulletin.unl.edu/courses/CYAF/851\)](http://bulletin.unl.edu/courses/CYAF/851)/852 (<http://bulletin.unl.edu/courses/CYAF/852>).

Family and Consumer Sciences Education.

Credit Hours:	1-10
Max credits per degree:	10
Course Format:	Field
Campus:	
Course Delivery:	Classroom

CYAF

897A**Student Teaching in Early Childhood Education**[LINK \(http://bulletin.unl.edu/courses/CYAF/897A\)](http://bulletin.unl.edu/courses/CYAF/897A)**Prereqs:**

[CYAF 270 \(http://bulletin.unl.edu/courses/CYAF/270\)](http://bulletin.unl.edu/courses/CYAF/270) and [CYAF 270L \(http://bulletin.unl.edu/courses/CYAF/270L\)](http://bulletin.unl.edu/courses/CYAF/270L) with grades of 'C' or better; and permission.

[CYAF 897A \(http://bulletin.unl.edu/courses/CYAF/897A\)](http://bulletin.unl.edu/courses/CYAF/897A) is Pass/No Pass only.

Integrating development theory into the planning, implementation, and evaluation of individual and group experiences for young children in the child development laboratory.

Credit Hours:	3
Course Format:	Lab 24, Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF

897B**Practicum in Family Financial Planning**[LINK \(http://bulletin.unl.edu/courses/CYAF/897B\)](http://bulletin.unl.edu/courses/CYAF/897B)**Prereqs:**

Admission to CYAF graduate program or permission

Pass/No Pass only.

Credit Hours:	3-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CYAF

897E**Practicum in Family and Consumer Sciences Education**[LINK \(http://bulletin.unl.edu/courses/CYAF/897E\)](http://bulletin.unl.edu/courses/CYAF/897E)

Prereqs:
Admission to CYAF degree program and permission

Pass/No Pass only. Distance education course delivered by Central Washington State University.

Development and implementation of teaching plans in supervised schools grades 7–12. Observation of the effectiveness of classroom management practices.

Credit Hours:	1–3
Max credits per degree:	3
Course Format:	Field
Campus:	
Course Delivery:	Classroom

CYAF
898

Research Experience in Child, Youth and Family Studies

[LINK \(http://bulletin.unl.edu/courses/CYAF/898\)](http://bulletin.unl.edu/courses/CYAF/898)

Prereqs:
18 hrs CYAF and/or social sciences

CYAF 898 (<http://bulletin.unl.edu/courses/CYAF/898>) requires a contract with a CYAF faculty member.

Participation in an ongoing research project in child development studies and/or early childhood education, family science, marriage and family therapy, family and financial management, or family and consumer sciences education.

Credit Hours:	1–5
Max credits per degree:	5
Course Format:	Independent Study
Campus:	UNO
Course Delivery:	Classroom

CYAF
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/CYAF/899\)](http://bulletin.unl.edu/courses/CYAF/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6–10
Campus:	
Course Delivery:	Classroom

CYAF
900

Philosophy of Child and Family Sciences

[LINK \(http://bulletin.unl.edu/courses/CYAF/900\)](http://bulletin.unl.edu/courses/CYAF/900)

Theory and modes of inquiry in child and family science, and how this theory and evidence is used to discover knowledge.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CYAF
920

Teaching Practicum

Crosslisted as *NUTR 920, TMFD 920*

[LINK \(http://bulletin.unl.edu/courses/CYAF/920\)](http://bulletin.unl.edu/courses/CYAF/920)

Prereqs:
CYAF 918 (<http://bulletin.unl.edu/courses/CYAF/918>) or permission of department chair

Supervised classroom experiences designed to develop competencies in teaching at the college level.

Credit Hours:	1–3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

CYAF
950

Family Law

Crosslisted as *LAW 630G*

[LINK \(http://bulletin.unl.edu/courses/CYAF/950\)](http://bulletin.unl.edu/courses/CYAF/950)

The family examined as a socio-legal entity with respect to its creation, dissolution, and the problems incident to its continuation, including interspousal rights and duties and the relationship between parents and children.

Credit Hours:	1–4
Campus:	
Course Delivery:	Classroom

CYAF
951

Theoretical Foundations of Marriage and Family Therapy

[LINK \(http://bulletin.unl.edu/courses/CYAF/951\)](http://bulletin.unl.edu/courses/CYAF/951)

Prereqs:
12 hrs CYAF and/or social sciences

This course is a prerequisite for: [CYAF 954 \(http://bulletin.unl.edu/courses/CYAF/954\)](http://bulletin.unl.edu/courses/CYAF/954),
[CYAF 955A \(http://bulletin.unl.edu/courses/CYAF/955A\)](http://bulletin.unl.edu/courses/CYAF/955A)

General systems theory, its derivations and application in family therapy.
Family therapy's history, contributions, current theorists, and approaches.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
952

Psychopathology and Dysfunctional Interactions

[LINK \(http://bulletin.unl.edu/courses/CYAF/952\)](http://bulletin.unl.edu/courses/CYAF/952)

Psychological, behavioral and emotional disorders identified in the Diagnostic and Statistical Manual and various interpersonal dysfunctions. Interpersonal antecedents and consequences of these disorders. Integration of individual and family diagnosis. Research supporting treatment from a family systems approach.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
953

Issues and Ethics for Family Professionals

[LINK \(http://bulletin.unl.edu/courses/CYAF/953\)](http://bulletin.unl.edu/courses/CYAF/953)

Prereqs:
12 hrs CYAF and/or social sciences

Ethical and professional issues that family professionals confront as they assist families to cope with problems and strengthen family systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
954

Assessment in Family Therapy

[LINK \(http://bulletin.unl.edu/courses/CYAF/954\)](http://bulletin.unl.edu/courses/CYAF/954)

Prereqs:
12 hrs CYAF and/or social sciences; [CYAF 951 \(http://bulletin.unl.edu/courses/CYAF/951\)](http://bulletin.unl.edu/courses/CYAF/951) and [952 \(http://bulletin.unl.edu/courses/CYAF/952\)](http://bulletin.unl.edu/courses/CYAF/952), or equivalent or permission

Assessment of family systems using objective and subjective measures for the purpose of clinical intervention and research.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
955A

Clinical Family Therapy I

[LINK \(http://bulletin.unl.edu/courses/CYAF/955A\)](http://bulletin.unl.edu/courses/CYAF/955A)

Prereqs:
12 hrs CYAF and/or social sciences; masters admission in CYAF; [CYAF 951 \(http://bulletin.unl.edu/courses/CYAF/951\)](http://bulletin.unl.edu/courses/CYAF/951), and permission

This course is a prerequisite for: [CYAF 955B \(http://bulletin.unl.edu/courses/CYAF/955B\)](http://bulletin.unl.edu/courses/CYAF/955B),
[CYAF 997 \(http://bulletin.unl.edu/courses/CYAF/997\)](http://bulletin.unl.edu/courses/CYAF/997)

Didactic training and supervised laboratory/clinic-based experiences in marriage and family therapy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
955B

Clinical Family Therapy II

[LINK \(http://bulletin.unl.edu/courses/CYAF/955B\)](http://bulletin.unl.edu/courses/CYAF/955B)

Prereqs:
12 hrs CYAF and/or social sciences; masters admission in CYAF; [CYAF 951 \(http://bulletin.unl.edu/courses/CYAF/951\)](http://bulletin.unl.edu/courses/CYAF/951)

Credit Hours:	3
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955A (<http://bulletin.unl.edu/courses/CYAF/955A>), permission

Didactic training and supervised laboratory/clinic-based experiences in marriage and family therapy.

Campus:

Course Delivery: Classroom

CYAF

956

Treatment of Human Sexual Dysfunction

[LINK \(http://bulletin.unl.edu/courses/CYAF/956\)](http://bulletin.unl.edu/courses/CYAF/956)

Prereqs:
Permission

CYAF 956 (<http://bulletin.unl.edu/courses/CYAF/956>) is only open to those students involved in clinical training.

Investigation of the literature, research, and theories of typical and atypical sexual behavior and expression. Assessment and treatments of sexual dysfunctions and other problematic sexual behavior will be examined from a theoretical and applied perspective.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CYAF

961

Seminar in Parent/Child Relationships

[LINK \(http://bulletin.unl.edu/courses/CYAF/961\)](http://bulletin.unl.edu/courses/CYAF/961)

Relationships between parents and children from the developmental, contextual, and life-span perspectives. Theoretical, methodological, and applied implications of research.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CYAF

970

Advanced Early Childhood Education

[LINK \(http://bulletin.unl.edu/courses/CYAF/970\)](http://bulletin.unl.edu/courses/CYAF/970)

Prereqs:
18 hrs PSYC, EDPS, SOCI, or CYAF

Advanced philosophy, procedures, and policies relating to early childhood education at the nursery school-kindergarten level and care of children outside the home.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CYAF

971

Seminar in Child Development

[LINK \(http://bulletin.unl.edu/courses/CYAF/971\)](http://bulletin.unl.edu/courses/CYAF/971)

Prereqs:
18 hrs PSYC, EDPS, SOCI, or CYAF

Analysis of major studies and current literature in Child Development/Early Childhood Education.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CYAF

972

Theories of Human Development and Family Relations

[LINK \(http://bulletin.unl.edu/courses/CYAF/972\)](http://bulletin.unl.edu/courses/CYAF/972)

Prereqs:
18 hrs PSYC, and/or EDPS, and/or SOCI, and/or CYAF

Theoretical basis of child study and family analysis. Critical evaluation of methods and theories in child development, family relations, and human development from an integrative and holistic perspective.

Credit Hours: 3

Course Delivery: Classroom

CYAF

Social Processes in Children

[LINK \(http://bulletin.unl.edu/courses/CYAF/973\)](http://bulletin.unl.edu/courses/CYAF/973)

973**Prereqs:**

CYAF 876 (<http://bulletin.unl.edu/courses/CYAF/876>), **971** (<http://bulletin.unl.edu/courses/CYAF/971>), or **972** (<http://bulletin.unl.edu/courses/CYAF/972>) or equivalent and 18 hours CYAF, PSYC, EDPS, or SOCI

Synthesis of current and historical perspectives in theory and research on children's social development including multiple contexts for socialization/individuation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

974**The Infant in the Family**[LINK \(http://bulletin.unl.edu/courses/CYAF/974\)](http://bulletin.unl.edu/courses/CYAF/974)**Prereqs:**

12 hrs in CYAF, or social sciences

Infant development within the context of the family.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

98/498**UCARE, REU, Non-UCARE Research Experience in Child, Youth and Family Studies**[LINK \(http://bulletin.unl.edu/courses/CYAF/98\)](http://bulletin.unl.edu/courses/CYAF/98)

CYAF 98 (<http://bulletin.unl.edu/courses/CYAF/98/498>) (<http://bulletin.unl.edu/courses/CYAF/498>) requires a completed contract form before registering. *CYAF 98* (<http://bulletin.unl.edu/courses/CYAF/98>) is zero credit hours and is 'Pass/No Pass only'.

Undergraduate Creative Research Experience (UCARE), Research Experience For Undergraduates (REU), and non-UCARE research and/or creative activity.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Independent Study
Campus:	UNO
Course Delivery:	Classroom

CYAF

980**Comparative Family Systems**[LINK \(http://bulletin.unl.edu/courses/CYAF/980\)](http://bulletin.unl.edu/courses/CYAF/980)

Structure and functioning of families in other cultures. Analysis of the interchanges between the family and larger society at different stages of the life cycle.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

981**Readings in Family Life**[LINK \(http://bulletin.unl.edu/courses/CYAF/981\)](http://bulletin.unl.edu/courses/CYAF/981)**Prereqs:**

18 hrs CYAF, PSYC, EDPS, or SOCI

Analysis and critical evaluation of major theories and current related literature in such phases of family life as development of personality, mate selection, and adjustment in marriage.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF

989**Collaborative Health Care**[LINK \(http://bulletin.unl.edu/courses/CYAF/989\)](http://bulletin.unl.edu/courses/CYAF/989)

Conceptual models for collaborative care practices with an emphasis on care delivery systems in rural areas.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	

CYAF

995**Doctoral Seminar**[LINK \(http://bulletin.unl.edu/courses/CYAF/995\)](http://bulletin.unl.edu/courses/CYAF/995)**Prereqs:**
Permission

CYAF 995 (<http://bulletin.unl.edu/courses/CYAF/995>) is intended primarily for doctoral students, although other graduate students may be admitted with permission.

Develop, execute and report on one or more projects on an individual or small group basis. Immersion in outcome-based scholarly activities with a faculty mentor. The interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Course Delivery:	Classroom

CYAF

996**Scholarly Practice and Discovery**[LINK \(http://bulletin.unl.edu/courses/CYAF/996\)](http://bulletin.unl.edu/courses/CYAF/996)**Prereqs:**
Permission

Investigation related to family and consumer sciences.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CYAF

997**Advanced Practicum in Family Therapy**[LINK \(http://bulletin.unl.edu/courses/CYAF/997\)](http://bulletin.unl.edu/courses/CYAF/997)**Prereqs:**
CYAF 955A (<http://bulletin.unl.edu/courses/CYAF/955A>) and B and permission

Supervised marital and family therapy in university and community agencies.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CYAF

998**Special Topics in Human Sciences**Crosslisted as *NUTR 998, TMFD 998*[LINK \(http://bulletin.unl.edu/courses/CYAF/998\)](http://bulletin.unl.edu/courses/CYAF/998)**Prereqs:**
Permission

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CYAF

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/CYAF/999\)](http://bulletin.unl.edu/courses/CYAF/999)**Prereqs:**
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

NUTR

810**Transdisciplinary Obesity Prevention**Crosslisted as *CYAF 810*[LINK \(http://bulletin.unl.edu/courses/NUTR/810\)](http://bulletin.unl.edu/courses/NUTR/810)**Prereqs:**

Credit Hours:	3
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[NUTR 455 \(http://bulletin.unl.edu/courses/NUTR/455\)](http://bulletin.unl.edu/courses/NUTR/455) or equivalent;
Graduate standing.

Using a transdisciplinary team of faculty and guest lecturers, students will be introduced to the interrelationship of obesity and dietary components, behavior, exercise and sports science, physical activity, health promotion, genetics, nutrigenomics, child development, family dynamics, cultural issues, epidemiology, population disparity, educational leadership, public policy and other related topics.

Course Format:	Lecture 3
Course Delivery:	Classroom

NUTR **910** Research Methods in Childhood Obesity

Crosslisted as *CYAF 910*

[LINK \(http://bulletin.unl.edu/courses/NUTR/910\)](http://bulletin.unl.edu/courses/NUTR/910)

Prereqs:
Graduate standing.

The purpose of this course is to examine the philosophy, goals, and methodologies related within the concept of childhood obesity research. The class will include study design, survey development, evaluation and application of basic research tools. In addition, students will critically evaluate different types of research in relation to childhood obesity. Class discussion will focus on the multiple factors that impact childhood obesity and potential measurement of these factors in the outcome of childhood obesity prevention.

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Classroom

PSYC **471/871** Human Sexuality and Society

Crosslisted as *SOCI 471/871, EDPS 471/871, CYAF 471/871*

[LINK \(http://bulletin.unl.edu/courses/PSYC/471\)](http://bulletin.unl.edu/courses/PSYC/471)

Prereqs:
Junior standing and 12 hrs in one of the departments in which the course is listed.

Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.).

Interdisciplinary approach to the study of human sexuality in terms of the psychological, social, cultural, anthropological, legal, historical, and physical characteristics of individual sexuality and sex in society.

Credit Hours:	3
Course Delivery:	Classroom

SPED **892** Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or parallel; [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC **930** Sociological/Anthropological Research Methods in Education

Crosslisted as *EDPS 930, CYAF 930, NUTR 930*

[LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1-3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1-3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1-3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1-3 cr, max 3)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

- 3)
- J. Hermeneutic Traditions in Education (1–3 cr, max 3)
- K. Quantitative Research Traditions in Education (1–3 cr, max 3)

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ChildYouthAndFamilyStudies). (<http://www.unl.edu/gradstudies/prospective/programs/ChildYouthAndFamilyStudies>)

Interim Department Chair: Richard Bischoff, Ph.D.

Graduate Committee: Associate Professor Torquati (chair); Professors Abbott, Bischoff, Edwards, Molfese, Raikes; Associate Professors Churchill, Dalla, deGuzman, Huddleston–Casas, Xia; Assistant Professors, Durden, Hollist, Hong, Reisbig, Springer; Associate Professor of Practice Rupiper, Lecturer Letkiewicz

Master of Science Degree

The master of science degree in Child, Youth and Family Studies has a central focus on the family or issues that relate to the family. Six areas of specialization are available: Child Development/Early Childhood Education, Family and Consumer Sciences Education, Family Financial Planning, Human and Family Services Administration, Marriage and Family Therapy, and Youth Development.

Family and Consumer Sciences Education, Family Financial Planning, and Youth Development are interinstitutional programs via distance education. The Child, Youth and Family Studies Masters Degree Handbook, available on the Web at cehs.unl.edu/cyaf/grad, outlines the program requirements.

Candidates for the MS degree must hold a bachelors degree from an accredited college/university and have completed at least 18 hours in child, youth and family studies or the equivalent from related fields. A minimum 3.0 undergraduate GPA is required. Some specializations require the GRE and have their scores submitted as part of their application.

- Applications for the Child Development specialization will be considered on the deadlines of January 10, April 15, and October 15.
- Deadlines for Human and Family Services Administration; Family and Consumer Sciences Education; Family Financial Planning; and Youth Development specializations are on a continuing basis.
- Applicants interested in Marriage and Family Therapy will only be considered on the January 15 deadline or until available slots are filled.

Certificate Programs

- The Interdepartmental **Certificate Program in Medical Family Therapy** is a joint program between the UNMC Department of Family Medicine and the UNL Department of Child, Youth and Family Studies. The program offers intensive training in medical family therapy and collaborative health care. It is designed for both health and mental health professionals who are interested in implementing the biopsychosocial–family systems model in the clinical setting.
- Certificate programs in **Family Financial Planning and Youth Development** are also offered.
- A new certificate in **Transdisciplinary Childhood Obesity Prevention (TOPS)** is a joint program offered with the Nutrition department. This certificate is unique and would help provide expertise in a job market needing health professionals with this training.

For complete information, refer to cehs.unl.edu/cyaf/grad. Please contact the department for any additional information.

University of Nebraska–Lincoln
Department of Child, Youth and Family Studies
135 Mabel Lee Hall
Lincoln, NE 68583–0236
(402) 472–2957

Doctor of Philosophy Degree

Studies leading to a PhD in human sciences with specializations in Child, Youth and Family Studies, Gerontology, and Medical Family Therapy are available. This degree prepares scholars both in applied and basic aspects of Child, Youth and Family Studies. The focus is to prepare scholars for leadership roles in teaching, research and/or policy development and implementation. The *Child, Youth and Family Studies PhD Handbook* is available on the Web at cehs.unl.edu/cyaf/grad, and outlines the program requirements.

Applications are considered January 10 for the upcoming academic year.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ChildYouthAndFamilyStudies). (<http://www.unl.edu/gradstudies/prospective/programs/ChildYouthAndFamilyStudies>)

Retrieved from "<http://bulletin.unl.edu/graduate/Child, Youth and Family Studies> (<http://bulletin.unl.edu/graduate/Child, Youth and Family Studies>)"
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Classics and Religious Studies

Subject Areas

- [Classics \(CLAS\) \(#CLAS\)](#)
- [Greek \(GREK\) \(#GREK\)](#)
- [Hebrew \(HEBR\) \(#HEBR\)](#)

- [Latin \(LATN\) \(#LATN\)](#)
- [Religious Studies \(RELG\) \(#RELG\)](#)

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Courses for CLAS (CLAS)

ANTH 438/838	Topics in Old World Prehistory Crosslisted as <i>CLAS 438/838</i>	LINK (http://bulletin.unl.edu/courses/ANTH/438)
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Prereqs: ANTH 242 (http://bulletin.unl.edu/courses/ANTH/242) or equivalent.	Credit Hours: 3
Topics drawn from the wide breadth of Old World prehistory. Archaeological data relevant to selected theoretical or topical problems.	Course Format: Lecture 3
	Course Delivery: Classroom
	Groups: Archaeology

CLAS 307/807	Early Christianity Crosslisted as <i>HIST 307/807, RELG 307</i>	LINK (http://bulletin.unl.edu/courses/CLAS/307)
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<i>Pre-1800 content.</i> Life, literature, thought, and institutions of the Christian movement from Jesus to Constantine. A critical, historical approach to the sources in English translation and how they reflect the interaction of Christian, Jew, and pagan in late antiquity. Includes the historical Jesus vis-a-vis the Christ of Faith, the impact of Paul's thought, the formation of Christian dogma, methods of interpreting canonical and extra-canonical Christian literature, the problem of heresy and orthodoxy.	Credit Hours: 3
	Course Format: Lecture
	Course Delivery: Classroom

CLAS 409/809	Religion of Late Western Antiquity Crosslisted as <i>HIST 409/809, RELG 409</i>	LINK (http://bulletin.unl.edu/courses/CLAS/409)
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<i>Pre-1800 content.</i> Examination of the religious institutions, philosophies, and lifeways of the Hellenistic Age from Alexander to Constantine. Includes civic religion of Greece and Rome, popular religion, mystery cults, Judaism, Christianity, popular and school philosophies (Platonism, Aristotelianism, Epicureanism, Cynicism, Stoicism), Gnosticism. History, interrelationships, emerging world view of these movements.	Credit Hours: 2-3
	Course Format: Lecture
	Course Delivery: Classroom

CLAS 410/810	Gnosticism Crosslisted as <i>RELG 410</i>	LINK (http://bulletin.unl.edu/courses/CLAS/410)
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Examination of the nature, history, literature, ritual, and impact of the classical Gnostic religions, 100 BCE to 400 CE. Extensive reading of original Gnostic treatises in English translation, with particular attention to their appropriation and transformation of earlier Jewish, Christian, and pagan religious and philosophical traditions. The principal Gnostic schools to be treated are Simonians, Sethians, Valentinians, Hermetics, and Manichaeans.	Credit Hours: 3
	Course Delivery: Classroom

CLAS 440/840	Gender and Sexuality in the Ancient World Crosslisted as <i>WMNS 440/840</i>	LINK (http://bulletin.unl.edu/courses/CLAS/440)
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Ancient Greek and Roman evidence pertaining to the fields of women's studies, gender studies, and the study of sexuality.	Credit Hours: 3
	Course Format: Lecture 3
	Course Delivery: Classroom

CLAS

Classical Drama[LINK \(http://bulletin.unl.edu/courses/CLAS/483\)](http://bulletin.unl.edu/courses/CLAS/483)**483/883**Crosslisted as *ENGL 440/840***Prereqs:****Senior standing or permission.**

Greek and Roman tragedy and comedy in translation.

Credit Hours:	3
Course Delivery:	Classroom

HIST

Democracy and Tyranny in Classical Athens[LINK \(http://bulletin.unl.edu/courses/HIST/412\)](http://bulletin.unl.edu/courses/HIST/412)**412/812**Crosslisted as *CLAS 412***Prereqs:****Junior standing or permission.***Pre-1800 content.*

Development and influence of the Greek city-states, focusing on the establishment and transformation of the Athenian democracy in the 6th and 5th centuries BCE from popular sovereignty to the rule of written law. Including the three periods of tyranny, reaction to the Persian Invasions, and the impact of the Peloponnesian War.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Pre-1800, European History

HIST

The Roman Revolution, 133 BC–68 AD[LINK \(http://bulletin.unl.edu/courses/HIST/417\)](http://bulletin.unl.edu/courses/HIST/417)**417/817**Crosslisted as *CLAS 417***Prereqs:****Junior standing or permission.***Pre-1800 content.*

Critical period in Roman history when the republic was transformed into the rule by one man: Political and social functioning of the republic, causes for change, and factors influencing its final shape. Careers of the Gracchi, Marius, Sulla, Pompey, Caesar, Anthony, and Augustus.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Pre-1800, European History

HIST

Augustan Rome[LINK \(http://bulletin.unl.edu/courses/HIST/418\)](http://bulletin.unl.edu/courses/HIST/418)**418/818**Crosslisted as *CLAS 418***Prereqs:**

[HIST 100 \(http://bulletin.unl.edu/courses/HIST/100/\)](http://bulletin.unl.edu/courses/HIST/100/) / [100H \(http://bulletin.unl.edu/courses/HIST/100H/\)](http://bulletin.unl.edu/courses/HIST/100H/) or [210 \(http://bulletin.unl.edu/courses/HIST/210/\)](http://bulletin.unl.edu/courses/HIST/210/).

Augustus' constitutional transformation of Rome, and enforcement of a national identity and values through religion, social legislation, provincial governance policies, and patronage of public works, display, and literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	European History, Pre- 1800

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Courses for GREK (GREK)

GREK

Topics in Greek Prose[LINK \(http://bulletin.unl.edu/courses/GREK/491\)](http://bulletin.unl.edu/courses/GREK/491)**491/891***Repeatable*

Readings from Greek prose masterpieces, Topics vary.

Credit Hours:	3
Max credits per semester:	24
Course Delivery:	Classroom

GREK

Topics in Greek Poetry[LINK \(http://bulletin.unl.edu/courses/GREK/492\)](http://bulletin.unl.edu/courses/GREK/492)

492/892

Repeatable

Readings from Greek verse masterpieces, Topics vary.

Credit Hours:	3
Max credits per semester:	24
Course Delivery:	Classroom

GREK

896

Reading and Research

[LINK \(http://bulletin.unl.edu/courses/GREK/896\)](http://bulletin.unl.edu/courses/GREK/896)

Prereqs:
Permission

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

GREK

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/GREK/899\)](http://bulletin.unl.edu/courses/GREK/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

GREK

961

Seminar in Greek Literature

[LINK \(http://bulletin.unl.edu/courses/GREK/961\)](http://bulletin.unl.edu/courses/GREK/961)

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

Courses for HEBR (HEBR)

HEBR

896

Readings and Research

[LINK \(http://bulletin.unl.edu/courses/HEBR/896\)](http://bulletin.unl.edu/courses/HEBR/896)

Prereq: Permission

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

Courses for LATN (LATN)

LATN

456/856

Latin of the Middle Ages

[LINK \(http://bulletin.unl.edu/courses/LATN/456\)](http://bulletin.unl.edu/courses/LATN/456)

Prereqs:
[LATN 302 \(http://bulletin.unl.edu/courses/LATN/302\)](http://bulletin.unl.edu/courses/LATN/302) or permission.

Credit Hours:	3
Course Delivery:	Classroom

Selections from representative authors.

LATN

Topics in Latin Prose

[LINK \(http://bulletin.unl.edu/courses/LATN/491\)](http://bulletin.unl.edu/courses/LATN/491)

491/891*Repeatable*

Readings from Latin prose masterpieces, Topics vary.

Credit Hours:	3
Max credits per semester:	24
Course Delivery:	Classroom

LATN

Topics in Latin Poetry[LINK \(http://bulletin.unl.edu/courses/LATN/492\)](http://bulletin.unl.edu/courses/LATN/492)**492/892***Repeatable*

Readings from Latin verse masterpieces, Topics vary.

Credit Hours:	3
Max credits per semester:	24
Course Delivery:	Classroom

LATN

Reading and Research[LINK \(http://bulletin.unl.edu/courses/LATN/896\)](http://bulletin.unl.edu/courses/LATN/896)**896****Prereqs:
Permission**

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

LATN

Masters Thesis[LINK \(http://bulletin.unl.edu/courses/LATN/899\)](http://bulletin.unl.edu/courses/LATN/899)**899****Prereqs:
Admission to masters degree program and permission of major adviser**

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

LATN

Seminar in Latin Literature[LINK \(http://bulletin.unl.edu/courses/LATN/941\)](http://bulletin.unl.edu/courses/LATN/941)**941**

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

Ω

Courses for RELG (RELG)

CLAS

Early Christianity[LINK \(http://bulletin.unl.edu/courses/CLAS/307\)](http://bulletin.unl.edu/courses/CLAS/307)**307/807**Crosslisted as *HIST 307/807, RELG 307**Pre-1800 content.*

Life, literature, thought, and institutions of the Christian movement from Jesus to Constantine. A critical, historical approach to the sources in English translation and how they reflect the interaction of Christian, Jew, and pagan in late antiquity. Includes the historical Jesus vis-a-vis the Christ of Faith, the impact of Paul's thought, the formation of Christian dogma, methods of interpreting canonical and extra-canonical Christian literature, the problem of heresy and orthodoxy.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CLAS

Religion of Late Western Antiquity

409/809Crosslisted as *HIST 409/809, RELG 409*[LINK \(http://bulletin.unl.edu/courses/CLAS/409\)](http://bulletin.unl.edu/courses/CLAS/409)*Pre-1800 content.*

Examination of the religious institutions, philosophies, and lifeways of the Hellenistic Age from Alexander to Constantine. Includes civic religion of Greece and Rome, popular religion, mystery cults, Judaism, Christianity, popular and school philosophies (Platonism, Aristotelianism, Epicureanism, Cynicism, Stoicism), Gnosticism. History, interrelationships, emerging world view of these movements.

Credit Hours:	2-3
Course Format:	Lecture
Course Delivery:	Classroom

CLAS

Gnosticism**410/810**Crosslisted as *RELG 410*[LINK \(http://bulletin.unl.edu/courses/CLAS/410\)](http://bulletin.unl.edu/courses/CLAS/410)

Examination of the nature, history, literature, ritual, and impact of the classical Gnostic religions, 100 BCE to 400 CE. Extensive reading of original Gnostic treatises in English translation, with particular attention to their appropriation and transformation of earlier Jewish, Christian, and pagan religious and philosophical traditions. The principal Gnostic schools to be treated are Simonians, Sethians, Valentinians, Hermetics, and Manichaeans.

Credit Hours:	3
Course Delivery:	Classroom

ENGL

Medieval Literature and Theology**489/889**Crosslisted as *RELG 489*[LINK \(http://bulletin.unl.edu/courses/ENGL/489\)](http://bulletin.unl.edu/courses/ENGL/489)

The relationship between significant medieval theologies and primary medieval poets and prose masters.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

HIST

The German Reformation**421/821**Crosslisted as *RELG 421*[LINK \(http://bulletin.unl.edu/courses/HIST/421\)](http://bulletin.unl.edu/courses/HIST/421)

Prereqs:
Junior standing.

Pre-1800 content.

The cultural and intellectual developments of the German Reformation against its social background. The religious and political events of the first half of the sixteenth century. Transition from medieval to modern Christianity. The transmission and revolutionary nature of evangelical doctrines. The gradual institutionalization of the new churches.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	European History, Pre-1800

RELG

Second Temple Judaism**406/806**Crosslisted as *JUDS 406*[LINK \(http://bulletin.unl.edu/courses/RELG/406\)](http://bulletin.unl.edu/courses/RELG/406)

An in-depth study of the literature, history and culture of Judea and the Jews in the Second Temple period, from 550 BCE to 70 CE. Readings include apocalyptic texts, Wisdom literature, and selections from the Dead Sea Scrolls.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Ω

Description**Department Chair: Stephen Burnett, Ph.D.**

See course offerings under the "Courses" tab.

Communication Studies

Courses for COMM (COMM)

COMM 400/800	Rhetorical Theory	LINK (http://bulletin.unl.edu/courses/COMM/400)
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Prereqs:
Junior standing, [COMM 200 \(http://bulletin.unl.edu/courses/COMM/200\)](http://bulletin.unl.edu/courses/COMM/200) and [201 \(http://bulletin.unl.edu/courses/COMM/201\)](http://bulletin.unl.edu/courses/COMM/201), or permission.

Credit Hours:	3
Course Delivery:	Classroom

Major writers, works, and concepts involved in the rhetorical approach to the study of human communication.

COMM 427/827	Instructional Communication Crosslisted as <i>TEAC 429/829</i>	LINK (http://bulletin.unl.edu/courses/COMM/427)
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Prereqs:
Junior/senior standing; College of Education and Human Sciences major; [COMM 200 \(http://bulletin.unl.edu/courses/COMM/200\)](http://bulletin.unl.edu/courses/COMM/200), [201 \(http://bulletin.unl.edu/courses/COMM/201\)](http://bulletin.unl.edu/courses/COMM/201), or permission.

Credit Hours:	3
Course Delivery:	Classroom

Advanced introductory course in instructional communication, focusing on understanding variables associated with the communication process in instructional settings and managing instructional communication more effectively. Provides an experimental and a cognitive understanding of the role of communication in the instructional process.

COMM 485/885	Small Group Communication Theory	LINK (http://bulletin.unl.edu/courses/COMM/485)
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Prereqs:
Junior standing; [COMM 200 \(http://bulletin.unl.edu/courses/COMM/200\)](http://bulletin.unl.edu/courses/COMM/200), [201 \(http://bulletin.unl.edu/courses/COMM/201\)](http://bulletin.unl.edu/courses/COMM/201) and [210 \(http://bulletin.unl.edu/courses/COMM/210\)](http://bulletin.unl.edu/courses/COMM/210), or permission.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Overview of small group communication theory and research centered on how groups and teams are formed and enacted in interaction.

COMM 490/890	Internship in Communication Studies	LINK (http://bulletin.unl.edu/courses/COMM/490)
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Prereqs:
Junior standing and 12 to 15 hrs communication studies courses.

Prerequisites waived for instructor assistants for COMM PSI courses.

Credit Hours:	1-6
Max credits per semester:	6
Course Delivery:	Classroom

Structured professional experience in the field of communication studies outside of the traditional academic setting. Communication problems are confronted not as abstractions, but as specific occurrences with which the student must cope.

COMM 850	Seminar in Gender and Communication	LINK (http://bulletin.unl.edu/courses/COMM/850)
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Relationship between gender and communication. Theories and research on gender and communication, serving as the basis for studying the interrelationships among language, social reality, sex role stereotypes, and cultural values.

Credit Hours: 3

Campus:

Course Delivery: Classroom

COMM
852 **Media and Culture**

[LINK \(http://bulletin.unl.edu/courses/COMM/852\)](http://bulletin.unl.edu/courses/COMM/852)

Prereqs:
[COMM 200 \(http://bulletin.unl.edu/courses/COMM/200\)](http://bulletin.unl.edu/courses/COMM/200) and [201 \(http://bulletin.unl.edu/courses/COMM/201\)](http://bulletin.unl.edu/courses/COMM/201); and permission

Theories of mass media, digital media, and culture as the basis for investigation of human communication in a variety of contexts and activities.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
859 **Human Communication Theory**

[LINK \(http://bulletin.unl.edu/courses/COMM/859\)](http://bulletin.unl.edu/courses/COMM/859)

Evolution of human communication theory as a social science. Major writers, works, and concepts involved in the study of human communicative interaction.

Credit Hours: 3

Campus:

Course Delivery: Classroom

COMM
870 **Interpersonal Communication Theory**

[LINK \(http://bulletin.unl.edu/courses/COMM/870\)](http://bulletin.unl.edu/courses/COMM/870)

Prereqs:
[COMM 200 \(http://bulletin.unl.edu/courses/COMM/200\)](http://bulletin.unl.edu/courses/COMM/200) and [201 \(http://bulletin.unl.edu/courses/COMM/201\)](http://bulletin.unl.edu/courses/COMM/201); and permission

In-depth exploration of interpersonal communication theory and research across contexts. How people interact to create, maintain, and dissolve relationships.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
886 **Organizational Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/886\)](http://bulletin.unl.edu/courses/COMM/886)

Principles and theories relevant to communication behavior within organizations which can be used to guide the way people communicate in organizations.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
887 **Consulting and Training in Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/887\)](http://bulletin.unl.edu/courses/COMM/887)

Research on communication consulting and training. Design of consulting and training programs for use in organizational environments.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
898 **Special Topics**

[LINK \(http://bulletin.unl.edu/courses/COMM/898\)](http://bulletin.unl.edu/courses/COMM/898)

Topic will be announced prior to registration.

Credit Hours: 1-3

Topic varies.

Max credits per degree: 24

Course Format: Lecture

Campus:

Course Delivery: Classroom

COMM **899** Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/COMM/899\)](http://bulletin.unl.edu/courses/COMM/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

COMM **900** Introduction to Graduate Studies in Communication

[LINK \(http://bulletin.unl.edu/courses/COMM/900\)](http://bulletin.unl.edu/courses/COMM/900)

Will be required for all graduate students in communication studies.

Systematic introduction to the discipline of communication studies, focusing upon the various dimensions of scholarship essential to successful pursuit of an advanced degree in communication studies. Function of communication studies research, surveys major research trends of the discipline, examines epistemology from a human communication perspective, and helps to develop writing and research skills.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM **911A** Classical Rhetoric

[LINK \(http://bulletin.unl.edu/courses/COMM/911A\)](http://bulletin.unl.edu/courses/COMM/911A)

Prereqs:
Permission

In-depth study of the evolution of rhetorical theory from its origin to St. Augustine, with emphasis on rhetorical theory in Classical Greece and Rome.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM **911B** Modern Rhetoric

[LINK \(http://bulletin.unl.edu/courses/COMM/911B\)](http://bulletin.unl.edu/courses/COMM/911B)

Prereqs:
Permission

In-depth study of the evolution of rhetorical theory from the middle ages through the modern period, with emphasis on eighteenth- and nineteenth-century British rhetorical thought.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM **911D** Contemporary Rhetoric

[LINK \(http://bulletin.unl.edu/courses/COMM/911D\)](http://bulletin.unl.edu/courses/COMM/911D)

Prereqs:
Permission

In-depth study of the development of rhetorical theory in the twentieth century.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM **927A** Seminar in Instructional Communication

[LINK \(http://bulletin.unl.edu/courses/COMM/927A\)](http://bulletin.unl.edu/courses/COMM/927A)

Literature and research pertaining to the basic psychological concepts, principles, and communication skills employed in effective instruction. Communication as it applies to instruction by studying and applying theories of learning and communication to instructional contexts.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

COMM **927B** **Seminar in Instructional Communication Research**

[LINK \(http://bulletin.unl.edu/courses/COMM/927B\)](http://bulletin.unl.edu/courses/COMM/927B)

Review and analyze the seminal and current research related to communication in instructional contexts. Foundation for developing theory and generating original research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

COMM **927D** **Current Issues in Instructional Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/927D\)](http://bulletin.unl.edu/courses/COMM/927D)

Investigation of current topics in instructional communication and speech communication education. Specific content depends on the semester the course is offered and the research interests of the instructor assigned.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

COMM **950D** **Special Topics in Rhetoric and Public Culture**

[LINK \(http://bulletin.unl.edu/courses/COMM/950D\)](http://bulletin.unl.edu/courses/COMM/950D)

Prereqs:
Permission

Investigation of current topics in the research on the relationship between cultural processes and human communication.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

COMM **953** **Seminar in Political Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/953\)](http://bulletin.unl.edu/courses/COMM/953)

In-depth study of the influences of communication behavior on political events. Communication within political campaigns and governmental processes.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

COMM **970A** **Seminar in Interpersonal Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/970A\)](http://bulletin.unl.edu/courses/COMM/970A)

Fundamental concepts, theories, and research in interpersonal communication. Selected problems and contemporary research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

COMM **970B** **Seminar in Family Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/970B\)](http://bulletin.unl.edu/courses/COMM/970B)

Concepts, theories, and research in family communication. Selected problems and contemporary research across a variety of family contexts.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
970D **Current Research in Interpersonal Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/970D\)](http://bulletin.unl.edu/courses/COMM/970D)

Surveys current research in interpersonal communication. Issues, direction and methodology in interpersonal communication.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
981 **Rhetorical Criticism**

[LINK \(http://bulletin.unl.edu/courses/COMM/981\)](http://bulletin.unl.edu/courses/COMM/981)

Advanced course in rhetorical criticism and textual analysis. Designing and conducting an in-depth research project from a critical perspective.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
983 **Advanced Experimental Research**

[LINK \(http://bulletin.unl.edu/courses/COMM/983\)](http://bulletin.unl.edu/courses/COMM/983)

Experimental designs with an emphasis on assessing strengths and limitations of the various approaches. Individual research projects are planned, conducted, and reported.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
984 **Interpretive Research Design**

[LINK \(http://bulletin.unl.edu/courses/COMM/984\)](http://bulletin.unl.edu/courses/COMM/984)

Theory and practice of interpretive research methodologies and methods. Individual and/or group research projects are planned, conducted, and reported.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
985 **Cultural Criticism**

[LINK \(http://bulletin.unl.edu/courses/COMM/985\)](http://bulletin.unl.edu/courses/COMM/985)

Advanced course focusing on the critical analysis of cultural artifacts, especially upon the relationship of media, language, and culture. Designing and conducting a research project from a cultural studies perspective.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
986A **Perspectives in Organizational Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/986A\)](http://bulletin.unl.edu/courses/COMM/986A)

Perspectives in organizational communication range from a system-cultural-applied orientation to that of the paradigmatic. Various orientations, strengths and weaknesses of each, and looks at empirical and theoretical research representative of these views.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
986B **Problems and Issues in Organizational Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/986B\)](http://bulletin.unl.edu/courses/COMM/986B)

Basic issues in the study of organizational communication range from differences in the structure of the organization itself to differences in the task activities of work units. How such differences influence the communication behavior of those involved.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
986D **Current Research in Organizational Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/986D\)](http://bulletin.unl.edu/courses/COMM/986D)

Current research in organizational communication over a two-year period. Emphasis on issues studied, the focus organizational communication research takes, and the methodology employed.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

COMM
996 **Research Problems Other Than Thesis**

[LINK \(http://bulletin.unl.edu/courses/COMM/996\)](http://bulletin.unl.edu/courses/COMM/996)

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

COMM
998 **Special Topics in Communication Studies**

[LINK \(http://bulletin.unl.edu/courses/COMM/998\)](http://bulletin.unl.edu/courses/COMM/998)

Special topics in communication studies.

Credit Hours: 1-24

Course Format: Lecture

Campus:

Course Delivery: Classroom

COMM
999 **Doctoral Dissertation**

[LINK \(http://bulletin.unl.edu/courses/COMM/999\)](http://bulletin.unl.edu/courses/COMM/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

POLS
430/830 **Political Communication**

Crosslisted as *COMM 430/830*

[LINK \(http://bulletin.unl.edu/courses/POLS/430\)](http://bulletin.unl.edu/courses/POLS/430)

Prereqs:
12 hrs communication studies, including [COMM 130](#)

Credit Hours: 3

Course Delivery: Classroom

<http://bulletin.unl.edu/courses/COMM/130>) or permission.

Role of communication in the political process, with emphasis on communication strategies in political campaigns. Includes communication variables important in the political process, an application of communication theory and principles to political rhetoric, and analysis and criticism of selected political communication events.

Groups:	American Government, Politics and Law
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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/CommunicationStudies). (<http://www.unl.edu/gradstudies/prospective/programs/CommunicationStudies>)

Department Chair: Dawn O. Braithwaite, Ph.D.

The Department of Communication Studies offers the MA and PhD degrees in three areas of concentration: interpersonal and family communication; organizational communication; and rhetoric and culture. The department also offers an interdisciplinary MA specialization in marketing, communication studies, and advertising.

The department's graduate degree programs are designed to provide an advanced understanding of the scholarly traditions in communication studies; to train students in both social-scientific and humanistic research approaches in order to create proficiency in historical/critical, quantitative, and interpretive/qualitative methods; to develop competent investigators capable of producing communication scholarship of the highest quality; and to foster the creation of teacher-scholars and practitioner-researchers who respect the discipline's pluralism and follow the highest standards of ethical conduct.

Master of Arts Degree.

Students pursuing masters degrees with a major in communication studies must have completed an undergraduate major of at least 30 hours in communication studies, or have had equivalent preparation. The Department also offers a specialization in marketing, communication studies, and advertising. This is an Option III program. The program consists of a major--a minimum of 18 hours in communication studies and two minors of 9 hours--one in advertising and one in marketing. Eighteen hours of the program are specified courses which includes 6 hours from each of the following three departments: communication studies, marketing, and advertising. There is also an 8-hour comprehensive exam of which 5 hours can be waived if the student has a 3.25 GPA or higher in all courses taken in the specialization.

Doctor of Philosophy Degree.

Applicants for this degree have met the minimum requirements for the masters degree. The student must take such qualifying examinations as may be prescribed by the department. General requirements of the Graduate College also apply. Two research tools are required for the PhD degree. This requirement may be met by any combination of the methods described in this bulletin, see , and the department's "Graduate Studies Handbook for the Doctor of Philosophy Degree" under Research Methodology Requirements.

Approved Specializations:

Great Plains Studies (MA and PhD); Marketing, Communication and Advertising (MA only); Women's and Gender Studies (MA and PhD)

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/CommunicationStudies). (<http://www.unl.edu/gradstudies/prospective/programs/CommunicationStudies>)

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Community and Regional Planning

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Courses for CRPL (CRPL)

AGRO 475/875	Water Quality Strategy	LINK (http://bulletin.unl.edu/courses/AGRO/475)
	Crosslisted as <i>POLS 475/875, SOCI 475/875, GEOL 475/875, CIVE 475/875, SOIL 475, NRES 475/875, WATS 475, MSYM 475/875, CRPL 475/875</i>	

Prereqs:
Senior standing or permission.

Capstone course.

Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

present strategies.

AGRO

489/889

Urbanization of Rural Landscapes

Crosslisted as *HORT 489/889, CRPL 489/889*

[LINK \(http://bulletin.unl.edu/courses/AGRO/489\)](http://bulletin.unl.edu/courses/AGRO/489)

Prereqs:

Senior standing, graduate standing, or permission.

Development converts rural landscapes into housing, roads, malls, parks, and commercial uses. This process fragments landscapes and changes ecosystem functions, drives up land prices, and pushes agriculture into more marginal areas. This multi-disciplinary, experiential course guides students in learning about the urbanization process, the impacts on landscapes, people, and the community, and the choices that are available to informed citizens.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ARCH

560/860

Environmental Survey and Analysis

Crosslisted as *CRPL 872*

[LINK \(http://bulletin.unl.edu/courses/ARCH/560\)](http://bulletin.unl.edu/courses/ARCH/560)

Prereqs:

Permission

This course is a prerequisite for: [ARCH 561 \(http://bulletin.unl.edu/courses/ARCH/561\)](http://bulletin.unl.edu/courses/ARCH/561)

Comprehensive review of contemporary methods and theories of environmental survey and analysis in the fields of landscape architecture, regional planning, conservation, and related areas, with emphasis on interrelationships between human and natural systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CRPL

400/800

Introduction to Planning

[LINK \(http://bulletin.unl.edu/courses/CRPL/400\)](http://bulletin.unl.edu/courses/CRPL/400)

This course is a prerequisite for: [CRPL 415 \(http://bulletin.unl.edu/courses/CRPL/415\)](http://bulletin.unl.edu/courses/CRPL/415)

Field of community and regional planning introduced and studied in relation to the history of cities, urbanization, and regionalization. Origins and evolution of American urban and regional planning practice. The planning process as a response to social, political, physical, and economic factors is analyzed. Introduces the community comprehensive planning process, plan implementation, and functional areas of planning.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
ACE Outcomes:	8 [?]

CRPL

415/815

Housing, Renewal, and Development

[LINK \(http://bulletin.unl.edu/courses/CRPL/415\)](http://bulletin.unl.edu/courses/CRPL/415)

Prereqs:

[CRPL 400 \(http://bulletin.unl.edu/courses/CRPL/400\)](http://bulletin.unl.edu/courses/CRPL/400) / [800 \(http://bulletin.unl.edu/courses/CRPL/800\)](http://bulletin.unl.edu/courses/CRPL/800) parallel.

Comprehensive analysis of public policies and programs for housing, urban renewal, and large-scale development and a consideration of their social, political, and environmental implications at the neighborhood, community, and regional scale. Formulation of housing and renewal policy and programs as a part of the community and regional planning process and related regulation and stimulation efforts, and to the design, construction, and marketing processes as they affect or are affected by public housing policies and the private sector. The methodology, processes, results, problems, and changing nature of the federal urban renewal program considered in detail.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CRPL

420/820

Grant Writing and Fund-raising

[LINK \(http://bulletin.unl.edu/courses/CRPL/420\)](http://bulletin.unl.edu/courses/CRPL/420)

Prereqs:
Senior standing.

Introduces and familiarizes the student with the theory and practice of fund-raising and grant writing. Overview of the principles and concepts of philanthropy and the basic issues of fund-raising. Skills of writing a case statement, conducting a donor search and analysis, designing a fund-raising vehicle, and writing grant applications in "real world" situations.

Credit Hours:	3
Course Delivery:	Classroom

CRPL

431/831

Computer Graphics Applications in Physical and Environmental Planning <http://bulletin.unl.edu/courses/CRPL/431>

Opportunity for acquiring skill and working experience in the use of microcomputer- and minicomputer-based CADD systems as applied to physical and environmental planning, urban design, and computer cartography. Productive techniques of using CADD equipment and software to perform site planning, mapping, site analysis, and site selection tasks.

Credit Hours:	3
Course Delivery:	Classroom

CRPL

450/850

Social Planning and Policy [LINK \(http://bulletin.unl.edu/courses/CRPL/450\)](http://bulletin.unl.edu/courses/CRPL/450)

Prereqs:
Senior standing.

Social planning and policy introduced and studied through a historical presentation of US social welfare policy, an exploration of models and methods utilized by government and human service agencies in the planning of social programs, and an analysis of contemporary social policy issues. Includes privatization, universalism vs. selectivity, race and ethnicity, homelessness, and poverty.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CRPL

460/860

Planning and Design in the Built Environment [LINK \(http://bulletin.unl.edu/courses/CRPL/460\)](http://bulletin.unl.edu/courses/CRPL/460)

Prereqs:
Senior standing.

Introduces principles and practices of planning, design, and implementation for multiple-structure built environments. Influences of physical, social, environmental, and economic factors upon planned and designed environments. Various planning and design methods, processes, and products introduced. Means of project implementation explored, and examples of existing and proposed projects studied.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CRPL

470/870

Environmental Planning and Policy [LINK \(http://bulletin.unl.edu/courses/CRPL/470\)](http://bulletin.unl.edu/courses/CRPL/470)

Prereqs:
Senior standing.

Introduces environmental planning, including its history and origins. Major environmental issues throughout the world, and the roles of planning in addressing these problems. Environmental planning process and environmental legislation.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CRPL

477/877

Recreation and Park Planning [LINK \(http://bulletin.unl.edu/courses/CRPL/477\)](http://bulletin.unl.edu/courses/CRPL/477)

Prereqs:
Senior standing.

Exploration, analysis, and application of recreation and park planning principles and practices. An understanding of park planning at the local, regional, and national level developed.

Credit Hours:	3
Course Delivery:	Classroom

CRPL **Economic Development Planning**

480/880

[LINK \(http://bulletin.unl.edu/courses/CRPL/480\)](http://bulletin.unl.edu/courses/CRPL/480)

Prereqs:
Senior standing.

Introduces the theory and principles of economic development planning. Concepts, analytical approaches, and theories of economic growth of local communities introduced. Consideration of local economic development plans for small communities. International perspectives of economic development.

Credit Hours:	3
Course Delivery:	Classroom

CRPL **Selected Topics in Community and Regional Planning**

495/895

[LINK \(http://bulletin.unl.edu/courses/CRPL/495\)](http://bulletin.unl.edu/courses/CRPL/495)

Prereqs:
Senior standing.

Aspects of community and regional planning not covered elsewhere in the curriculum are presented as the need arises.

Credit Hours:	1-9
Max credits per degree:	9
Course Delivery:	Classroom

CRPL **Special Problems in Community and Regional Planning**

496/896

[LINK \(http://bulletin.unl.edu/courses/CRPL/496\)](http://bulletin.unl.edu/courses/CRPL/496)

Prereqs:
Senior standing and permission.

Individual or group investigations of problems relating to community and regional planning.

Credit Hours:	1-6
Max credits per degree:	9
Course Delivery:	Classroom

CRPL **Planning Theory**

802

[LINK \(http://bulletin.unl.edu/courses/CRPL/802\)](http://bulletin.unl.edu/courses/CRPL/802)

Prereqs:
or parallel: CRPL 800 (<http://bulletin.unl.edu/courses/CRPL/800>)

Linkages between knowledge and organized action in planning practice are analyzed in terms of philosophical underpinnings, decision theory, programming, policy formulation, politics, goals, values, and social change. Historical traditions of contemporary planning theory. The identities, roles, and relationships of planners with society.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CRPL **Legal Aspects of Planning**

804

[LINK \(http://bulletin.unl.edu/courses/CRPL/804\)](http://bulletin.unl.edu/courses/CRPL/804)

Prereqs:
or parallel: CRPL 800 (<http://bulletin.unl.edu/courses/CRPL/800>) or permission

Applications of constitutional, common, administrative, and statutory law in the planning process are studied. Roles of the branches of American government in the regulation and control of land use and development, as

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

well as in the planning, development, and delivery of public services and facilities. Legal theories, issues, cases, and applications relevant to professional planning practice, as well as the legal responsibilities of participants in the planning process.

CRPL

810

Qualitative Techniques for Planners

[LINK \(http://bulletin.unl.edu/courses/CRPL/810\)](http://bulletin.unl.edu/courses/CRPL/810)

Applied qualitative research techniques. Interpret verbal data generated by the community. Organize, categorize, and analyze the words (data) into critical empirical comparable units of analysis. Optimize "active" listening skills; techniques to incorporate qualitative community concerns into the planning process; and epistemological insights on how to combine data obtained from divergent research methods into a single research project.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CRPL

830

Planning with GIS

[LINK \(http://bulletin.unl.edu/courses/CRPL/830\)](http://bulletin.unl.edu/courses/CRPL/830)

Prereqs:

Admission to the MCRP program or permission

Theory and practice of geographic information systems use in planning. Selection and use of computer software and data for problem solving and decision making in community and regional planning. Specific planning-related applications of geographic information systems, spreadsheet modeling, and data base management.

Credit Hours: 3

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

CRPL

840

Planning Methods and Analysis

[LINK \(http://bulletin.unl.edu/courses/CRPL/840\)](http://bulletin.unl.edu/courses/CRPL/840)

Prereqs:

Principles of statistics course; [CRPL 800 \(http://bulletin.unl.edu/courses/CRPL/800\)](http://bulletin.unl.edu/courses/CRPL/800); CRPL *830; community and regional planning major

Analytical methods and techniques for research, problem solving, and decision making are studied and applied within the context of the planning process. Statistical analyses; forecasting methods; optimization techniques; models and simulation techniques; and methods of demographic, economic, land use, and policy analyses are studied in relation to community and regional planning.

Credit Hours: 3

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

CRPL

881

Planning in Developing Countries

[LINK \(http://bulletin.unl.edu/courses/CRPL/881\)](http://bulletin.unl.edu/courses/CRPL/881)

Introduction to the comparative study of urbanization and planning in developing countries. Social, economic, and spatial organization of Third World cities, including international trends, theories of development, life in these cities, and how the people and governments of Third World countries attempt to cope with their problems and plan for a better future.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CRPL

890

Professional Seminar

[LINK \(http://bulletin.unl.edu/courses/CRPL/890\)](http://bulletin.unl.edu/courses/CRPL/890)

Prereqs:

Community and regional planning major

Diverse issues relating to contemporary professional planning practice are studied through abbreviated case studies and presentations by visiting

Credit Hours: 1

Campus:

Course Delivery: Classroom

specialists and participants in the planning process. Interrelated social, economic, political, and physical factors affecting specific planning situations. Current and emerging roles for professional planners.

CRPL

897

Planning Internship

[LINK \(http://bulletin.unl.edu/courses/CRPL/897\)](http://bulletin.unl.edu/courses/CRPL/897)

Prereqs:
Community and regional planning major and permission

Supervised practical experience in a planning-related organization.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

CRPL

898

Professional Project

[LINK \(http://bulletin.unl.edu/courses/CRPL/898\)](http://bulletin.unl.edu/courses/CRPL/898)

Prereqs:
MCRP degree candidate and permission of department graduate committee

Professional project is a non-thesis culmination of the MCRP degree program. The professional project emulates professional planning practice and is pursued individually by the student with supervision by a faculty advisory committee.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

CRPL

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/CRPL/899\)](http://bulletin.unl.edu/courses/CRPL/899)

Prereqs:
Admission to MCRP degree program and permission of major adviser

Credit Hours:	6
Campus:	
Course Delivery:	Classroom

CRPL

900

Professional Planning Practice

[LINK \(http://bulletin.unl.edu/courses/CRPL/900\)](http://bulletin.unl.edu/courses/CRPL/900)

Prereqs:
or parallel: [CRPL 800 \(http://bulletin.unl.edu/courses/CRPL/800\)](http://bulletin.unl.edu/courses/CRPL/800)

Current concepts, ideas, and issues relating to professional planning practice are studied. Contexts of planning practice, the professional planner's relationship to society, ethics in professional planning practice, and political and organizational behavior in plan making and policy implementation. Roles of citizens, client groups, and consultants in the planning process. Forms of collaborative problem solving, including mediation and negotiation. Planning office and project management issues and approaches, including personnel administration and project financing and budgeting.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

CRPL

913

Planning and the Natural Environment

[LINK \(http://bulletin.unl.edu/courses/CRPL/913\)](http://bulletin.unl.edu/courses/CRPL/913)

Prereqs:
[CRPL 800 \(http://bulletin.unl.edu/courses/CRPL/800\)](http://bulletin.unl.edu/courses/CRPL/800) or permission

Occasional field trips and practical exercises. Interdisciplinary examinations of regional ecological problems and consideration of the theories, principles, techniques, and strategies utilized in planning for the conservation and development of the natural environment. Ecological emphasis with case studies of environmental deterioration and suggested or implemented solutions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Prereqs:

CRPL 800 (<http://bulletin.unl.edu/courses/CRPL/800>), *830, *840; MCRP degree candidate

Application and synthesis of multi-disciplinary philosophies, theories, methods, analyses, and techniques of planning in the context of contemporary complex planning projects. Individual and team approaches pursued in specific project contexts for survey research, definition of research questions and hypotheses, analyses, creative problem solving, formulation and evaluation of alternatives, plan making, and development of implementation strategies.

Credit Hours:	3
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

[Q](#)

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/CommunityAndRegionalPlanning). (<http://www.unl.edu/gradstudies/prospective/programs/CommunityAndRegionalPlanning>)

Program Director: Kim Wilson

Graduate Committee: Professors Scholz (chair), Mutunayagam; Associate Professor Cantarero; Assistant Professors Nam, Tang

Application for Admission.

Applications for admission to the MCRP degree program must include the following: 1) Application for Admission to the Graduate College form, submitted to the Office of Graduate Studies; 2) two official copies of all college transcripts, submitted to the Office of Graduate Studies; 3) official score report for the Graduate Record Exam General Test, submitted to the Office of Graduate Studies; 4) three letters of recommendation on standard Graduate Studies forms, submitted to the program office; and 5) an essay responding to program application questions, submitted to the program office.

Applications are accepted for admission in fall and spring semesters, as well as summer sessions.

Degree Program.

The master of community and regional planning (MCRP) degree program provides preparation for professional planning practice in the public, private, and nonprofit sectors.

Planning is an interdisciplinary problem-solving profession that influences a broad range of future-oriented decision making. Planners work with individuals, groups, and organizations to formulate plans, policies, and strategies through which desired change can be achieved. Planners utilize a wide variety of methods and techniques to identify problems and needs and to formulate plans of action that effectively address those needs. Planners often need to accommodate differing viewpoints in the process of formulating desirable and compatible plan and policy recommendations.

The MCRP degree program emphasizes understanding of the importance and interrelationships among human resources, natural resources, sociocultural characteristics, economic activity, political and institutional roles, and characteristics of the natural and built environment. The program provides students with a sound foundation in planning theory, methods, process, and application—a background which enables graduates to formulate, initiate, and coordinate a broad range of planning and development actions.

Students with diverse undergraduate, graduate, and professional backgrounds are encouraged to enter the MCRP degree program. No prior course work in planning is required.

The MCRP degree program requires completion of 48 graduate credit hours, 24 of which are in the following required core courses:

- 800. Introduction to Planning (3 cr)
- 802. Planning Theory (3 cr)
- 804. Legal Aspects of Planning (3 cr)
- 810. Qualitative Techniques for Planners (3 cr)
- 830. Planning with GIS (3 cr)
- 840. Planning Methods and Analysis (3 cr)
- 900. Professional Planning Practice (3 cr)
- 990. Planning Studio (3 cr)

Each student consults with a faculty adviser in the MCRP program to select elective courses within and outside the program that will help the student achieve his or her academic and professional goals. Students are encouraged to select at least 9 credit hours of course work in an area of concentration defined in consultation with their faculty advisors.

Each student must pursue one of three possible completion tracks for the MCRP degree: 1) 6-credit-hour masters thesis and oral examination; 2) 6-credit-hour professional project and oral examination; or 3) comprehensive written examination and oral examination. The program schedules the written comprehensive examination for track 3 typically no more than once each semester.

Dual Degree Programs.

The MCRP degree may be pursued within three dual degree programs at the University of Nebraska–Lincoln:

The MCRP/JD dual degree program is offered in collaboration with the College of Law. This program enables completion of both the MCRP degree and the juris doctor degree in a four–year period.

The MCRP/MArch dual degree program is offered in collaboration with the architecture program in the College of Architecture. This program enables completion of both the MCRP degree and the master of architecture degree in a three–year period. This program is intended for persons who hold the bachelor of science in design (BSD) or equivalent undergraduate degree.

The MCRP/MS in civil engineering, with a transportation engineering emphasis, is intended for persons holding the bachelor of science in civil engineering degree.

Persons interested in the MCRP/JD, MCRP/MArch or MCRP/MS (transportation engineering) dual degree programs should inquire with the Community and Regional Planning program director.

Interdepartmental Programs.

The MCRP program cooperates with other disciplines in offering courses for the Environmental Studies Interdepartmental Area, the Great Plains Studies Interdepartmental Area, and the Water Resources Planning and Management Interdepartmental Area. See "Environmental Studies," "Great Plains Studies," and "Water Resources Planning and Management" sections for separate descriptions of these interdepartmental programs.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/CommunityAndRegionalPlanning). (<http://www.unl.edu/gradstudies/prospective/programs/CommunityAndRegionalPlanning>)

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Computer and Electronics Engineering

Ω

Courses for CEEN (CEEN)

CEEN 424/824/4240	Digital Signal Processing	LINK (http://bulletin.unl.edu/courses/CEEN/424)
Prereqs: CEEN 355 (http://bulletin.unl.edu/courses/CEEN/355) or (UNO) CEEN 3550 (http://bulletin.unl.edu/courses/CEEN/3550) .		
This course is a prerequisite for: CEEN 926 (http://bulletin.unl.edu/courses/CEEN/926)		
The temporal and spectral analysis of digital signals and systems, the design of digital filters and systems, and advanced systems including multi–rate digital signal processing techniques.		
CEEN 433/833/4330/8336	Microprocessor System Design	LINK (http://bulletin.unl.edu/courses/CEEN/433)
Prereqs: CEEN 310 (http://bulletin.unl.edu/courses/CEEN/310) or (UNO) 3100; CEEN 328 (http://bulletin.unl.edu/courses/CEEN/328) or (UNO) CEEN 3280 (http://bulletin.unl.edu/courses/CEEN/3280) , or parallel.		
This course is a prerequisite for: CEEN 436 (http://bulletin.unl.edu/courses/CEEN/436)		
Microprocessor based systems: architecture; design; and interfacing. Hardware topics: memory design; input/output ports; serial communications; and interrupts. Software topics: generating <i>assembly ROM</i> code; <i>assembly/C firmware</i> generation; and designing device drivers.		

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Campus:	UNO
Course Delivery:	Classroom

CEEN	Embedded Microcontroller Design	LINK (http://bulletin.unl.edu/courses/CEEN/436)
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436/836/4360/8366

Prereqs:

[CEEN 433](http://bulletin.unl.edu/courses/CEEN/433) (<http://bulletin.unl.edu/courses/CEEN/433>)/[833](http://bulletin.unl.edu/courses/CEEN/833) (<http://bulletin.unl.edu/courses/CEEN/833>) or (UNO) [CEEN 4330](http://bulletin.unl.edu/courses/CEEN/4330) (<http://bulletin.unl.edu/courses/CEEN/4330>)/[8336](http://bulletin.unl.edu/courses/CEEN/8336) (<http://bulletin.unl.edu/courses/CEEN/8336>); [STAT/MATH 380](http://bulletin.unl.edu/courses/MATH/380) (<http://bulletin.unl.edu/courses/MATH/380>) or (UNO) [STAT 3800](http://bulletin.unl.edu/courses/STAT/3800) (<http://bulletin.unl.edu/courses/STAT/3800>); [CSCE 451](http://bulletin.unl.edu/courses/CSCE/451) (<http://bulletin.unl.edu/courses/CSCE/451>)/[851](http://bulletin.unl.edu/courses/CSCE/851) (<http://bulletin.unl.edu/courses/CSCE/851>) or (UNO) [CSCI 4500](http://bulletin.unl.edu/courses/CSCI/4500) (<http://bulletin.unl.edu/courses/CSCI/4500>), or parallel.

This course is a prerequisite for: [CEEN 437](http://bulletin.unl.edu/courses/CEEN/437) (<http://bulletin.unl.edu/courses/CEEN/437>)

Microcontroller architecture: design, programming, and interfacing for embedded systems. Timing issues, memory interfaces, serial and parallel interfacing, and functions for common microcontrollers.

CEEN

Parallel and Distributed Processing

[LINK \(http://bulletin.unl.edu/courses/CEEN/437\)](http://bulletin.unl.edu/courses/CEEN/437)

437/837/4370

Prereqs:

[CEEN 436](http://bulletin.unl.edu/courses/CEEN/436) (<http://bulletin.unl.edu/courses/CEEN/436>)/[836](http://bulletin.unl.edu/courses/CEEN/836) (<http://bulletin.unl.edu/courses/CEEN/836>) or (UNO) [CEEN 4360](http://bulletin.unl.edu/courses/CEEN/4360) (<http://bulletin.unl.edu/courses/CEEN/4360>)/[8360](http://bulletin.unl.edu/courses/CEEN/8360) (<http://bulletin.unl.edu/courses/CEEN/8360>).

Parallel and distributed processing concepts, principles, techniques, and machines.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CEEN

Introduction to VLSI System Design

[LINK \(http://bulletin.unl.edu/courses/CEEN/451\)](http://bulletin.unl.edu/courses/CEEN/451)

451/851/4510

Prereqs:

[CEEN 310](http://bulletin.unl.edu/courses/CEEN/310) (<http://bulletin.unl.edu/courses/CEEN/310>) or (UNO) [CEEN 3100](http://bulletin.unl.edu/courses/CEEN/3100) (<http://bulletin.unl.edu/courses/CEEN/3100>).

The concepts, principles, and methodology at all levels of digital VLSI system design and focused on gate-level VLSI implementation.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CEEN

Introduction to Computer-Aided Digital Design

[LINK \(http://bulletin.unl.edu/courses/CEEN/452\)](http://bulletin.unl.edu/courses/CEEN/452)

452/852/4520

Prereqs:

[CEEN 310](http://bulletin.unl.edu/courses/CEEN/310) (<http://bulletin.unl.edu/courses/CEEN/310>) or (UNO) [CEEN 3100](http://bulletin.unl.edu/courses/CEEN/3100) (<http://bulletin.unl.edu/courses/CEEN/3100>).

The concepts, simulation techniques and methodology in computer-aided digital design at system and logic levels.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CEEN

Telecommunications Engineering I

[LINK \(http://bulletin.unl.edu/courses/CEEN/466\)](http://bulletin.unl.edu/courses/CEEN/466)

466/866/4660

Prereqs:

[CEEN 361](http://bulletin.unl.edu/courses/CEEN/361) (<http://bulletin.unl.edu/courses/CEEN/361>) or (UNO) [CEEN 3610](http://bulletin.unl.edu/courses/CEEN/3610) (<http://bulletin.unl.edu/courses/CEEN/3610>); [CEEN 463](http://bulletin.unl.edu/courses/CEEN/463) (<http://bulletin.unl.edu/courses/CEEN/463>)/[863](http://bulletin.unl.edu/courses/CEEN/863) (<http://bulletin.unl.edu/courses/CEEN/863>) or (UNO) [CEEN 4630](http://bulletin.unl.edu/courses/CEEN/4630) (<http://bulletin.unl.edu/courses/CEEN/4630>)/[8630](http://bulletin.unl.edu/courses/CEEN/8630) (<http://bulletin.unl.edu/courses/CEEN/8630>).

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Campus:	UNO
Course Delivery:	Classroom

<http://bulletin.unl.edu/courses/CEEN/8630>, or parallel.

Standard telecommunications protocols, architecture of long distance integrated data networks, local area networks, wide area networks, radio and satellite networks. Network management, internetworking, system modeling and performance analysis.

CEEN

Computer Communication Networks

[LINK \(http://bulletin.unl.edu/courses/CEEN/471\)](http://bulletin.unl.edu/courses/CEEN/471)

471/871/4710

Prereqs:

[CEEN 325 \(http://bulletin.unl.edu/courses/CEEN/325\)](http://bulletin.unl.edu/courses/CEEN/325) or (UNO) [CEEN 3250 \(http://bulletin.unl.edu/courses/CEEN/3250\)](http://bulletin.unl.edu/courses/CEEN/3250).

High-speed access control protocols, routing protocols, traffic management, and network topologies. Giga-bit Ethernet, ATM, and TCP/IP. Performance modeling and simulation techniques.

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Campus:	UNO
Course Delivery:	Classroom

CEEN

Mobile and Personal Communications

[LINK \(http://bulletin.unl.edu/courses/CEEN/473\)](http://bulletin.unl.edu/courses/CEEN/473)

473/873/4730

Prereqs:

[CEEN 325 \(http://bulletin.unl.edu/courses/CEEN/325\)](http://bulletin.unl.edu/courses/CEEN/325) or (UNO) [CEEN 3250 \(http://bulletin.unl.edu/courses/CEEN/3250\)](http://bulletin.unl.edu/courses/CEEN/3250).

Concepts on mobile and personal communications. Modulation techniques for mobile radio, equalization, diversity, channel coding, and speech coding.

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Campus:	UNO
Course Delivery:	Classroom

CEEN

Satellite Communications

[LINK \(http://bulletin.unl.edu/courses/CEEN/475\)](http://bulletin.unl.edu/courses/CEEN/475)

475/875/4750

Prereqs:

[CEEN 325 \(http://bulletin.unl.edu/courses/CEEN/325\)](http://bulletin.unl.edu/courses/CEEN/325) OR (UNO) [CEEN 3250 \(http://bulletin.unl.edu/courses/CEEN/3250\)](http://bulletin.unl.edu/courses/CEEN/3250).

The fundamental concepts of satellite communications. Orbits, launching satellites, modulation and multiplexing, multiple access, earth stations, coding, interference and special problems in satellite communications.

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Campus:	UNO
Course Delivery:	Classroom

CEEN

Wireless Communications

[LINK \(http://bulletin.unl.edu/courses/CEEN/476\)](http://bulletin.unl.edu/courses/CEEN/476)

476/876/4760

Prereqs:

Permission.

This course is a prerequisite for: [CEEN 926 \(http://bulletin.unl.edu/courses/CEEN/926\)](http://bulletin.unl.edu/courses/CEEN/926), [CEEN 977 \(http://bulletin.unl.edu/courses/CEEN/977\)](http://bulletin.unl.edu/courses/CEEN/977)

The fundamental concepts of wireless communications. Basic communications concepts such as multiple access and spectrum. Propagation, radio standards and internetworking. Current issues in wireless communications.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CEEN

Optical Fiber Communications

[LINK \(http://bulletin.unl.edu/courses/CEEN/479\)](http://bulletin.unl.edu/courses/CEEN/479)

479/879/4790

Prereqs:

[CEEN 463 \(http://bulletin.unl.edu/courses/CEEN/463\)](http://bulletin.unl.edu/courses/CEEN/463)/[863 \(http://bulletin.unl.edu/courses/CEEN/863\)](http://bulletin.unl.edu/courses/CEEN/863) or (UNO) [CEEN 4630 \(http://bulletin.unl.edu/courses/CEEN/4630\)](http://bulletin.unl.edu/courses/CEEN/4630)

Credit Hours:	4
Course Format:	Lecture 3, Lab 3

<http://bulletin.unl.edu/courses/CEEN/4630/> / 8630
<http://bulletin.unl.edu/courses/CEEN/8630/>.

Fundamentals of lightwave communication in optical fiber waveguides, physical description of fiber optic systems. Properties of the optical fiber and fiber components. Electro-optic devices: light sources and modulators, detectors and amplifiers; optical transmitter and receiver systems. Fiber optic link design and specification; fiber optic networks.

Campus: UNO

Course Delivery: Classroom

CEEN

482/882

Antennas and Radio Propagation for Wireless Communications [LINK \(http://bulletin.unl.edu/courses/CEEN/482\)](http://bulletin.unl.edu/courses/CEEN/482)

Prereqs:

CEEN 328 (<http://bulletin.unl.edu/courses/CEEN/328/>) or (UNO) 3280.

Fundamental theory of antennas and radio propagation for wireless communications. Basic antenna characteristics and various antennas and antenna arrays. Basic propagation mechanisms and various channel models, such as Friis free space model, Hata model, lognormal distribution, and multipath model. Includes practical antenna design for high radio frequency (RF) with modeling software tools such as Numerical Electromagnetic Code (NEC) and Advanced Design System (ADS). Design projects will be assigned as the main part of course.

Credit Hours: 4

Course Format: Lab 3, Lecture 3

Campus: UNO

Course Delivery: Classroom

CEEN

484/884

Network Security [LINK \(http://bulletin.unl.edu/courses/CEEN/484\)](http://bulletin.unl.edu/courses/CEEN/484)

Prereqs:

CEEN 325 (<http://bulletin.unl.edu/courses/CEEN/325/>) or (UNO) 3250.

Network security and cryptographic protocols. Classical encryption techniques, block ciphers and stream cyphers, public-key cryptography, authentications digital signatures, key management and distributions, network vulnerabilities, transport-level security, IP security.

Credit Hours: 3

Course Format: Lecture 3

Campus: UNO

Course Delivery: Classroom

CEEN

488/888

Wireless Security [LINK \(http://bulletin.unl.edu/courses/CEEN/488\)](http://bulletin.unl.edu/courses/CEEN/488)

Prereqs:

CEEN 325 (<http://bulletin.unl.edu/courses/CEEN/325/>) or (UNO) 3250.

A comprehensive overview on the recent advances in wireless network and system security. Security issues and solutions in emerging wireless access networks and systems as well as multihop wireless networks.

Credit Hours: 3

Course Format: Lecture 3

Campus: UNO

Course Delivery: Classroom

CEEN

491/891/4910/8916

Special Topics in Computer and Electronics Engineering IV [LINK \(http://bulletin.unl.edu/courses/CEEN/491\)](http://bulletin.unl.edu/courses/CEEN/491)

Prereqs:

Senior standing.

Special topics in the emerging areas of computer and electronics engineering which may not be covered in other courses in the computer and electronics engineering curriculum.

Credit Hours: 1-4

Max credits per degree: 4

Course Format: Lecture

Campus: UNO

Course Delivery: Classroom

CEEN

492/892/4920

Individual Study in Computer and Electronics Engineering IV [LINK \(http://bulletin.unl.edu/courses/CEEN/492\)](http://bulletin.unl.edu/courses/CEEN/492)

Prereqs:
Senior standing.

*CEEN 492 (<http://bulletin.unl.edu/courses/CEEN/492>) (UNO – *CEEN 4920* (<http://bulletin.unl.edu/courses/CEEN/4920>)) requires a CEEN departmentally approved proposal.*

Individual study in selected computer and electronics engineering area under the supervision and guidance of a computer and electronics engineering faculty member.

Credit Hours: 1–3

Max credits per degree: 3

Course Format: Independent Study

Campus: UNO

Course Delivery: Classroom

CEEN

863

Digital Communications Media

[LINK \(http://bulletin.unl.edu/courses/CEEN/863\)](http://bulletin.unl.edu/courses/CEEN/863)

Prereqs:
[CEEN 3610](http://bulletin.unl.edu/courses/CEEN/3610)

Offered on Omaha Campus. Transport of bit streams from one geographical location to another over various physical media such as wire pairs, coaxial cable, optical fiber, and radio waves. Transmission characteristics, media interfacing, delay, distortion, noise, and error detection and correction techniques.

Credit Hours: 4

Course Format: Lab 3, Lecture 3

Campus:

Course Delivery: Classroom

CEEN

926

Statistical Signal Processing for Wireless Communications

[LINK \(http://bulletin.unl.edu/courses/CEEN/926\)](http://bulletin.unl.edu/courses/CEEN/926)

Prereqs:
[CEEN 424](http://bulletin.unl.edu/courses/CEEN/424) (<http://bulletin.unl.edu/courses/CEEN/424>)/**[824](http://bulletin.unl.edu/courses/CEEN/824)** (<http://bulletin.unl.edu/courses/CEEN/824>)/(UNO) 4240/8246; **[CEEN 476](http://bulletin.unl.edu/courses/CEEN/476)** (<http://bulletin.unl.edu/courses/CEEN/476>)/**[876](http://bulletin.unl.edu/courses/CEEN/876)** (<http://bulletin.unl.edu/courses/CEEN/876>)/(UNO) 4760/8760; and **[CEEN 880](http://bulletin.unl.edu/courses/CEEN/880)** (<http://bulletin.unl.edu/courses/CEEN/880>)/(UNO) 8800

Statistical signal processing and applications for wireless communications: the characteristics of random signals; optimum linear filters; statistical parameter estimation using maximum likelihood (ML) and minimum mean-square error (MMSE) methods; adaptive signal processing using least-mean-square (LMS) and recursive least-square (RLS) approaches; Kalman filtering; and eigenanalysis.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CEEN

977

Space-time Wireless Communications

[LINK \(http://bulletin.unl.edu/courses/CEEN/977\)](http://bulletin.unl.edu/courses/CEEN/977)

Prereqs:
[CEEN 463](http://bulletin.unl.edu/courses/CEEN/463) (<http://bulletin.unl.edu/courses/CEEN/463>)/**[863](http://bulletin.unl.edu/courses/CEEN/863)** (<http://bulletin.unl.edu/courses/CEEN/863>)/(UNO) 4630/8636; **[CEEN 476](http://bulletin.unl.edu/courses/CEEN/476)** (<http://bulletin.unl.edu/courses/CEEN/476>)/**[876](http://bulletin.unl.edu/courses/CEEN/876)** (<http://bulletin.unl.edu/courses/CEEN/876>)/(UNO) 4760/8760.

Theory of space-time (ST) wireless communication systems. Spatial diversity, smart antenna systems, MIMO capacity of multi-antenna fading channels, space-time signaling, space-time receivers, and interference mitigation. Overview of more advanced topics such as MIMO-OFDM. Current trends in research and in the industry.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CEEN

998

Advanced Special Topics

[LINK \(http://bulletin.unl.edu/courses/CEEN/998\)](http://bulletin.unl.edu/courses/CEEN/998)

Prereqs:
Permission

Advanced topics in computer and electronics engineering.

Credit Hours: 1–3

Max credits per degree: 3

Course Format: Lecture 3

Campus:

Q

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ComputerAndElectronicsEngr). (<http://www.unl.edu/gradstudies/prospective/programs/ComputerAndElectronicsEngr>)

Department Chair: Bing Chen, Ph.D.

The Computer and Electronics Engineering Department (CEEN) at the University of Nebraska–Lincoln offers graduate programs in Telecommunications and Computer Engineering leading to master's and doctoral degrees. The graduate program prepares students for professional and research careers in industry and academia through providing strong breadth of knowledge and depth of expertise in telecommunications engineering and computer engineering.

Graduate students have the opportunity to experience and contribute to innovative engineering research in areas of wireless communications, wireless sensor networks, multimedia processing, network security, optical communications, biomedical communications engineering, and other related research areas. Students are able to participate in interdisciplinary studies with other departments and programs at the University of Nebraska including the University of Nebraska Medical Center.

The CEEN Department has extensive state-of-the-art research and computing facilities for all areas of active research including access to the Holland Computing Center which has over 5,600 processors and is capable of a sustainable computation rate of more than 20 trillion floating point operations per second (20 TFlops).

The CEEN Department is a University of Nebraska–Lincoln program located in the Peter Kiewit Institute in Omaha. The Peter Kiewit Institute was established to support high quality research by faculty and students coupled with business and economic development initiatives to generate unity-of-effort among academic, industry and local, state and federal government organizations in solving local, regional and national problems.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ComputerAndElectronicsEngr). (<http://www.unl.edu/gradstudies/prospective/programs/ComputerAndElectronicsEngr>)

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Computer Science and Engineering

Q

Courses for CSCE (CSCE)

CSCE 340/840	Numerical Analysis I Crosslisted as <i>MATH 340/840</i>	LINK (http://bulletin.unl.edu/courses/CSCE/340)
Prereqs: CSCE 155A (http://bulletin.unl.edu/courses/CSCE/155A) , CSCE 155E (http://bulletin.unl.edu/courses/CSCE/155E) , CSCE 155H (http://bulletin.unl.edu/courses/CSCE/155H) , CSCE 155N (http://bulletin.unl.edu/courses/CSCE/155N) , or CSCE 155T (http://bulletin.unl.edu/courses/CSCE/155T) ; Math 107 .		
This course is a prerequisite for: CSCE 447 (http://bulletin.unl.edu/courses/CSCE/447)		
<i>Credit toward the degree may be earned in only one of the following:</i> CSCE/MATH 340 (http://bulletin.unl.edu/courses/MATH/340/840) MATH 840 (http://bulletin.unl.edu/courses/MATH/840) and ENGM 480 (http://bulletin.unl.edu/courses/ENGM/480/880) ENGM 880 (http://bulletin.unl.edu/courses/ENGM/880) .		
Algorithm formulation for the practical solution of problems, interpolation, roots of equations, differentiation, and integration. Effects of finite precision.		

Credit Hours:	3
Max credits per degree:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE 410/810	Information Retrieval Systems	LINK (http://bulletin.unl.edu/courses/CSCE/410)
Prereqs: CSCE 310 (http://bulletin.unl.edu/courses/CSCE/310) or CSCE 311		
Credit Hours: 3		
Course Format: Lecture 3		

<http://bulletin.unl.edu/courses/CSCE/311>.

Course Delivery: Classroom

Outline of the general information retrieval problem, functional overview of information retrieval. Deterministic models of information retrieval systems; conventional Boolean, fuzzy set theory, p-norm, and vector space models. Probabilistic models. Text analysis and automatic indexing. Automatic query formulation. System-user adaptation and learning mechanisms. Intelligent information retrieval. Retrieval evaluation. Review of new theories and future directions. Practical experience with a working experimental information retrieval system.

CSCE Database Systems

[LINK \(http://bulletin.unl.edu/courses/CSCE/413\)](http://bulletin.unl.edu/courses/CSCE/413)

413/813

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

CSCE 413 (http://bulletin.unl.edu/courses/CSCE/413)/813 (http://bulletin.unl.edu/courses/CSCE/813) involves practical experience with a working database system.

Data and storage models for database systems; entity/relationship, relational, and constraint models; relational databases; relational algebra and calculus; structured query language; Logical database design: normalization; integrity; distributed data storage; concurrency; security issues. Spatial databases and geographic information systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE Foundations of Constraint Processing

[LINK \(http://bulletin.unl.edu/courses/CSCE/421\)](http://bulletin.unl.edu/courses/CSCE/421)

421/821

Prereqs:

[CSCE 235 \(http://bulletin.unl.edu/courses/CSCE/235\)](http://bulletin.unl.edu/courses/CSCE/235); [CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

Constraint processing for articulating and solving industrial problems such as design, scheduling, and resource allocation. The foundations of constraint satisfaction, its basic mechanisms (e.g., search, backtracking, and consistency-checking algorithms), and constraint programming languages. New directions in the field, such as strategies for decomposition and for symmetry identification.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE Design and Analysis of Algorithms

[LINK \(http://bulletin.unl.edu/courses/CSCE/423\)](http://bulletin.unl.edu/courses/CSCE/423)

423/823

Prereqs:

[CSCE 235 \(http://bulletin.unl.edu/courses/CSCE/235\)](http://bulletin.unl.edu/courses/CSCE/235); [CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

Mathematical preliminaries. Strategies for algorithm design, including divide-and-conquer, greedy, dynamic programming and backtracking. Mathematical analysis of algorithms. Introduction to NP-Completeness theory, including the classes P and NP, polynomial transformations and NP-complete problems.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CSCE Computational Complexity Theory

[LINK \(http://bulletin.unl.edu/courses/CSCE/424\)](http://bulletin.unl.edu/courses/CSCE/424)

424/824

Prereqs:

[CSCE 235 \(http://bulletin.unl.edu/courses/CSCE/235\)](http://bulletin.unl.edu/courses/CSCE/235); [CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

Credit Hours:	3
Course Format:	Lecture 3

Turing machine model of computation: deterministic, nondeterministic, alternating, probabilistic. Complexity classes: Time and space bounded, deterministic, nondeterministic, probabilistic. Reductions and completeness. Complexity of counting problems. Non-uniformity. Lower bounds. Interactive proofs.

CSCE **Compiler Construction**

LINK (<http://bulletin.unl.edu/courses/CSCE/425>)

425/825

Prereqs:
[CSCE 235](http://bulletin.unl.edu/courses/CSCE/235) (<http://bulletin.unl.edu/courses/CSCE/235>); [CSCE 310](http://bulletin.unl.edu/courses/CSCE/310) (<http://bulletin.unl.edu/courses/CSCE/310>) or [CSCE 311](http://bulletin.unl.edu/courses/CSCE/311) (<http://bulletin.unl.edu/courses/CSCE/311>).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Review of program language structures, translation, loading, execution, and storage allocation. Compilation of simple expressions and statements. Organization of a compiler including compile-time and run-time symbol tables, lexical scan, syntax scan, object code generation, error diagnostics, object code optimization techniques, and overall design.

CSCE **Automata, Computation, and Formal Languages**

LINK (<http://bulletin.unl.edu/courses/CSCE/428>)

428/828

Prereqs:
[CSCE 235](http://bulletin.unl.edu/courses/CSCE/235) (<http://bulletin.unl.edu/courses/CSCE/235>); [CSCE 310](http://bulletin.unl.edu/courses/CSCE/310) (<http://bulletin.unl.edu/courses/CSCE/310>) or [CSCE 311](http://bulletin.unl.edu/courses/CSCE/311) (<http://bulletin.unl.edu/courses/CSCE/311>).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Introduction to the classical theory of computer science. Finite state automata and regular languages, minimization of automata. Context free languages and pushdown automata, Turing machines and other models of computation, undecidable problems, introduction to computational complexity.

CSCE **Computer Architecture**

LINK (<http://bulletin.unl.edu/courses/CSCE/430>)

430/830

Prereqs:
[CSCE 230](http://bulletin.unl.edu/courses/CSCE/230) (<http://bulletin.unl.edu/courses/CSCE/230>); [CSCE 230L](http://bulletin.unl.edu/courses/CSCE/230L) (<http://bulletin.unl.edu/courses/CSCE/230L>); [CSCE 310](http://bulletin.unl.edu/courses/CSCE/310) (<http://bulletin.unl.edu/courses/CSCE/310>) or [CSCE 311](http://bulletin.unl.edu/courses/CSCE/311) (<http://bulletin.unl.edu/courses/CSCE/311>); Prereq or Coreq: [MATH/STAT 380](http://bulletin.unl.edu/courses/STAT/380) (<http://bulletin.unl.edu/courses/STAT/380>) or [ELEC 305](http://bulletin.unl.edu/courses/ELEC/305) (<http://bulletin.unl.edu/courses/ELEC/305>).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

This course is a prerequisite for: [CSCE 432](http://bulletin.unl.edu/courses/CSCE/432) (<http://bulletin.unl.edu/courses/CSCE/432>), [CSCE 437](http://bulletin.unl.edu/courses/CSCE/437) (<http://bulletin.unl.edu/courses/CSCE/437>)

Credit in [CSCE 830](http://bulletin.unl.edu/courses/CSCE/830) (<http://bulletin.unl.edu/courses/CSCE/830>) will not count towards a graduate degree in computer science.

Architecture of single-processor (Von Neumann or SISD) computer systems. Evolution, design, implementation, and evaluation of state-of-the-art systems. Memory Systems, including interleaving, hierarchies, virtual memory and cache implementations; Communications and I/O, including bus architectures, arbitration, I/O processors and DMA channels; and Central Processor Architectures, including RISC and Stack machines, high-speed arithmetic, fetch/execute overlap, and parallelism in a single-processor system.

CSCE **High-Performance Processor Architectures**

LINK (<http://bulletin.unl.edu/courses/CSCE/432>)

432/832

Prereqs:

CSCE 430 (<http://bulletin.unl.edu/courses/CSCE/430>); **MATH 314** (<http://bulletin.unl.edu/courses/MATH/314>); **MATH/STAT 380** (<http://bulletin.unl.edu/courses/STAT/380>) or **ELEC 305** (<http://bulletin.unl.edu/courses/ELEC/305>).

CSCE 432 (<http://bulletin.unl.edu/courses/CSCE/432>) assumes knowledge of computer architecture, pipelining, memory hierarchy, instruction level parallelism, and compiler principles.

High performance computing at the processor level. The underlying principles and micro-architectures of contemporary high-performance processors and systems. State-of-the-art architectural approaches to exploiting instruction level parallelism for performance enhancements. Case studies of actual systems highlight real-world trade-offs and theories.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE **VLSI Design**

434/834

[LINK \(http://bulletin.unl.edu/courses/CSCE/434\)](http://bulletin.unl.edu/courses/CSCE/434)

Prereqs:

CSCE 335 (<http://bulletin.unl.edu/courses/CSCE/335>) or permission.

Introduction to VLSI design using metal-oxide semiconductor (MOS) devices primarily aimed at computer science majors with little or no background in the physics or circuitry of such devices. Includes design of nMOS and CMOS logic, data-path, control unit, and highly concurrent systems as well as topics in design automation.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE **Cluster and Grid Computing**

435/835

[LINK \(http://bulletin.unl.edu/courses/CSCE/435\)](http://bulletin.unl.edu/courses/CSCE/435)

Prereqs:

CSCE 310 (<http://bulletin.unl.edu/courses/CSCE/310>) or **CSCE 311** (<http://bulletin.unl.edu/courses/CSCE/311>) or equivalent programming experience.

CSCE 435 (<http://bulletin.unl.edu/courses/CSCE/435/835>) (<http://bulletin.unl.edu/courses/CSCE/835>) is designed for CSCE and non-CSCE students who have an interest in building or programming clusters to enhance their computationally-intense research.

Build and program clusters. Cluster construction, cluster administration, cluster programming, and grid computing.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE **Advanced Embedded Systems**

436/836

[LINK \(http://bulletin.unl.edu/courses/CSCE/436\)](http://bulletin.unl.edu/courses/CSCE/436)

Prereqs:

CSCE 236 (<http://bulletin.unl.edu/courses/CSCE/236>); **CSCE 310** (<http://bulletin.unl.edu/courses/CSCE/310>) or equivalent; senior/graduate standing.

Embedded hardware design techniques; transceiver design and low-power communication techniques; sensors and distributed sampling techniques; embedded software design and embedded operating systems; driver development; embedded debugging techniques; hardware and software architectures of embedded systems; and design, development, and implementation of embedded applications.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE **File and Storage Systems**

437/837

[LINK \(http://bulletin.unl.edu/courses/CSCE/437\)](http://bulletin.unl.edu/courses/CSCE/437)

Prereqs:
[CSCE 351 \(http://bulletin.unl.edu/courses/CSCE/351\)](http://bulletin.unl.edu/courses/CSCE/351) or [451 \(http://bulletin.unl.edu/courses/CSCE/451\)](http://bulletin.unl.edu/courses/CSCE/451)/[851 \(http://bulletin.unl.edu/courses/CSCE/851\)](http://bulletin.unl.edu/courses/CSCE/851); [CSCE 430 \(http://bulletin.unl.edu/courses/CSCE/430\)](http://bulletin.unl.edu/courses/CSCE/430)/[830 \(http://bulletin.unl.edu/courses/CSCE/830\)](http://bulletin.unl.edu/courses/CSCE/830).

[CSCE 437 \(http://bulletin.unl.edu/courses/CSCE/437\)](http://bulletin.unl.edu/courses/CSCE/437)/[837 \(http://bulletin.unl.edu/courses/CSCE/837\)](http://bulletin.unl.edu/courses/CSCE/837) requires the designing and implementation of a real-life file and storage system.

System-level and device-level topics in the design, implementation, and use of file and storage systems. Components and organization of storage systems, disk drive hardware and firmware, multi-disk systems, RAID's, local distributed and P2P file systems, and low-power design.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Sensor Networks

438/838

[LINK \(http://bulletin.unl.edu/courses/CSCE/438\)](http://bulletin.unl.edu/courses/CSCE/438)

Prereqs:
[CSCE230](#) and [CSCE310](#) or equivalent; senior or graduate standing or instructor permission.

Basics of sensor networks; theoretical and practical insight into wireless sensor networks, including low-power hardware and wireless communication principles; networking in wireless sensor networks; and applications of sensor networks, such as multimedia, underwater, and underground. A group project that provides hands-on interaction with a wireless sensor network testbed.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Robotics

439/839

[LINK \(http://bulletin.unl.edu/courses/CSCE/439\)](http://bulletin.unl.edu/courses/CSCE/439)

Prereqs:
[CSCE236](#) or [ELEC222](#) and [CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)/311 \(http://bulletin.unl.edu/courses/CSCE/311\)](#) or equivalent programming experience, [MATH 314 \(http://bulletin.unl.edu/courses/MATH/314\)](#), senior/graduate standing, or instructor permission.

Fundamental theory and algorithms for real world robot systems. Design and build a robot platform and implement algorithms in C++ or other high level languages. Topics include: open and closed loop control, reactive control, localization, navigation, path planning, obstacle avoidance, dynamics, kinematics, manipulation and grasping, sensing, robot vision processing, and data fusion.

Credit Hours: 3

Course Format: Lab 2, Lecture 2

Course Delivery: Classroom

CSCE Approximation of Functions

441/841

Crosslisted as [MATH 441/841](#)

[LINK \(http://bulletin.unl.edu/courses/CSCE/441\)](http://bulletin.unl.edu/courses/CSCE/441)

Prereqs:
A programming language, [MATH 221 \(http://bulletin.unl.edu/courses/MATH/221\)](#) and [314 \(http://bulletin.unl.edu/courses/MATH/314\)](#).

Polynomial interpolation, uniform approximation, orthogonal polynomials, least-first-power approximation, polynomial and spline interpolation, approximation and interpolation by rational functions.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Numerical Analysis II

447/847

Crosslisted as [MATH 447/847](#)

[LINK \(http://bulletin.unl.edu/courses/CSCE/447\)](http://bulletin.unl.edu/courses/CSCE/447)

Prereqs:

Credit Hours: 3

[CSCE 340 \(http://bulletin.unl.edu/courses/CSCE/340\)](http://bulletin.unl.edu/courses/CSCE/340), [MATH 221 \(http://bulletin.unl.edu/courses/MATH/221\)](http://bulletin.unl.edu/courses/MATH/221) and [314 \(http://bulletin.unl.edu/courses/MATH/314\)](http://bulletin.unl.edu/courses/MATH/314).

Numerical matrix methods and numerical solutions of ordinary differential equations.

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Operating Systems Principles

451/851

[LINK \(http://bulletin.unl.edu/courses/CSCE/451\)](http://bulletin.unl.edu/courses/CSCE/451)

Prereqs:

[CSCE 230 \(http://bulletin.unl.edu/courses/CSCE/230\)](http://bulletin.unl.edu/courses/CSCE/230); [CSCE 230L \(http://bulletin.unl.edu/courses/CSCE/230L\)](http://bulletin.unl.edu/courses/CSCE/230L); [CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

This course is a prerequisite for: [CEEN 436 \(http://bulletin.unl.edu/courses/CEEN/436\)](http://bulletin.unl.edu/courses/CEEN/436), [CSCE 455 \(http://bulletin.unl.edu/courses/CSCE/455\)](http://bulletin.unl.edu/courses/CSCE/455)

Credit will not count towards a graduate degree in computer science and computer engineering.

Organization and structure of operating systems. Control, communication, and synchronization of concurrent processes. Processor and job scheduling. Memory organization and management including paging, segmentation, and virtual memory. Resource management. Deadlock avoidance, detection, recovery. File system concepts and structure. Protection and security. Substantial programming.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Distributed Operating Systems

455/855

[LINK \(http://bulletin.unl.edu/courses/CSCE/455\)](http://bulletin.unl.edu/courses/CSCE/455)

Prereqs:

[CSCE 451 \(http://bulletin.unl.edu/courses/CSCE/451\)](http://bulletin.unl.edu/courses/CSCE/451)/[851 \(http://bulletin.unl.edu/courses/CSCE/851\)](http://bulletin.unl.edu/courses/CSCE/851).

This course is a prerequisite for: [CHME 896 \(http://bulletin.unl.edu/courses/CHME/896\)](http://bulletin.unl.edu/courses/CHME/896)

[CSCE 455 \(http://bulletin.unl.edu/courses/CSCE/455\)](http://bulletin.unl.edu/courses/CSCE/455)/[855 \(http://bulletin.unl.edu/courses/CSCE/855\)](http://bulletin.unl.edu/courses/CSCE/855) requires a substantial programming project in distributed systems.

Organization and structure of distributed operating systems. Control, communication and synchronization of concurrent processes in the context of distributed systems. Processor allocation and scheduling. Deadlock avoidance, detection, recovery in distributed systems. Fault tolerance. Distributed file system concepts and structure.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Parallel Programming

456/856

[LINK \(http://bulletin.unl.edu/courses/CSCE/456\)](http://bulletin.unl.edu/courses/CSCE/456)

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311) or equivalent programming experience.

Introduction to the fundamentals of parallel computation and applied algorithm design. Methods and models of modern parallel computation; general techniques for designing efficient parallel algorithms for distributed and shared memory multiprocessor machines; principles and practice in programming an existing parallel machine.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Systems Administration

457/857

[LINK \(http://bulletin.unl.edu/courses/CSCE/457\)](http://bulletin.unl.edu/courses/CSCE/457)

Prereqs:
[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311) or equivalent programming experience.

Introduction to basic concepts of system administration. Operating systems and networking overview. User and resource management. Networking, systems and internet related security. System services and common applications, web services, database services, and mail servers. Basic scripting in shell, *Perl*, and *Expect*. Systems administration on UNIX® platform.

CSCE Communication Networks

462/862

[LINK \(http://bulletin.unl.edu/courses/CSCE/462\)](http://bulletin.unl.edu/courses/CSCE/462)

Prereqs:
[CSCE 230 \(http://bulletin.unl.edu/courses/CSCE/230\)](http://bulletin.unl.edu/courses/CSCE/230); [CSCE 230L \(http://bulletin.unl.edu/courses/CSCE/230L\)](http://bulletin.unl.edu/courses/CSCE/230L); [CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311); [MATH/STAT 380 \(http://bulletin.unl.edu/courses/STAT/380\)](http://bulletin.unl.edu/courses/STAT/380) or [ELEC 305 \(http://bulletin.unl.edu/courses/ELEC/305\)](http://bulletin.unl.edu/courses/ELEC/305).

This course is a prerequisite for: [CSCE 953 \(http://bulletin.unl.edu/courses/CSCE/953\)](http://bulletin.unl.edu/courses/CSCE/953)

Introduction to the architecture of communication networks and the rudiments of performance modeling. Circuit switching, packet switching, hybrid switching, protocols, local and metro area networks, wide area networks and the Internet, elements of performance modeling, and network programming. Network security, asynchronous transfer mode (ATM), optical, wireless, cellular, and satellite networks, and their performance studies.

CSCE Internet Systems and Programming

464/864

[LINK \(http://bulletin.unl.edu/courses/CSCE/464\)](http://bulletin.unl.edu/courses/CSCE/464)

Prereqs:
[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311) or equivalent programming experience.

Paradigms, systems, and languages for Internet applications. Client-side and server-side programming, object-based and event-based distributed programming, and multi-tier applications. Coverage of specific technologies varies.

CSCE Software Quality

467/867

[LINK \(http://bulletin.unl.edu/courses/CSCE/467\)](http://bulletin.unl.edu/courses/CSCE/467)

Prereqs:
[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

Initial and ongoing software analysis, including metrics, requirements, correctness, performance, testing and validation. Frameworks and methods for software quality. Benchmarks and testing, processes for quality assurance, performance and quality models, software quality tools, testable designs and automated testing.

CSCE Computer Graphics

470/870

[LINK \(http://bulletin.unl.edu/courses/CSCE/470\)](http://bulletin.unl.edu/courses/CSCE/470)

Prereqs:

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Credit Hours:	3
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[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311); [MATH 314 \(http://bulletin.unl.edu/courses/MATH/314\)](http://bulletin.unl.edu/courses/MATH/314).

Display and recording devices; incremental plotters; point, vector, and character generation; grey scale displays, digitizers and scanners, digital image storage; interactive and passive graphics; pattern recognition; data structures and graphics software; the mathematics of three dimensions; homogeneous coordinates; projections and the hidden-line problem.

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Introduction to Bioinformatics

471/871

[LINK \(http://bulletin.unl.edu/courses/CSCE/471\)](http://bulletin.unl.edu/courses/CSCE/471)

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311); [MATH/STAT 380 \(http://bulletin.unl.edu/courses/STAT/380\)](http://bulletin.unl.edu/courses/MATH/STAT/380).

This course is a prerequisite for: [CSCE 971 \(http://bulletin.unl.edu/courses/CSCE/971\)](http://bulletin.unl.edu/courses/CSCE/971)

Fundamentals and trends in bioinformatics. Scoring matrices and pairwise sequence alignments via dynamic programming, BLAST, and other heuristics. Multiple sequence alignments. Applications of machine learning methods such as hidden Markov models and support vector machines to biological problems such as family modeling and phylogeny.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Digital Image Processing

472/872

[LINK \(http://bulletin.unl.edu/courses/CSCE/472\)](http://bulletin.unl.edu/courses/CSCE/472)

Prereqs:

[CSCE 156 \(http://bulletin.unl.edu/courses/CSCE/156\)](http://bulletin.unl.edu/courses/CSCE/156) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311) or equivalent programming experience.

Digital imaging systems, digital image processing, and low-level computer vision. Data structures, algorithms, and system analysis and modeling. Digital image formation and presentation, image statistics and descriptions, operations and transforms, and system simulation. Applications include system design, restoration and enhancement, reconstruction and geometric manipulation, compression, and low-level analysis for computer vision.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Computer Vision

473/873

[LINK \(http://bulletin.unl.edu/courses/CSCE/473\)](http://bulletin.unl.edu/courses/CSCE/473)

Prereqs:

[CSCE 156 \(http://bulletin.unl.edu/courses/CSCE/156\)](http://bulletin.unl.edu/courses/CSCE/156) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311) or equivalent programming experience.

High-level processing for image understanding and high-level vision. Data structures, algorithms, and modeling. Low-level representation, basic pattern-recognition and image-analysis techniques, segmentation, color, texture and motion analysis, and representation of 2-D and 3-D shape. Applications for content-based image retrieval, digital libraries, and interpretation of satellite imagery.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

CSCE Introduction to Data Mining

474/874

[LINK \(http://bulletin.unl.edu/courses/CSCE/474\)](http://bulletin.unl.edu/courses/CSCE/474)

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311); [MATH/STAT 380 \(http://bulletin.unl.edu/courses/STAT/380\)](http://bulletin.unl.edu/courses/MATH/STAT/380).

Credit Hours: 3

Course Format: Lecture 3

CSCE 474 (<http://bulletin.unl.edu/courses/CSCE/474>)/874 (<http://bulletin.unl.edu/courses/CSCE/874>) requires the completion of a project involving the application of data mining techniques to real-world problems.

Data mining and knowledge discovery methods and their application to real-world problems. Algorithmic and systems issues. Statistical foundations, association discovery, classification, prediction, clustering, spatial data mining and advanced techniques.

CSCE Multiagent Systems

475/875

[LINK \(http://bulletin.unl.edu/courses/CSCE/475\)](http://bulletin.unl.edu/courses/CSCE/475)

Prereqs:

[CSCE 156 \(http://bulletin.unl.edu/courses/CSCE/156\)](http://bulletin.unl.edu/courses/CSCE/156) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

Distributed problem solving and planning, search algorithms for agents, distributed rational decision making, learning multiagent systems, computational organization theory, formal methods in Distributed Artificial Intelligence, multiagent negotiations, emergent behaviors (such as ants and swarms), and Robocup technologies and real-time coalition formation.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE Introduction to Artificial Intelligence

476/876

[LINK \(http://bulletin.unl.edu/courses/CSCE/476\)](http://bulletin.unl.edu/courses/CSCE/476)

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

Introduction to basic principles, techniques, and tools now being used in the area of machine intelligence. Languages for AI programming introduced with emphasis on LISP. Lecture topics include problem solving, search, game playing, knowledge representation, expert systems, and applications.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE Cryptography and Computer Security

477/877

[LINK \(http://bulletin.unl.edu/courses/CSCE/477\)](http://bulletin.unl.edu/courses/CSCE/477)

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311); [MATH 314 \(http://bulletin.unl.edu/courses/MATH/314\)](http://bulletin.unl.edu/courses/MATH/314).

Introductory course on cryptography and computer security. Topics: classical cryptography (substitution, Vigenere, Hill and permutation ciphers, and the one-time pad); Block ciphers and stream ciphers; The Data Encryption Standard; Public-key cryptography, including RSA and El-Gamal systems; Signature schemes, including the Digital Signature Standard; Key exchange, key management and identification protocols.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE Introduction to Machine Learning

478/878

[LINK \(http://bulletin.unl.edu/courses/CSCE/478\)](http://bulletin.unl.edu/courses/CSCE/478)

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

[MATH/STAT 380 \(http://bulletin.unl.edu/courses/STAT/380\)](http://bulletin.unl.edu/courses/STAT/380) or [ELEC 305 \(http://bulletin.unl.edu/courses/ELEC/305\)](http://bulletin.unl.edu/courses/ELEC/305) recommended.

Introduction to the fundamentals and current trends in machine learning. Possible applications for game playing, text categorization, speech

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

recognition, automatic system control, data mining, computational biology, and robotics. Theoretical and empirical analyses of decision trees, artificial neural networks, Bayesian classifiers, genetic algorithms, instance-based classifiers and reinforcement learning.

CSCE **Introduction to Neural Networks**

479/879

[LINK \(http://bulletin.unl.edu/courses/CSCE/479\)](http://bulletin.unl.edu/courses/CSCE/479)

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311).

Introduction to the concepts, design and application of connection-based computing begins by simulating neural networks, focusing on competing alternative network architectures, including sparse distributed memories, Hopfield networks, and the multilayered feed-forward systems. Construction and improvement of algorithms used for training of neural networks addressed to reduce training time and improve generalization. Algorithms for training and synthesizing effective networks implemented in high level language programs running on conventional computers. Emphasis on methods for synthesizing and simplifying network architectures for improved generalization. Application areas include: pattern recognition, computer vision, robotics medical diagnosis, weather and economic forecasting.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE **Special Topics in Computer Science**

490/890

[LINK \(http://bulletin.unl.edu/courses/CSCE/490\)](http://bulletin.unl.edu/courses/CSCE/490)

Prereqs:

Permission.

CSCE 490 (http://bulletin.unl.edu/courses/CSCE/490)/890 (http://bulletin.unl.edu/courses/CSCE/890) will not count toward a major or minor in Computer Science and Computer Engineering.

Aspects of computers and computing for non-Computer Science and Computer Engineering majors and/or minors. Topics vary.

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Lecture
Course Delivery:	Classroom

CSCE **Special Topics in Computer Science**

496/896

[LINK \(http://bulletin.unl.edu/courses/CSCE/496\)](http://bulletin.unl.edu/courses/CSCE/496)

Prereqs:

Senior or graduate standing.

Aspects of computers and computing not covered elsewhere in the curriculum presented as the need arises.

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Lecture
Course Delivery:	Classroom

CSCE **Computer Problems**

498/898

[LINK \(http://bulletin.unl.edu/courses/CSCE/498\)](http://bulletin.unl.edu/courses/CSCE/498)

Prereqs:

Senior or graduate standing.

Independent project executed under the guidance of a member of the faculty of the Department of Computer Science. Solution and documentation of a computer problem demanding a thorough knowledge of either the numerical or nonnumerical aspects of computer science.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Independent Study
Course Delivery:	Classroom, Web

CSCE **Internship in Computer Practice**

[LINK \(http://bulletin.unl.edu/courses/CSCE/891\)](http://bulletin.unl.edu/courses/CSCE/891)

891

A detailed project proposal must be prepared by the student and approved by the department prior to the start of the project. A final report must be submitted.

Experiential learning in conjunction with an approved industrial or governmental agency under the joint supervision of an outside sponsor and a faculty member.

Credit Hours:	1
Course Format:	Field
Campus:	
Course Delivery:	Classroom

CSCE

897**Masters Project**[LINK \(http://bulletin.unl.edu/courses/CSCE/897\)](http://bulletin.unl.edu/courses/CSCE/897)

Prereqs:
Permission of adviser

Designed for students pursuing a non-thesis option (Option III) to work on a project under the supervision of a member of the computer science and engineering faculty.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

CSCE

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/CSCE/899\)](http://bulletin.unl.edu/courses/CSCE/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

CSCE

910**Information Organization and Retrieval**[LINK \(http://bulletin.unl.edu/courses/CSCE/910\)](http://bulletin.unl.edu/courses/CSCE/910)

Prereqs:
[CSCE 810 \(http://bulletin.unl.edu/courses/CSCE/810\)](http://bulletin.unl.edu/courses/CSCE/810)

Aspects of natural language processing on digital computers. Analysis of information content by statistical, syntactic, and logical methods. Search and matching techniques. Automatic retrieval systems, question-answering systems. Evaluation of retrieval effectiveness.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CSCE

913**Advanced Topics in Database Systems**[LINK \(http://bulletin.unl.edu/courses/CSCE/913\)](http://bulletin.unl.edu/courses/CSCE/913)

Prereqs:
[CSCE 813 \(http://bulletin.unl.edu/courses/CSCE/813\)](http://bulletin.unl.edu/courses/CSCE/813)

Database system topics, coverage varying from year to year. Examples: Normalization theory; statistical databases; distributed databases; failure recovery; implementation issues. Readings in the current literature.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CSCE

914**Constraint Database Systems**[LINK \(http://bulletin.unl.edu/courses/CSCE/914\)](http://bulletin.unl.edu/courses/CSCE/914)

Prereqs:
[CSCE 813 \(http://bulletin.unl.edu/courses/CSCE/813\)](http://bulletin.unl.edu/courses/CSCE/813) or [913 \(http://bulletin.unl.edu/courses/CSCE/913\)](http://bulletin.unl.edu/courses/CSCE/913) and permission

Introduction to constraint database systems. Constraint data model, constraint query languages, query optimization and evaluation, constraint data storage and applications. Assignments in both use and the

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

CSCE

923**Development and Analysis of Efficient Algorithms**[LINK \(http://bulletin.unl.edu/courses/CSCE/923\)](http://bulletin.unl.edu/courses/CSCE/923)**Prereqs:**

[CSCE 820 \(http://bulletin.unl.edu/courses/CSCE/820\)](http://bulletin.unl.edu/courses/CSCE/820) and [827 \(http://bulletin.unl.edu/courses/CSCE/827\)](http://bulletin.unl.edu/courses/CSCE/827)

Analysis of performance of algorithms on random access machines and Turing machines, data structures for design of efficient algorithms, sorting algorithms, divide and conquer strategies, algorithms on graphs and their performance bounds, pattern matching algorithms, achievable lower bounds on complexity, NP complete problems.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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CSCE

924**Graph Algorithms**[LINK \(http://bulletin.unl.edu/courses/CSCE/924\)](http://bulletin.unl.edu/courses/CSCE/924)**Prereqs:**

[CSCE 827 \(http://bulletin.unl.edu/courses/CSCE/827\)](http://bulletin.unl.edu/courses/CSCE/827), [MATH 852 \(http://bulletin.unl.edu/courses/MATH/852\)](http://bulletin.unl.edu/courses/MATH/852), or permission

Review concepts related to analysis of algorithms and graph theory. Classical graph theoretic algorithms including Eulerian paths, Hamiltonian circuits, shortest paths, network flows and traveling salesman. Planar graph algorithms. Theory of alternating chains and algorithms for graph matching problems. Approximate and parallel algorithms. Applications of graph algorithms to engineering and physical sciences.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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CSCE

925**Scheduling Theory**[LINK \(http://bulletin.unl.edu/courses/CSCE/925\)](http://bulletin.unl.edu/courses/CSCE/925)**Prereqs:**

Permission

Scheduling theory with particular emphasis to its application in computer science. Polynomial-time algorithms, NP-hardness proofs and analysis of heuristics. Minimization of makespan and mean flow time. Real-Time scheduling.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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CSCE

930**Advanced Computer Architecture**[LINK \(http://bulletin.unl.edu/courses/CSCE/930\)](http://bulletin.unl.edu/courses/CSCE/930)**Prereqs:**

[CSCE 830 \(http://bulletin.unl.edu/courses/CSCE/830\)](http://bulletin.unl.edu/courses/CSCE/830)

Recent advances in computer architecture including the effects of VLSI and methods of improving performance. Parallelism, pipelining, vector and array processors, multiprocessors and distributed processors, and data-flow architectures.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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CSCE

932**Fault-Tolerance: Testing and Testable Design**[LINK \(http://bulletin.unl.edu/courses/CSCE/932\)](http://bulletin.unl.edu/courses/CSCE/932)**Prereqs:**

[CSCE 834 \(http://bulletin.unl.edu/courses/CSCE/834\)](http://bulletin.unl.edu/courses/CSCE/834) or permission

Increasing density of microelectronic circuits makes them harder to test during production and field operation. Theory and techniques developed to solve this problem. Faults and fault modeling; algorithms for test generation

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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and fault simulation; built-in-self-test methods and standards; design for testability; and self-checking circuits.

CSCE

933

Fault-Tolerance: System Design and Analysis

[LINK \(http://bulletin.unl.edu/courses/CSCE/933\)](http://bulletin.unl.edu/courses/CSCE/933)

Prereqs:

[CSCE 830 \(http://bulletin.unl.edu/courses/CSCE/830\)](http://bulletin.unl.edu/courses/CSCE/830) or permission

Theory and practice of creating extremely dependable digital systems through online fault-tolerance. Emphasizes modular redundancy in hardware and software to permit detection, masking, and removal of faulty components. Case studies from aerospace, banking, and other disciplines. Fault classification, error detection and diagnosis, dependability metrics, Byzantine Agreement, design trade-offs, and system simulation and modeling (esp. Markov).

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CSCE

942

Numerical Analysis III

Crosslisted as *MATH 942*

[LINK \(http://bulletin.unl.edu/courses/CSCE/942\)](http://bulletin.unl.edu/courses/CSCE/942)

Prereqs:

[CSCE/MATH 840 \(http://bulletin.unl.edu/courses/MATH/840\)](http://bulletin.unl.edu/courses/MATH/840) or [841 \(http://bulletin.unl.edu/courses/MATH/841\)](http://bulletin.unl.edu/courses/MATH/841) or [847 \(http://bulletin.unl.edu/courses/MATH/847\)](http://bulletin.unl.edu/courses/MATH/847) or permission

Advanced topics in numerical analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CSCE

952

Advanced Computer Networks

[LINK \(http://bulletin.unl.edu/courses/CSCE/952\)](http://bulletin.unl.edu/courses/CSCE/952)

Prereqs:

[CSCE 862 \(http://bulletin.unl.edu/courses/CSCE/862\)](http://bulletin.unl.edu/courses/CSCE/862)

Advanced-level course on the recent development in computer networks. Integrated Services Digital Networks (ISDN), Broadband-ISDN and Asynchronous Transfer Mode (ATM), Multimedia Source and Traffic Characteristics, Source Policing, Scheduling and Quality of Service, Wireless Communication, Tracking of Mobile Users, Performance Computer networks.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CSCE

953

Optical Communication Networks

[LINK \(http://bulletin.unl.edu/courses/CSCE/953\)](http://bulletin.unl.edu/courses/CSCE/953)

Prereqs:

[CSCE 462 \(http://bulletin.unl.edu/courses/CSCE/462\)](http://bulletin.unl.edu/courses/CSCE/462)/[862 \(http://bulletin.unl.edu/courses/CSCE/862\)](http://bulletin.unl.edu/courses/CSCE/862) or equivalent

State-of-the-art optical communication networks, encompassing traditional networks operating on optical fiber and next-generation networks such as wavelength division multiplexed (WDM) and optical time division multiplexed (OTDM) networks. Fundamentals of optical network design, control, and management. Optical network design and modeling, routing and wavelength assignment algorithms, optical network simulation tools and techniques.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CSCE

961

Coding Theory

[LINK \(http://bulletin.unl.edu/courses/CSCE/961\)](http://bulletin.unl.edu/courses/CSCE/961)

Prereqs:

[MATH 817 \(http://bulletin.unl.edu/courses/MATH/817\)](http://bulletin.unl.edu/courses/MATH/817) desirable

Channels, introduction to information theory, Shannon's fundamental

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

theorem, Linear codes, Hamming codes, Reed–Muller codes, cyclic codes, idempotents, BCH codes, Reed–Solomon codes, Quadratic residue codes, perfect single–error correcting codes, Sphere packings, the Golay codes, Lloyds theorem, nonexistence theorems, weight enumerators, the MacWilliams equation, association schemes, quasi–symmetric designs, polarities of designs, extension of graphs, self–orthogonal codes and designs.

CSCE

962

Advanced Software Engineering

[LINK \(http://bulletin.unl.edu/courses/CSCE/962\)](http://bulletin.unl.edu/courses/CSCE/962)

Prereqs:

[CSCE 361 \(http://bulletin.unl.edu/courses/CSCE/361\)](http://bulletin.unl.edu/courses/CSCE/361)

Recent advances in the field of software engineering. Software reuse, artificial intelligence approaches to software design, usability and requirements engineering, and design environments. Computer tools for the design of software products. Readings from current software engineering literature discussed and evaluated. Students will participate in a group project which investigates specific software engineering research topics.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CSCE

963

Software Process Engineering

[LINK \(http://bulletin.unl.edu/courses/CSCE/963\)](http://bulletin.unl.edu/courses/CSCE/963)

Prereqs:

[CSCE 361 \(http://bulletin.unl.edu/courses/CSCE/361\)](http://bulletin.unl.edu/courses/CSCE/361) or permission

Engineering of the software development process including software life–cycle, maturity models, process programming, and process management. Both theory and practice of engineering large, long–lived software systems. Process analysis, modeling, workflows, standards, process environments and tools, automation, and organizational context. Case studies illuminate the application of software process theory to engineering practice. Teams analyze and develop software management plans and tools.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CSCE

966

Software Architecture and Frameworks

[LINK \(http://bulletin.unl.edu/courses/CSCE/966\)](http://bulletin.unl.edu/courses/CSCE/966)

Prereqs:

[CSCE 866 \(http://bulletin.unl.edu/courses/CSCE/866\)](http://bulletin.unl.edu/courses/CSCE/866) or permission

Architectural aspects of software development including design patterns, frameworks, standardization of architectures and components, and development environments. Methodologies for creating reusable solutions for common problems in a variety of application areas. Experience in the development and use pattern catalogs and design standards.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CSCE

970

Pattern Recognition

[LINK \(http://bulletin.unl.edu/courses/CSCE/970\)](http://bulletin.unl.edu/courses/CSCE/970)

Prereqs:

[CSCE 310 \(http://bulletin.unl.edu/courses/CSCE/310\)](http://bulletin.unl.edu/courses/CSCE/310) or [CSCE 311 \(http://bulletin.unl.edu/courses/CSCE/311\)](http://bulletin.unl.edu/courses/CSCE/311); [MATH 314 \(http://bulletin.unl.edu/courses/MATH/314\)](http://bulletin.unl.edu/courses/MATH/314)/814 (<http://bulletin.unl.edu/courses/MATH/814>); [MATH/STAT 380 \(http://bulletin.unl.edu/courses/MATH/STAT/380\)](http://bulletin.unl.edu/courses/MATH/STAT/380) or [STAT 880 \(http://bulletin.unl.edu/courses/STAT/880\)](http://bulletin.unl.edu/courses/STAT/880) or [ELEC 305 \(http://bulletin.unl.edu/courses/ELEC/305\)](http://bulletin.unl.edu/courses/ELEC/305)

Introduction to statistical decision theory, adaptive classifiers, supervised and unsupervised training. Pattern recognition systems: transducers, feature extractors, decision units. Applications to optical character recognition, speech processing, remote sensing.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CSCE

971**Advanced Bioinformatics**[LINK \(http://bulletin.unl.edu/courses/CSCE/971\)](http://bulletin.unl.edu/courses/CSCE/971)**Prereqs:**

CSCE 471 (<http://bulletin.unl.edu/courses/CSCE/471>)/**871** (<http://bulletin.unl.edu/courses/CSCE/871>)

Advanced algorithmic techniques for bioinformatics. Development and analysis of string matching, graph theoretic and dynamic programming techniques applied to systems and computational biology problems such as multiple sequence alignment, alignment of DNA and protein sequences, genome rearrangements, and phylogeny and haplotypes.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CSCE

973**Support Vector Machines**[LINK \(http://bulletin.unl.edu/courses/CSCE/973\)](http://bulletin.unl.edu/courses/CSCE/973)**Prereqs:**

CSCE 310 (<http://bulletin.unl.edu/courses/CSCE/310>) or **CSCE 311** (<http://bulletin.unl.edu/courses/CSCE/311>); **MATH 314** (<http://bulletin.unl.edu/courses/MATH/314>)/**814** (<http://bulletin.unl.edu/courses/MATH/814>); **MATH/STAT 380** (<http://bulletin.unl.edu/courses/STAT/380>) or **STAT 880** (<http://bulletin.unl.edu/courses/STAT/880>); or **ELEC 305** (<http://bulletin.unl.edu/courses/ELEC/305>)

Core theory of the machine learning technique called support vector machines. Margin, kernels, and the formulation of a machine learning problem as an optimization problem that can be solved optimally. Implementation issues, kernel design, the appropriateness of various kernels for different applications, and regularization.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CSCE

974**Genetic Algorithms**[LINK \(http://bulletin.unl.edu/courses/CSCE/974\)](http://bulletin.unl.edu/courses/CSCE/974)**Prereqs:**

CSCE 310 (<http://bulletin.unl.edu/courses/CSCE/310>) and **876** (<http://bulletin.unl.edu/courses/CSCE/876>)

For students taking CSCE 974 (<http://bulletin.unl.edu/courses/CSCE/974>), no biological sciences background is needed. However, a knowledge of genetic principles may help student to improve current algorithms.

Introduction of the motivation and current implementations of advanced genetic algorithms. These algorithms are built on basic principles borrowed from biology. Illustrates how a novel, implicitly-parallel search is implemented to obtain solutions for combinatorically-difficult problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CSCE

976**Advanced Artificial Intelligence**[LINK \(http://bulletin.unl.edu/courses/CSCE/976\)](http://bulletin.unl.edu/courses/CSCE/976)**Prereqs:**

CSCE 876 (<http://bulletin.unl.edu/courses/CSCE/876>)

For students with some sophistication and considerable interest in exploring methods of designing and using algorithms useful for finding adequate answers to combinatorically large problems that require largely symbolic rather than numeric computing.

Study, analyze and critique basic and current research papers and to engage in artificial intelligence projects and experiments either alone or in small groups. Artificial intelligence environments, tools and expert system building. Class participation will be encouraged for the review of the more recent AI literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE

977**Data Encryption**[LINK \(http://bulletin.unl.edu/courses/CSCE/977\)](http://bulletin.unl.edu/courses/CSCE/977)**Prereqs:**

[STAT 880 \(http://bulletin.unl.edu/courses/STAT/880\)](http://bulletin.unl.edu/courses/STAT/880), [CSCE 235 \(http://bulletin.unl.edu/courses/CSCE/235\)](http://bulletin.unl.edu/courses/CSCE/235) or [MATH 817 \(http://bulletin.unl.edu/courses/MATH/817\)](http://bulletin.unl.edu/courses/MATH/817) or permission

History of public cryptology; elements of statistics, combinatorics, number theory, group theory; symmetric and asymmetric cryptosystems, "trap door" functions; public key cryptosystems; RSA and knapsack; levels of cryptographic security; computational complexity of algorithms; National Bureau of Standards-DES (Standard); block and stream cyphers; cypher key management; protection of proprietary software and data.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CSCE

979**Advances in Neural Networks and Genetic Algorithms**[LINK \(http://bulletin.unl.edu/courses/CSCE/979\)](http://bulletin.unl.edu/courses/CSCE/979)

CSCE 979 (http://bulletin.unl.edu/courses/CSCE/979) requires reading, research, and programming selected to address the open problems of improving the speed and robustness of algorithms for learning in networks and other self-organizing systems.

The state-of-the-art methods for supervised training of neural networks followed by the implementation and application of genetic algorithms. Evolution and self-organization of complex, adaptive, nonlinear systems for solving problems of pattern recognition, cognition, and control. Obtaining insight into the internal workings of neural networks. Current theories and experimental testing used for analysis and testing of connections and thresholds of trained neural networks. Reference materials include research reports, papers, and books on the theory and design of neural network based processors and problem solving systems.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

CSCE

990**Seminar**[LINK \(http://bulletin.unl.edu/courses/CSCE/990\)](http://bulletin.unl.edu/courses/CSCE/990)**Prereqs:
Permission**

Frontiers of an area of computer science.

Credit Hours:	1-3
Max credits per degree:	24
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

CSCE

996**Research Problems Other Than Thesis**[LINK \(http://bulletin.unl.edu/courses/CSCE/996\)](http://bulletin.unl.edu/courses/CSCE/996)

Investigation of minor research problems to introduce graduate students to the methods of research in computer science by assigning a problem which is of research interest but within the capacity of a graduate student to complete within a semester.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

CSCE

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/CSCE/999\)](http://bulletin.unl.edu/courses/CSCE/999)**Prereqs:**

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ComputerScience). (<http://www.unl.edu/gradstudies/prospective/programs/ComputerScience>)

Department Chair: Steve Goddard, Ph.D.

Graduate Committee Chair: Byrav Ramamurthy, Ph.D.

The Computer Science and Engineering (CSE) Department hosts advanced research programs in the general areas of

- Computer Science
- Computer Engineering
- Bioinformatics

Graduate students participate in research projects funded by major funding agencies and commercial companies.

The following graduate degree programs are available:

- Master of Science in Computer Science
- Master of Science in Computer Science with a Computer Engineering Specialization
- Master of Computer Science with a Bioinformatics Specialization
- Doctor of Philosophy in Computer Science
- Doctor of Philosophy in Engineering with a Computer Engineering Specialization
- Doctor of Philosophy in Computer Science with a Bioinformatics Specialization
- Joint Doctor of Philosophy in Computer Science and Mathematics

Specific information about Computer Science and Engineering graduate degree programs is available online at www.cse.unl.edu.

The CSE Department offers teaching assistantships and research assistantships to highly qualified students.

Master of Science.

Applicants for admission to the master of science degree program are required to submit scores for the general Graduate Record Examination and satisfy the general admission requirements of the Graduate College. Admission to full graduate standing in the MS program requires the equivalent of the undergraduate major in computer science. A TOEFL score of at least 600 (paper-based) and 250 (computer-based) is required for students whose native language is not English and who have not earned a baccalaureate in the US. Recommendation for admission to provisional standing in the MS program may be made in exceptional cases by the Computer Science Graduate Committee. Provisional admissions are limited by available space.

The master of science program may be carried out under Option I or Option III and conforms to the general requirements of the Graduate College. Students interested in computer engineering can take the computer engineering specialization within the master of science program.

Doctor of Philosophy.

Students applying for admission to the doctor of philosophy program in computer science must satisfy the general requirements for full graduate standing in the MS program as stated above. Admission to full graduate standing in the PhD program requires the successful completion of a qualifying examination. Admission to Candidacy for the PhD degree requires: the successful completion of a written comprehensive examination and the submission of an acceptable written proposal for the dissertation research to the student's PhD Supervisory Committee.

Cooperative doctor of philosophy programs are also offered in conjunction with the Department of Mathematics and the College of Engineering.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ComputerScience). (<http://www.unl.edu/gradstudies/prospective/programs/ComputerScience>)

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Criminal Justice

Description

Interim Department Director: John Crank, Ph.D.

The criminal justice program is administered through the University of Nebraska at Omaha and criminal justice graduate courses are primarily taken on the Omaha campus. Certain option courses, however, could be completed on the Lincoln campus in consultation with the student's graduate adviser.

The Department of Criminal Justice offers the student a choice of either a master of science or a master of arts degree in criminal justice and a doctor of philosophy in criminal justice. All degree programs emphasize criminal justice research, theory, planning, and administration.

Master of Arts.

The master of arts degree is a 30-credit-hour program, including thesis. The program is designed to emphasize research activity and independent inquiry, while simultaneously providing fundamental course work. This degree is especially recommended for those students seeking an interim degree prior to obtaining the

PhD.

Master of Science.

The master of science degree is a 36-credit-hour non-thesis program. This degree program offers the student a choice of either the standard master of science curriculum or a master of science with an option in public administration or a master of science with an option in counseling.

Doctor of Philosophy

The PhD in criminal justice requires a minimum of 93 credit hours, including credit for 30 hours earned in a master's degree program. The program is organized around five components: 1) a core of required courses in theory and research on the criminal justice system and the nature of crime; 2) a core of required courses on research methods and statistical analysis; 3) elective courses in criminal justice and related fields; 4) comprehensive examinations; and 5) a dissertation.

Satisfactory completion of a teaching practicum also is required.

Additional information may be obtained from the: Department of Criminal Justice

University of Nebraska at Omaha
Omaha, NE 68182-0149
(402) 554-2610

or

Department of Criminal Justice
University of Nebraska-Lincoln
1100 Neihardt
540 N 16th Street
P O Box 880633
Lincoln, NE 68588-0630
(402) 472-3677

Faculty

- Anderson, Amy L. -2003; Assistant Professor; BA 1997 Ohio State; MA 2000, PhD 2003, Penn State
- Batton Smith, Candice -1999; Assistant Professor; BA 1991 Nebraska (Lincoln); MA 1993 Kansas State; PhD 1999 Vanderbilt
- Brennan, Pauline K. -2004; Assistant Professor; MA 1989, PhD 1999 SUNY (Albany)
- Crank, John -2006; Professor; MA 1974 Tucson; MPA 1976 Springfield (Illinois); PhD 1987 Colorado
- DeLone, Gregory J. -2003; Assistant Professor; BS 1986 Florida State; MPA 1996, PhD 2002 Nebraska (Lincoln)
- DeLone, Miriam -1992; Associate Professor; BS 1987, MS 1989, PhD 1992 Florida State
- Eskridge, Chris -1978; Professor; BS 1975 Brigham Young; MA 1976, PhD 1978 Ohio State
- Hoffman, Dennis -1980; Professor; BA 1971 Northern Iowa; MA 1974 Drake; PhD 1979 Portland State
- Hughes, Lorine A. -2004; Assistant Professor; MA 1998, PhD 2003 Washington State
- Jacobs, Susan -1990; Associate Professor; PhD 1971 Nebraska (Lincoln)
- Kadleck, Colleen -2001; Assistant Professor; BS 1994 Bowling Green State; MS 1995, PhD 2001 Cincinnati
- Marshall, Christopher E. -1990; Associate Professor; BA 1971, MA 1975, Bowling Green; PhD 1978 Iowa State
- Meier, Robert -1998; Professor and Chair; PhD 1974 Wisconsin (Madison)
- Ogle, Robbin -1995; Associate Professor; BS 1982 Central Missouri State; MS 1990 Missouri (Columbia); PhD 1995 Penn State
- Sample, Lisa -; Assistant Professor; MA 1998, PhD 2001 Missouri (St. Louis)
- Simi, Peter -; Assistant Professor; MA 1999, PhD 2003 Nevada (Las Vegas)
- Wakefield, William -1974; Professor; BA 1965, MA 1970 Nebraska (Omaha); PhD 1976 South Dakota State
- Walker, Samuel -1974; Professor; BA 1965 Michigan; MA 1970 Nebraska (Omaha); PhD 1973 Ohio State
- Zhao, Jihong -1995; Associate Professor; MA 1990, PhD 1994 Washington State

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Earth and Atmospheric Sciences

Subject Areas

- [Colloquium and Research \(GEOS\) \(#GEOS\)](#)
- [Geology \(GEOL\) \(#GEOL\)](#)
- [Meteorology-Climatology \(METR\) \(#METR\)](#)

Q

Courses for GEOS (GEOS)

GEOS

810

Teaching & Learning in Post-Secondary Science Education

[LINK \(http://bulletin.unl.edu/courses/GEOS/810\)](http://bulletin.unl.edu/courses/GEOS/810)

Prereqs:

One semester of teaching a college level science, technology, engineering, or mathematics course.

This course is designed for graduate students, postdoctoral researchers, and others who teach at the college level. Students may seek permission from instructor to enroll in the course concurrent with their first semester of teaching.

Integrate learning theories, pedagogy, and evidence-based practices to promote student learning in science, technology, engineering, and

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOS
898

Special Problems in Geosciences

[LINK \(http://bulletin.unl.edu/courses/GEOS/898\)](http://bulletin.unl.edu/courses/GEOS/898)

Prereqs:
12 hours geosciences

Credit Hours:	1-6
Max credits per degree:	24
Campus:	
Course Delivery:	Classroom

GEOS
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/GEOS/899\)](http://bulletin.unl.edu/courses/GEOS/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

GEOS
900

Professional Development in Geosciences

[LINK \(http://bulletin.unl.edu/courses/GEOS/900\)](http://bulletin.unl.edu/courses/GEOS/900)

Professional skills. Time management, laboratory and field safety, abstract writing, proposal writing, grantsmanship, and presentations. The philosophy and ethical conduct of science.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

GEOS
99

Seminar and Colloquium

[LINK \(http://bulletin.unl.edu/courses/GEOS/99\)](http://bulletin.unl.edu/courses/GEOS/99)

Prereqs:
Graduate standing

All GEOS graduate students in residence must register for [GEOS 099](http://bulletin.unl.edu/courses/GEOS/099) (<http://bulletin.unl.edu/courses/GEOS/99>) each semester. [GEOS 099](http://bulletin.unl.edu/courses/GEOS/099) (<http://bulletin.unl.edu/courses/GEOS/99>) is P/N only.

Campus:	
Course Delivery:	Classroom

GEOS
996

Research Other than Thesis

[LINK \(http://bulletin.unl.edu/courses/GEOS/996\)](http://bulletin.unl.edu/courses/GEOS/996)

Prereqs:
Permission

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

GEOS
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/GEOS/999\)](http://bulletin.unl.edu/courses/GEOS/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Courses for GEOL (GEOL)

AGRO

475/875

Water Quality Strategy

[LINK \(http://bulletin.unl.edu/courses/AGRO/475\)](http://bulletin.unl.edu/courses/AGRO/475)

 Crosslisted as *POLS 475/875, SOCI 475/875, GEOL 475/875, CIVE 475/875, SOIL 475, NRES 475/875, WATS 475, MSYM 475/875, CRPL 475/875*

Prereqs:
Senior standing or permission.

Capstone course.

Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating present strategies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

BIOS

444/844

Geomicrobiology

[LINK \(http://bulletin.unl.edu/courses/BIOS/444\)](http://bulletin.unl.edu/courses/BIOS/444)

 Crosslisted as *GEOL 444/844*

Prereqs:
3 hours biological sciences and 3 hours chemistry.

Lectures and discussions of primary literature regarding microorganisms and their role transforming Earth through geologic time.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS

457/857

Ecosystem Ecology

[LINK \(http://bulletin.unl.edu/courses/BIOS/457\)](http://bulletin.unl.edu/courses/BIOS/457)

 Crosslisted as *GEOL 457/857*

Prereqs:
[BIOS 207 \(http://bulletin.unl.edu/courses/BIOS/207\)](http://bulletin.unl.edu/courses/BIOS/207) or [220 \(http://bulletin.unl.edu/courses/BIOS/220\)](http://bulletin.unl.edu/courses/BIOS/220); [CHEM 110 \(http://bulletin.unl.edu/courses/CHEM/110\)](http://bulletin.unl.edu/courses/CHEM/110); and [MATH 107 \(http://bulletin.unl.edu/courses/MATH/107\)](http://bulletin.unl.edu/courses/MATH/107).

Processes controlling the cycling of energy and elements in ecosystems and how both plant and animal species influence them. Human-influenced global and local changes that alter these cycles and ecosystem functioning.

Credit Hours:	4
Course Format:	Lecture 3, Recitation 1
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

GEOG

419/819

Applications of Remote Sensing in Agriculture and Natural Resources

[LINK \(http://bulletin.unl.edu/courses/GEOG/419\)](http://bulletin.unl.edu/courses/GEOG/419)

 Crosslisted as *GEOL 419/819, AGRO 419/819, NRES 420/820*

Prereqs:
[GEOG/NRES 418 \(http://bulletin.unl.edu/courses/NRES/418\)](http://bulletin.unl.edu/courses/NRES/418).

Introduction to the practical uses of remote electromagnetic sensing in dealing with agricultural and water-resources issues.

Credit Hours:	4
Course Format:	Lecture 3, Lab 2
Course Delivery:	Classroom
Groups:	Techniques

GEOL

414/814

Clay Mineralogy

[LINK \(http://bulletin.unl.edu/courses/GEOL/414\)](http://bulletin.unl.edu/courses/GEOL/414)

Prereqs:
[GEOL 210 \(http://bulletin.unl.edu/courses/GEOL/210\)](http://bulletin.unl.edu/courses/GEOL/210); [CHEM 113 \(http://bulletin.unl.edu/courses/CHEM/113\)](http://bulletin.unl.edu/courses/CHEM/113) or equivalent.

Structures and properties of common clay minerals; their formation and geologic/pedologic distribution. Generation and use of x-rays for diffraction analysis. Analysis of clays and related minerals by x-ray diffraction and electron microscopy.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Course Delivery:	Classroom

GEOL

Organic Geochemistry[LINK \(http://bulletin.unl.edu/courses/GEOL/417\)](http://bulletin.unl.edu/courses/GEOL/417)**417/817****Prereqs:**

GEOL 410 (<http://bulletin.unl.edu/courses/GEOL/410>) and **CHEM 251** (<http://bulletin.unl.edu/courses/CHEM/251>).

Origin, preservation and transport of organic compounds found in the rock record. Applications of organic geochemistry to paleoclimatic and paleoenvironmental interpretations as well as discerning the origins of coal, oil and natural gas.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOL

Chemistry of Natural Waters[LINK \(http://bulletin.unl.edu/courses/GEOL/418\)](http://bulletin.unl.edu/courses/GEOL/418)**418/818**Crosslisted as *NRES 419/819, WATS 418***Prereqs:**

2 semesters of college chemistry, or CHEM 109 (<http://bulletin.unl.edu/courses/CHEM/109>) and **110** (<http://bulletin.unl.edu/courses/CHEM/110>), **113** (<http://bulletin.unl.edu/courses/CHEM/113>) and **114** (<http://bulletin.unl.edu/courses/CHEM/114>), or **CHEM 111** (<http://bulletin.unl.edu/courses/CHEM/111>); or permission.

Principles of water chemistry and their use in precipitation, surface water, and groundwater studies. Groundwater applications used to determine the time and source of groundwater recharge, estimate groundwater residence time, identify aquifer mineralogy, examine the degree of mixing between waters of various sources and evaluate what types of biological and chemical processes have occurred during the water's journey through the aquifer system.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOL

Chemistry of Natural Waters Laboratory[LINK \(http://bulletin.unl.edu/courses/GEOL/418L\)](http://bulletin.unl.edu/courses/GEOL/418L)**418L/818L**Crosslisted as *NRES 419L/819L, WATS 418L***Prereqs:**

Two semesters college chemistry or permission.

Parallel: GEOL 418 (<http://bulletin.unl.edu/courses/GEOL/418>)/**818** (<http://bulletin.unl.edu/courses/GEOL/818>), *NRES 419* (<http://bulletin.unl.edu/courses/NRES/419>)/**819** (<http://bulletin.unl.edu/courses/NRES/819>), *WATS 418* (<http://bulletin.unl.edu/courses/WATS/418>). Offered even numbered calendar years or as needed.

Basic laboratory techniques used to perform water analysis including various wet chemical techniques, instrument use (AA, IC, UV-Visible) and computer modeling. Techniques for sample collection and preservation, parameter estimation and chemical analysis.

Credit Hours:	1
Course Format:	Lab 1
Course Delivery:	Classroom

GEOL

Siliciclastic Sedimentology[LINK \(http://bulletin.unl.edu/courses/GEOL/420\)](http://bulletin.unl.edu/courses/GEOL/420)**420/820****Prereqs:**

GEOL 310 (<http://bulletin.unl.edu/courses/GEOL/310>).

Depositional processes, environments of deposition, and facies models. Description, classification, and analysis of modern and ancient siliciclastic sediment and sedimentary rocks.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

GEOL

Carbonate Petrology[LINK \(http://bulletin.unl.edu/courses/GEOL/421\)](http://bulletin.unl.edu/courses/GEOL/421)**421/821**

Prereqs:
[GEOL 310 \(http://bulletin.unl.edu/courses/GEOL/310\)](http://bulletin.unl.edu/courses/GEOL/310).

Lab focuses on field, petrographic and geochemical methods.

Depositional settings and processes, petrography, geochemistry, diagenesis and geological significance of modern and ancient carbonate rocks and sediments.

Credit Hours: 3

Course Format: Lecture 2, Lab 3

Course Delivery: Classroom

GEOL **Quaternary Paleoclimatology and Paleoecology**

423/823

Crosslisted as *BIOS 436/836*

[LINK \(http://bulletin.unl.edu/courses/GEOL/423\)](http://bulletin.unl.edu/courses/GEOL/423)

Prereqs:
12 hrs GEOL or BIOS.

Analysis and interpretation of the Quaternary period's paleoecological data. Patterns of long-term climate variation. Distribution patterns and responses of organisms and ecosystems to Quaternary environmental change.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

GEOL **Biogeochemical Cycles**

424/824

Crosslisted as *BIOS 438/838*

[LINK \(http://bulletin.unl.edu/courses/GEOL/424\)](http://bulletin.unl.edu/courses/GEOL/424)

Prereqs:
[CHEM 109 \(http://bulletin.unl.edu/courses/CHEM/109\)](http://bulletin.unl.edu/courses/CHEM/109) or [113 \(http://bulletin.unl.edu/courses/CHEM/113\)](http://bulletin.unl.edu/courses/CHEM/113); **12 hrs geology or biological sciences.**

Chemical cycling at or near the earth's surface, emphasizing interactions among the atmosphere, biosphere, geosphere and hydrosphere. Modern processes, the geological record, and human impacts on elemental cycles.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

GEOL **Quantitative Methods in Paleontology**

430/830

[LINK \(http://bulletin.unl.edu/courses/GEOL/430\)](http://bulletin.unl.edu/courses/GEOL/430)

Prereqs:
[GEOL 310 \(http://bulletin.unl.edu/courses/GEOL/310\)](http://bulletin.unl.edu/courses/GEOL/310).

Numerical and statistical analysis of paleontological data including biometry, syn-ecology, and quantitative biostratigraphy.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

GEOL **Micro-paleontology**

431/831

[LINK \(http://bulletin.unl.edu/courses/GEOL/431\)](http://bulletin.unl.edu/courses/GEOL/431)

Prereqs:
[GEOL 310 \(http://bulletin.unl.edu/courses/GEOL/310\)](http://bulletin.unl.edu/courses/GEOL/310).

GEOL 431 (http://bulletin.unl.edu/courses/GEOL/431) is open to BIOS majors by permission only.

Morphology, classification, ecology and geological application of common fossil and extant marine, brackish, and freshwater microfossils.

Credit Hours: 3

Course Format: Lecture 2, Lab 3

Course Delivery: Classroom

GEOL **Vertebrate Paleontology**

435/835

[LINK \(http://bulletin.unl.edu/courses/GEOL/435\)](http://bulletin.unl.edu/courses/GEOL/435)

Prereqs:
Permission or graduate standing.

Survey of the evolution of the vertebrates, including the geological and biological factors that influence the pattern of evolution, and laboratory

Credit Hours: 3

Course Format: Lecture 2, Lab 3

Course Delivery: Classroom

study of fossil materials of the major vertebrate groups.

GEOL Evolution of Cenozoic Mammals

436/836

Crosslisted as *NRES 436/836*

[LINK \(http://bulletin.unl.edu/courses/GEOL/436\)](http://bulletin.unl.edu/courses/GEOL/436)

Prereqs:
[GEOL 103 \(http://bulletin.unl.edu/courses/GEOL/103\)](http://bulletin.unl.edu/courses/GEOL/103).

Survey of mammalian evolution with emphasis on the origin, radiation, and phylogenetic relationships of Cenozoic fossil mammals. Overview of climatic and ecological changes affecting mammalian adaptations and hands on experience with specimens.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOL Marine Ecology and Paleoecology

439/839

Crosslisted as *BIOS 461/861*

[LINK \(http://bulletin.unl.edu/courses/GEOL/439\)](http://bulletin.unl.edu/courses/GEOL/439)

Prereqs:
[BIOS/NRES 220 \(http://bulletin.unl.edu/courses/NRES/220\)](http://bulletin.unl.edu/courses/NRES/220).

This course is a prerequisite for: [GEOL 439L \(http://bulletin.unl.edu/courses/GEOL/439L\)](http://bulletin.unl.edu/courses/GEOL/439L)

Geology majors should register for [GEOL 439L \(http://bulletin.unl.edu/courses/GEOL/439L\)](http://bulletin.unl.edu/courses/GEOL/439L)/[BIOS 461L \(http://bulletin.unl.edu/courses/BIOS/461L\)](http://bulletin.unl.edu/courses/BIOS/461L).

Introduction to the fundamentals of marine ecology and their application to paleoecology.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

GEOL Marine Ecology and Paleoecology Lab

439L/839L

Crosslisted as *BIOS 461L/861L*

[LINK \(http://bulletin.unl.edu/courses/GEOL/439L\)](http://bulletin.unl.edu/courses/GEOL/439L)

Prereqs:
[Parallel GEOL 439 \(http://bulletin.unl.edu/courses/GEOL/439\)](http://bulletin.unl.edu/courses/GEOL/439)/[839 \(http://bulletin.unl.edu/courses/GEOL/839\)](http://bulletin.unl.edu/courses/GEOL/839).

Lab includes several field trips.

Credit Hours:	1
Max credits per degree:	1
Course Format:	Lab 3
Course Delivery:	Classroom

GEOL Tectonics

440/840

[LINK \(http://bulletin.unl.edu/courses/GEOL/440\)](http://bulletin.unl.edu/courses/GEOL/440)

Prereqs:
[GEOL 340 \(http://bulletin.unl.edu/courses/GEOL/340\)](http://bulletin.unl.edu/courses/GEOL/340) or permission.

Theory of plate tectonics; tectonic controls on rock assemblages; interpretation of regional structure and tectonic history; origin and tectonic evolution of terrestrial planets.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOL Environmental Geophysics I

442/842

[LINK \(http://bulletin.unl.edu/courses/GEOL/442\)](http://bulletin.unl.edu/courses/GEOL/442)

Prereqs:
[MATH 107 \(http://bulletin.unl.edu/courses/MATH/107\)](http://bulletin.unl.edu/courses/MATH/107); [PHYS 211 \(http://bulletin.unl.edu/courses/PHYS/211\)](http://bulletin.unl.edu/courses/PHYS/211); [GEOL 101 \(http://bulletin.unl.edu/courses/GEOL/101\)](http://bulletin.unl.edu/courses/GEOL/101) or [106 \(http://bulletin.unl.edu/courses/GEOL/106\)](http://bulletin.unl.edu/courses/GEOL/106); or equivalent or permission.

Introduction to the principles of seismic, ground-penetrating radar, and bore-hole geophysical methods and their application to groundwater,

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Course Delivery:	Classroom

engineering, environmental, and archaeological investigations.

GEOL **Environmental Geophysics II**

[LINK \(http://bulletin.unl.edu/courses/GEOL/443\)](http://bulletin.unl.edu/courses/GEOL/443)

443/843

Prereqs:
[MATH 107 \(http://bulletin.unl.edu/courses/MATH/107\)](http://bulletin.unl.edu/courses/MATH/107); [PHYS 211 \(http://bulletin.unl.edu/courses/PHYS/211\)](http://bulletin.unl.edu/courses/PHYS/211); [GEOL 101 \(http://bulletin.unl.edu/courses/GEOL/101\)](http://bulletin.unl.edu/courses/GEOL/101) or [106 \(http://bulletin.unl.edu/courses/GEOL/106\)](http://bulletin.unl.edu/courses/GEOL/106); or equivalent or permission.

Introduction to principles of magnetic, electromagnetic, resistivity, and gravity methods and their application to ground water, engineering, environmental, and archaeological investigations.

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Course Delivery:	Classroom

GEOL **Surficial Processes and Landscape Evolution**

[LINK \(http://bulletin.unl.edu/courses/GEOL/450\)](http://bulletin.unl.edu/courses/GEOL/450)

450/850

Prereqs:
[GEOL 310 \(http://bulletin.unl.edu/courses/GEOL/310\)](http://bulletin.unl.edu/courses/GEOL/310) or permission.

This course is a prerequisite for: [GEOL 465 \(http://bulletin.unl.edu/courses/GEOL/465\)](http://bulletin.unl.edu/courses/GEOL/465)

Two or three half-day field trips to local sites of interest and a five-day field trip to Colorado and Wyoming are required.

Fluvial, glacial, eolian, and coastal processes and landforms. Roles of tectonics, climate, and climate change in landscape evolution. Lab stresses description and interpretation of landforms from remotely-sensed, cartographic, and field data.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

GEOL **Soil Geomorphology and Paleopedology**

[LINK \(http://bulletin.unl.edu/courses/GEOL/465\)](http://bulletin.unl.edu/courses/GEOL/465)

465/865 Crosslisted as *NRES 465/865*

Prereqs:
[GEOL 450 \(http://bulletin.unl.edu/courses/GEOL/450\)/850 \(http://bulletin.unl.edu/courses/GEOL/850\)](http://bulletin.unl.edu/courses/GEOL/450/850) and [NRES 477 \(http://bulletin.unl.edu/courses/NRES/477\)/877 \(http://bulletin.unl.edu/courses/NRES/877\)](http://bulletin.unl.edu/courses/NRES/477/877); or permission.

Two field trips required.

Soils and paleosols as evidence in reconstruction landscape evolution and paleoenvironments. Role of paleosols in stratigraphy.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

GEOL **Field Techniques in Hydrogeology**

[LINK \(http://bulletin.unl.edu/courses/GEOL/470\)](http://bulletin.unl.edu/courses/GEOL/470)

470/870

Prereqs:
[GEOL 488 \(http://bulletin.unl.edu/courses/GEOL/488\)/888 \(http://bulletin.unl.edu/courses/GEOL/888\)](http://bulletin.unl.edu/courses/GEOL/488/888).

GEOL 470 (http://bulletin.unl.edu/courses/GEOL/470)/870 (http://bulletin.unl.edu/courses/GEOL/870) requires full day field trips.

Basic techniques, field procedures, instruments, and software for data interpretation, and characterization of groundwater flow and contaminant transport.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

GEOL **Water in Geosciences**

[LINK \(http://bulletin.unl.edu/courses/GEOL/472\)](http://bulletin.unl.edu/courses/GEOL/472)

472/872

Prereqs:
[MATH 106](http://bulletin.unl.edu/courses/MATH/106) (<http://bulletin.unl.edu/courses/MATH/106>) and [107](http://bulletin.unl.edu/courses/MATH/107) (<http://bulletin.unl.edu/courses/MATH/107>); [PHYS 141](http://bulletin.unl.edu/courses/PHYS/141) (<http://bulletin.unl.edu/courses/PHYS/141>); and one of the following: [GEOL 101](http://bulletin.unl.edu/courses/GEOL/101) (<http://bulletin.unl.edu/courses/GEOL/101>) or [106](http://bulletin.unl.edu/courses/GEOL/106) (<http://bulletin.unl.edu/courses/GEOL/106>) or [METR 200](http://bulletin.unl.edu/courses/METR/200) (<http://bulletin.unl.edu/courses/METR/200>).

Quantitative approach to water in geological media, earth surface and atmosphere. Understanding and analysis of physical processes involved in groundwater-surface-atmosphere interactions.

Credit Hours:	3
Course Delivery:	Classroom

GEOL **Economic Geology of the Metals**

480/880

[LINK \(http://bulletin.unl.edu/courses/GEOL/480\)](http://bulletin.unl.edu/courses/GEOL/480)

Prereqs:
12 hrs geology including [GEOL 210](http://bulletin.unl.edu/courses/GEOL/210) (<http://bulletin.unl.edu/courses/GEOL/210>), [340](http://bulletin.unl.edu/courses/GEOL/340) (<http://bulletin.unl.edu/courses/GEOL/340>); [CHEM 114](http://bulletin.unl.edu/courses/CHEM/114) (<http://bulletin.unl.edu/courses/CHEM/114>), [116](http://bulletin.unl.edu/courses/CHEM/116) (<http://bulletin.unl.edu/courses/CHEM/116>).

Occurrence and utilization of the metallic ores. Elementary theory of ore genesis.

Credit Hours:	2
Course Format:	Lecture 2, Lab 2
Course Delivery:	Classroom

GEOL **Fossil Fuel Geology and Exploration**

485/885

[LINK \(http://bulletin.unl.edu/courses/GEOL/485\)](http://bulletin.unl.edu/courses/GEOL/485)

Prereqs:
12 hrs geology.

Geology of coal, oil and gas, and methods of exploration.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

GEOL **Economic and Exploration Geology**

495/895

[LINK \(http://bulletin.unl.edu/courses/GEOL/495\)](http://bulletin.unl.edu/courses/GEOL/495)

Prereqs:
[GEOL 310](http://bulletin.unl.edu/courses/GEOL/310) (<http://bulletin.unl.edu/courses/GEOL/310>) and [GEOL 320](http://bulletin.unl.edu/courses/GEOL/320) (<http://bulletin.unl.edu/courses/GEOL/320>); or equivalent.
Recommended parallel: A GEOL course as indicated by the instructor and will vary according to the course content of [GEOL 495](http://bulletin.unl.edu/courses/GEOL/495) (<http://bulletin.unl.edu/courses/GEOL/495>).

This course is a prerequisite for: [GEOL 495](http://bulletin.unl.edu/courses/GEOL/495) (<http://bulletin.unl.edu/courses/GEOL/495>)

Field trips are required and supported by alumni endowment. Course content will vary on a 3-year rotational basis. Combined lectures, seminars, weekend short courses, and field trips. Field trips are required and supported by alumni endowment. Field trips may be scheduled during semester breaks.

E.F. Schramm Course in Economic Geology. Aspects of fossil fuel geology and exploration.

Credit Hours:	2
Max credits per semester:	6
Course Format:	Lecture 2, Field
Course Delivery:	Classroom

GEOL **Advanced Mineralogy**

812

[LINK \(http://bulletin.unl.edu/courses/GEOL/812\)](http://bulletin.unl.edu/courses/GEOL/812)

Prereqs:
12 hrs geology including [GEOL 210](http://bulletin.unl.edu/courses/GEOL/210)

Credit Hours:	3-6
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<http://bulletin.unl.edu/courses/GEOL/210>; CHEM 113
<http://bulletin.unl.edu/courses/CHEM/113>

Campus:
Course Delivery: Classroom

GEOL
816 Isotope Geochemistry

[LINK \(http://bulletin.unl.edu/courses/GEOL/816\)](http://bulletin.unl.edu/courses/GEOL/816)

Prereqs:
[GEOL 410 \(http://bulletin.unl.edu/courses/GEOL/410\)](http://bulletin.unl.edu/courses/GEOL/410)

Behavior of stable and radiogenic isotopes in geological and cosmochemical systems. Application of isotope geochemistry to determining the age of rocks, as well as the sources of the chemical components in the rocks.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

GEOL
825 Geostatistics

Crosslisted as NRES 825

[LINK \(http://bulletin.unl.edu/courses/GEOL/825\)](http://bulletin.unl.edu/courses/GEOL/825)

Prereqs:
[MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106) and [STAT 218 \(http://bulletin.unl.edu/courses/STAT/218\)](http://bulletin.unl.edu/courses/STAT/218)

Offered fall semester of odd-numbered calendar years. Practical methods for solving spatial interpolation and related estimation problems with emphasis on geostatistical methods. Introduction to applied statistical simulation and prediction in geology, hydrogeology and environmental studies.

Credit Hours: 3
Campus:
Course Delivery: Classroom

GEOL
828 Stratigraphic Architecture and Sequence Stratigraphy

[LINK \(http://bulletin.unl.edu/courses/GEOL/828\)](http://bulletin.unl.edu/courses/GEOL/828)

Prereqs:
[GEOL 310 \(http://bulletin.unl.edu/courses/GEOL/310\)](http://bulletin.unl.edu/courses/GEOL/310)

Analysis of stratigraphic stacking patterns in sedimentary basins and sequence stratigraphic methods.

Credit Hours: 3
Course Format: Lab 3, Lecture 2
Campus:
Course Delivery: Classroom

GEOL
846 Palynology

[LINK \(http://bulletin.unl.edu/courses/GEOL/846\)](http://bulletin.unl.edu/courses/GEOL/846)

Prereqs:
12 hours GEOS

GEOL 846 (http://bulletin.unl.edu/courses/GEOL/846) lab focuses on techniques for pollen recovery from modern and ancient materials.

Pollen and spore morphology, taxonomy, and pollination ecology as a basic tool for geologists, biologists, and archaeologists interested in environmental reconstruction. Techniques of environmental reconstruction through pollen analysis. Aspects of medical and forensic palynology.

Credit Hours: 3
Course Format: Lab, Lecture
Campus:
Course Delivery: Classroom

GEOL
869 Regional Field Geology

[LINK \(http://bulletin.unl.edu/courses/GEOL/869\)](http://bulletin.unl.edu/courses/GEOL/869)

Prereqs:
12 hrs GEOL including [GEOL 103 \(http://bulletin.unl.edu/courses/GEOL/103\)](http://bulletin.unl.edu/courses/GEOL/103)

Weekend field trips. Field investigation of classic areas of Midcontinent Geology, emphasizing principles of stratigraphy, geomorphology, sedimentology, and paleontology.

Credit Hours: 1
Course Format: Field
Campus:
Course Delivery: Classroom

GEOL

889**Hydrogeology**Crosslisted as *NRES 887*[LINK \(http://bulletin.unl.edu/courses/GEOL/889\)](http://bulletin.unl.edu/courses/GEOL/889)**Prereqs:**

GEOL 888 (<http://bulletin.unl.edu/courses/GEOL/888>)/**NRES 488** (<http://bulletin.unl.edu/courses/NRES/488>) and **MATH 208** (<http://bulletin.unl.edu/courses/MATH/208>)

Principles of flow through porous media with emphasis on basic classical solutions, flow-net analysis, and elementary modern numerical solutions that aid in the analysis and development of groundwater supplies.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOL

917**Environmental Isotope Hydrology**Crosslisted as *NRES 917*[LINK \(http://bulletin.unl.edu/courses/GEOL/917\)](http://bulletin.unl.edu/courses/GEOL/917)**Prereqs:**

NRES 819 (<http://bulletin.unl.edu/courses/NRES/819>) or equivalent or permission

Theory and use of stable, radiogenic and radioactive isotopes in hydrologic studies. Abundance and variation of the stable isotopes of oxygen, hydrogen, carbon, sulphur, chlorine, nitrogen, and strontium. Application of the isotopes to determine water origin, movement, geochemical history, recharge age and residence time, and to delineate contaminant sources and solute migration.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOL

918**Seminar in Geochemistry**[LINK \(http://bulletin.unl.edu/courses/GEOL/918\)](http://bulletin.unl.edu/courses/GEOL/918)

Credit Hours:	1-2
Campus:	
Course Delivery:	Classroom

GEOL

919**Seminar in Mineralogy**[LINK \(http://bulletin.unl.edu/courses/GEOL/919\)](http://bulletin.unl.edu/courses/GEOL/919)

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

GEOL

920**Seminar in Stratigraphy**[LINK \(http://bulletin.unl.edu/courses/GEOL/920\)](http://bulletin.unl.edu/courses/GEOL/920)

See also **GEOL 953** (<http://bulletin.unl.edu/courses/GEOL/953>).

Credit Hours:	1-2
Campus:	
Course Delivery:	Classroom

GEOL

922**Seminar in Sedimentary Environments**[LINK \(http://bulletin.unl.edu/courses/GEOL/922\)](http://bulletin.unl.edu/courses/GEOL/922)

Credit Hours:	1-2
Campus:	
Course Delivery:	Classroom

GEOL

925**Seminar in Sedimentology**[LINK \(http://bulletin.unl.edu/courses/GEOL/925\)](http://bulletin.unl.edu/courses/GEOL/925)

Credit Hours:	1-2
Campus:	
Course Delivery:	Classroom

GEOL

926**Marine Geology and Paleoceanography**[LINK \(http://bulletin.unl.edu/courses/GEOL/926\)](http://bulletin.unl.edu/courses/GEOL/926)

Geology of the oceanic realm, formation of oceanic crust, circulation, geochemistry, pelagic sediments and their diagenesis, correlation, and oceanic history.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

GEOL

929**Mesozoic and Cenozoic Stratigraphy**[LINK \(http://bulletin.unl.edu/courses/GEOL/929\)](http://bulletin.unl.edu/courses/GEOL/929)

Application of stratigraphic principles and methods to the solution of Mesozoic and Cenozoic problems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

GEOL

931**Taphonomy**[LINK \(http://bulletin.unl.edu/courses/GEOL/931\)](http://bulletin.unl.edu/courses/GEOL/931)

Processes in fossil preservation and how they affect information in the fossil record of vertebrates.

Credit Hours:	2
Course Format:	Lab 3, Lecture 1
Campus:	
Course Delivery:	Classroom

GEOL

934**Site Analysis in Vertebrate Paleontology**[LINK \(http://bulletin.unl.edu/courses/GEOL/934\)](http://bulletin.unl.edu/courses/GEOL/934)

Integrated approach to the excavation and collection of fossil vertebrate sites in a global framework, with consideration of tectonic, depositional, and taphonomic factors in interpretation of fossil vertebrate concentrations.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

GEOL

935**Cenozoic Vertebrate Paleoecology**[LINK \(http://bulletin.unl.edu/courses/GEOL/935\)](http://bulletin.unl.edu/courses/GEOL/935)

Prereqs:
[GEOL 836 \(http://bulletin.unl.edu/courses/GEOL/836\)](http://bulletin.unl.edu/courses/GEOL/836)

Terrestrial vertebrate history during the Cenozoic Era with emphasis on the fossil record of Great Plains mammalian communities within the last fifteen million years.

Credit Hours:	2
Course Format:	Lab 1, Lecture 1
Campus:	
Course Delivery:	Classroom

GEOL

Siliceous Phytoplankton Paleontology[LINK \(http://bulletin.unl.edu/courses/GEOL/936\)](http://bulletin.unl.edu/courses/GEOL/936)

936

Biostratigraphy, paleoecology, and paleobiogeography of fossil diatoms, silicoflagellates and ebridians.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

GEOL

937**Mesozoic Calcareous Nannofossil Paleontology**[LINK \(http://bulletin.unl.edu/courses/GEOL/937\)](http://bulletin.unl.edu/courses/GEOL/937)

Biostratigraphy, paleoecology, and paleobiogeography of Mesozoic calcareous nannofossils.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

GEOL

938**Cenozoic Calcareous Microfossil Paleontology**[LINK \(http://bulletin.unl.edu/courses/GEOL/938\)](http://bulletin.unl.edu/courses/GEOL/938)

Biostratigraphy, paleoecology, and paleobiogeography of Cenozoic calcareous nannofossils.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

GEOL

939**Seminar in Paleontology**[LINK \(http://bulletin.unl.edu/courses/GEOL/939\)](http://bulletin.unl.edu/courses/GEOL/939)

Credit Hours:	1-2
Campus:	
Course Delivery:	Classroom

GEOL

940**Advanced Structural Geology**[LINK \(http://bulletin.unl.edu/courses/GEOL/940\)](http://bulletin.unl.edu/courses/GEOL/940)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

GEOL

941**Advanced Tectonics**[LINK \(http://bulletin.unl.edu/courses/GEOL/941\)](http://bulletin.unl.edu/courses/GEOL/941)

Prereqs:
[GEOL 840 \(http://bulletin.unl.edu/courses/GEOL/840\)](http://bulletin.unl.edu/courses/GEOL/840) or permission

Tectonics and regional structure of selected mountain belts; Precambrian Tectonics; tectonics and resources.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOL

945**Seminar in Structural Geology and Tectonics**[LINK \(http://bulletin.unl.edu/courses/GEOL/945\)](http://bulletin.unl.edu/courses/GEOL/945)

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

GEOL

953

Glacial Geology

[LINK \(http://bulletin.unl.edu/courses/GEOL/953\)](http://bulletin.unl.edu/courses/GEOL/953)

Prereqs:

[GEOL 850 \(http://bulletin.unl.edu/courses/GEOL/850\)](http://bulletin.unl.edu/courses/GEOL/850) or permission

Deposits made by the continental ice sheets of the Pleistocene and of the environments that existed around them. Lab includes interpretation of topographic maps, air photos, soil maps, and field studies.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

GEOL

955

Seminar in Geomorphology

[LINK \(http://bulletin.unl.edu/courses/GEOL/955\)](http://bulletin.unl.edu/courses/GEOL/955)

Credit Hours: 2-3

Campus:

Course Delivery: Classroom

GEOL

956

Seminar in Quaternary Geology

[LINK \(http://bulletin.unl.edu/courses/GEOL/956\)](http://bulletin.unl.edu/courses/GEOL/956)

See also [GEOL 881 \(http://bulletin.unl.edu/courses/GEOL/881\)](http://bulletin.unl.edu/courses/GEOL/881), [827 \(http://bulletin.unl.edu/courses/GEOL/827\)](http://bulletin.unl.edu/courses/GEOL/827).

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

GEOL

985

Solute Movement in Soils

Crosslisted as *CIVE 955*, *AGRO 955*, *AGEN 955*

[LINK \(http://bulletin.unl.edu/courses/GEOL/985\)](http://bulletin.unl.edu/courses/GEOL/985)

Prereqs:

[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208); [AGRO 861 \(http://bulletin.unl.edu/courses/AGRO/861\)](http://bulletin.unl.edu/courses/AGRO/861) or [GEOL 888 \(http://bulletin.unl.edu/courses/GEOL/888\)](http://bulletin.unl.edu/courses/GEOL/888) or [MSYM 852 \(http://bulletin.unl.edu/courses/MSYM/852\)](http://bulletin.unl.edu/courses/MSYM/852) or [CIVE 858 \(http://bulletin.unl.edu/courses/CIVE/858\)](http://bulletin.unl.edu/courses/CIVE/858)

Knowledge of a programming language. [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) recommended. Offered even-numbered calendar years.

Examination of the theory and experimental evidence available to characterize the movement of chemicals in soil. Both saturated and unsaturated flow conditions examined. Initial presentation of basic theoretical concepts. Remainder of class a discussion of the literature.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

GEOL

986

Contaminant Hydrogeology

[LINK \(http://bulletin.unl.edu/courses/GEOL/986\)](http://bulletin.unl.edu/courses/GEOL/986)

Prereqs:

[GEOL 888 \(http://bulletin.unl.edu/courses/GEOL/888\)](http://bulletin.unl.edu/courses/GEOL/888), [MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208) or equivalent, or permission

Occurrence, behavior and remediation of contamination in geological media. Fundamentals of physical, mathematical, chemical, and engineering processes affecting movement of contaminants in the hydrogeological

Credit Hours: 3

Campus:

Course Delivery: Classroom

environment and their applications. Teamwork, projects, seminar presentations, field trips and invited lectures.

GEOL

987

Seminar in Hydrogeology

[LINK \(http://bulletin.unl.edu/courses/GEOL/987\)](http://bulletin.unl.edu/courses/GEOL/987)

Credit Hours:	1-2
Campus:	
Course Delivery:	Classroom

GEOL

988

Introduction to Groundwater Modeling

[LINK \(http://bulletin.unl.edu/courses/GEOL/988\)](http://bulletin.unl.edu/courses/GEOL/988)

Prereqs:
GEOL *889, [MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208) or equivalent, programming language, or permission

Application of fundamentals of modeling techniques (analytical, semi-analytical, finite-difference and finite elements) to the solution of hydrogeological problems. Emphasis on development of model concepts for specific groundwater flow and transport conditions, selection of solution methods, including computer software and hardware, performance of computer modeling, and interpretation of results.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOL

996

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/GEOL/996\)](http://bulletin.unl.edu/courses/GEOL/996)

Prereqs:
Permission

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

NRES

461/861

Soil Physics

Crosslisted as *GEOL 461/861, AGRO 461/861, SOIL 461, WATS 461*

[LINK \(http://bulletin.unl.edu/courses/NRES/461\)](http://bulletin.unl.edu/courses/NRES/461)

Prereqs:
[AGRO/SOIL 153 \(http://bulletin.unl.edu/courses/SOIL/153\)](http://bulletin.unl.edu/courses/AGRO/153); [PHYS 141 \(http://bulletin.unl.edu/courses/PHYS/141\)](http://bulletin.unl.edu/courses/PHYS/141) or equivalent, one semester of calculus.

Recommended: Parallel AGRO/NRES/SOIL 458 (http://bulletin.unl.edu/courses/SOIL/458).

Principles of soil physics. Movement of water, air, heat, and solutes in soils. Water retention and movement, including infiltration and field water regime. Movement of chemicals in soils.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES

484/884

Water Resources Seminar

Crosslisted as *GEOG 484/884, GEOL 484/884, AGRO 484/884, WATS 484*

[LINK \(http://bulletin.unl.edu/courses/NRES/484\)](http://bulletin.unl.edu/courses/NRES/484)

Prereqs:
Junior or above standing, or permission.

Seminar on current water resources research and issues in Nebraska and the region.

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Classroom

NRES

Groundwater Geology

[LINK \(http://bulletin.unl.edu/courses/NRES/488\)](http://bulletin.unl.edu/courses/NRES/488)

Crosslisted as *GEOL 488/888*

488/888

Prereqs:
GEOL 100–level course; **MATH 106**
(<http://bulletin.unl.edu/courses/MATH/106>) or equivalent.

This course is a prerequisite for: [GEOL 889](http://bulletin.unl.edu/courses/GEOL/889) (<http://bulletin.unl.edu/courses/GEOL/889>),
[NRES 918](http://bulletin.unl.edu/courses/NRES/918) (<http://bulletin.unl.edu/courses/NRES/918>)

Occurrence, movement, and development of water in the geologic environment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Courses for METR (METR)

AGRO

907

Agricultural Climatology

[LINK \(http://bulletin.unl.edu/courses/AGRO/907\)](http://bulletin.unl.edu/courses/AGRO/907)

Crosslisted as *METR 907, HORT 907, NRES 907*

Prereqs:
NRES 808 (<http://bulletin.unl.edu/courses/NRES/808>); **STAT 801**
(<http://bulletin.unl.edu/courses/STAT/801>) or equivalent

Offered spring semester of odd-numbered calendar years. Analysis and use of climatological data as applied to agricultural activities and the use of climatological information to assist in decision making.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

AGRO

908

Solar Radiation Interactions at the Earth's Surface

[LINK \(http://bulletin.unl.edu/courses/AGRO/908\)](http://bulletin.unl.edu/courses/AGRO/908)

Crosslisted as *METR 908, HORT 908, NRES 908*

Prereqs:
MATH 208 (<http://bulletin.unl.edu/courses/MATH/208>); **NRES 808**
(<http://bulletin.unl.edu/courses/NRES/808>) or equivalent or permission

Offered spring semester of even-numbered calendar years. Quantitative study of radiative transfer to the earth's surface and subsequent interactions of radiation with vegetative components and underlying surfaces. Applications of canopy radiative modeling and remote sensing techniques, particularly in understanding land-surface processes, are discussed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

METR

415/815

General Circulation of the Atmosphere

[LINK \(http://bulletin.unl.edu/courses/METR/415\)](http://bulletin.unl.edu/courses/METR/415)

Prereqs:
Junior standing; MATH 106 (<http://bulletin.unl.edu/courses/MATH/106>)
or **108H** (<http://bulletin.unl.edu/courses/MATH/108H>); **METR 205**
(<http://bulletin.unl.edu/courses/METR/205>) and **475**
(<http://bulletin.unl.edu/courses/METR/475>)/**875**
(<http://bulletin.unl.edu/courses/METR/875>); **PHYS 211**
(<http://bulletin.unl.edu/courses/PHYS/211>) or **211H**
(<http://bulletin.unl.edu/courses/PHYS/211H>); **PHYS 221**
(<http://bulletin.unl.edu/courses/PHYS/221>).

Development of the atmospheric circulation regimes, from planetary scale (e.g., the planetary waves) to synoptic scale (e.g., the cyclones and anticyclones) and mesoscale, their seasonal variations, and their roles in horizontal and vertical energy and water transports and budgets in the Earth system.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR

428/828

Air Pollution

[LINK \(http://bulletin.unl.edu/courses/METR/428\)](http://bulletin.unl.edu/courses/METR/428)

Prereqs:
6 hrs. METR and [CHEM 109 \(http://bulletin.unl.edu/courses/CHEM/109\)](http://bulletin.unl.edu/courses/CHEM/109).

Basic processes (e.g., emission, transport, first-order chemical reaction, and deposition) associated with air pollution and their combination with meteorology for air quality forecasting. Environmental topics: acid rain; smog; air pollution; ozone hole; greenhouse gases; aerosols; long-range transport; civic regulations and international treaties on air pollution; and climate change.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR **Advanced Synoptic Meteorology–Climatology**

442/842

[LINK \(http://bulletin.unl.edu/courses/METR/442\)](http://bulletin.unl.edu/courses/METR/442)

Prereqs:
[METR 341 \(http://bulletin.unl.edu/courses/METR/341\)](http://bulletin.unl.edu/courses/METR/341).

Analysis and forecasting of subsynoptic-scale weather systems. Convection, thunderstorm models, severe local storm forecasting techniques, mesoscale convective complexes, vertical cross-sections, isentropic analysis, and weather radar.

Credit Hours:	4
Course Format:	Lab 1, Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

METR **Severe Storms Meteorology–Climatology**

443/843

[LINK \(http://bulletin.unl.edu/courses/METR/443\)](http://bulletin.unl.edu/courses/METR/443)

Prereqs:
[METR 205 \(http://bulletin.unl.edu/courses/METR/205\)](http://bulletin.unl.edu/courses/METR/205).

Dynamics of various types of severe weather (blizzards, flash floods, lightning, thunderstorms and winter and summer tornado outbreaks). Interpretation of the numerical and statistical models utilized to forecast these phenomena. Synoptic case studies of severe weather occurrences. Recent research on severe weather.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR **Statistical Analysis of Atmospheric Data**

454/854

[LINK \(http://bulletin.unl.edu/courses/METR/454\)](http://bulletin.unl.edu/courses/METR/454)

Prereqs:
6 hrs METR and [MATH 107 \(http://bulletin.unl.edu/courses/MATH/107\)](http://bulletin.unl.edu/courses/MATH/107)/[107H \(http://bulletin.unl.edu/courses/MATH/107H\)](http://bulletin.unl.edu/courses/MATH/107H).

Application of univariate statistics, hypothesis testing, statistical forecasting, forecast verification, time-series analysis, principal component analysis, and cluster/multivariate analysis to atmospheric data for different applications in the atmospheric sciences (from short-term weather forecast to long-term climate prediction).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR **Radar Meteorology**

463/863

[LINK \(http://bulletin.unl.edu/courses/METR/463\)](http://bulletin.unl.edu/courses/METR/463)

Prereqs:
[METR 323 \(http://bulletin.unl.edu/courses/METR/323\)](http://bulletin.unl.edu/courses/METR/323).

The fundamental principles of weather radars and the basic application of these principles.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR **Satellite Meteorology**

464/864

[LINK \(http://bulletin.unl.edu/courses/METR/464\)](http://bulletin.unl.edu/courses/METR/464)

Prereqs:
METR 205 (<http://bulletin.unl.edu/courses/METR/205>).

Concepts and principles related to meteorological observations from satellites. Applications for weather analysis and forecasting.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR **Satellite Remote Sensing of Atmosphere**

465/865

[LINK \(http://bulletin.unl.edu/courses/METR/465\)](http://bulletin.unl.edu/courses/METR/465)

Prereqs:
METR 323 (<http://bulletin.unl.edu/courses/METR/323>).

Principles of atmospheric radiation and techniques for satellite image processing. Application of data calibration, image registration and enhancement, noise filtering and multi-spectral classification of satellite imageries. Survey of various satellite sensors used for monitoring different atmospheric processes and constituents.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR **The Climate System: Analysis and Prediction**

470/870

[LINK \(http://bulletin.unl.edu/courses/METR/470\)](http://bulletin.unl.edu/courses/METR/470)

Maintenance of the climate system and climate change over time. Global budgets of energy, water, and momentum and their balance. Development of simple, physically-based models of climate and of climate change.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

METR **Physical Climatology**

475/875

[LINK \(http://bulletin.unl.edu/courses/METR/475\)](http://bulletin.unl.edu/courses/METR/475)

Prereqs:
METR 205 (<http://bulletin.unl.edu/courses/METR/205>).

This course is a prerequisite for: [METR 483 \(http://bulletin.unl.edu/courses/METR/483\)](http://bulletin.unl.edu/courses/METR/483)

Global energy and water balance regimes of the earth and its atmosphere. Utilization of physical laws to reveal causes and effects of interrelationships in the climatic system.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR **Global Climate Change**

483/883

Crosslisted as *NRES 467/867*

[LINK \(http://bulletin.unl.edu/courses/METR/483\)](http://bulletin.unl.edu/courses/METR/483)

Prereqs:
Junior standing; MATH 106
<http://bulletin.unl.edu/courses/MATH/106>/[106B](http://bulletin.unl.edu/courses/MATH/106B)
<http://bulletin.unl.edu/courses/MATH/106B>/[106H](http://bulletin.unl.edu/courses/MATH/106H)
<http://bulletin.unl.edu/courses/MATH/106H>; 5 hrs PHYS; **METR 475**
<http://bulletin.unl.edu/courses/METR/475>/[875](http://bulletin.unl.edu/courses/METR/875)
<http://bulletin.unl.edu/courses/METR/875>.

METR 483 (http://bulletin.unl.edu/courses/METR/483)/883 (http://bulletin.unl.edu/courses/METR/883)/NRES 467 (http://bulletin.unl.edu/courses/NRES/467)/867 (http://bulletin.unl.edu/courses/NRES/867) is offered fall semester of even-numbered calendar years.

Elements of climate systems, El Nino/LaNina cycle and monsoons, natural variability of climate on interannual and interdecadal scales. Paleoclimate, and future climate, developed climate change scenarios and climate change impacts on natural resources and the environment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR

Earth's Climate: Past, Present, Future[LINK \(http://bulletin.unl.edu/courses/METR/487\)](http://bulletin.unl.edu/courses/METR/487)**487/887****Prereqs:****6 hrs METR or 6 hrs GEOL.**

How the Earth's climate has varied and the forcing mechanisms related to those changes. Themes that reappear through Earth's climate history and into the future; causes of climate change; the natural response times of the multiple components; and the role of greenhouse gases within the climate system at differing time scales.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

METR

Internship in Meteorology–Climatology[LINK \(http://bulletin.unl.edu/courses/METR/495\)](http://bulletin.unl.edu/courses/METR/495)**495/895****Prereqs:****Permission.**

Pass/No Pass only. Only 3 cr hrs of METR 495 (<http://bulletin.unl.edu/courses/METR/495>) may be applied to the major and/or minor in METR.

Application of meteorology–climatology learning with on–the–job training.

Credit Hours:	1–6
Max credits per degree:	6
Course Format:	Field
Course Delivery:	Classroom

METR

Dynamic Meteorology I[LINK \(http://bulletin.unl.edu/courses/METR/811\)](http://bulletin.unl.edu/courses/METR/811)**811****Prereqs:**

[CSCE 150E \(http://bulletin.unl.edu/courses/CSCE/150E\)](http://bulletin.unl.edu/courses/CSCE/150E); [MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208)/[208H \(http://bulletin.unl.edu/courses/MATH/208H\)](http://bulletin.unl.edu/courses/MATH/208H); [METR 205 \(http://bulletin.unl.edu/courses/METR/205\)](http://bulletin.unl.edu/courses/METR/205); [PHYS 211 \(http://bulletin.unl.edu/courses/PHYS/211\)](http://bulletin.unl.edu/courses/PHYS/211)/[211H \(http://bulletin.unl.edu/courses/PHYS/211H\)](http://bulletin.unl.edu/courses/PHYS/211H)

Equations of thermodynamics, momentum, and continuity are derived and applied to atmospheric motion. Energy conservation, flows, and conversions.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

METR

Dynamic Meteorology II[LINK \(http://bulletin.unl.edu/courses/METR/812\)](http://bulletin.unl.edu/courses/METR/812)**812****Prereqs:**

[CSCE 150E \(http://bulletin.unl.edu/courses/CSCE/150E\)](http://bulletin.unl.edu/courses/CSCE/150E); [MATH 221 \(http://bulletin.unl.edu/courses/MATH/221\)](http://bulletin.unl.edu/courses/MATH/221)/[821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821); [METR 311 \(http://bulletin.unl.edu/courses/METR/311\)](http://bulletin.unl.edu/courses/METR/311); [PHYS 211 \(http://bulletin.unl.edu/courses/PHYS/211\)](http://bulletin.unl.edu/courses/PHYS/211)/[211H \(http://bulletin.unl.edu/courses/PHYS/211H\)](http://bulletin.unl.edu/courses/PHYS/211H)

Applications of the principles of dynamic meteorology to the problems of forecasting and meteorological problems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

METR

Physical Meteorology[LINK \(http://bulletin.unl.edu/courses/METR/823\)](http://bulletin.unl.edu/courses/METR/823)**823****Prereqs:**

[CSCE 150E \(http://bulletin.unl.edu/courses/CSCE/150E\)](http://bulletin.unl.edu/courses/CSCE/150E); [METR 205 \(http://bulletin.unl.edu/courses/METR/205\)](http://bulletin.unl.edu/courses/METR/205); [PHYS 212 \(http://bulletin.unl.edu/courses/PHYS/212\)](http://bulletin.unl.edu/courses/PHYS/212)/[212H \(http://bulletin.unl.edu/courses/PHYS/212H\)](http://bulletin.unl.edu/courses/PHYS/212H)

Physical principles that provide the foundation for meteorology. Absorption,

Credit Hours:	4
Course Format:	Lecture 4
Campus:	
Course Delivery:	Classroom

scattering, and transmission of radiation in the atmosphere, cloud physics, precipitation process, atmospheric optics, atmospheric electricity, and lightning.

METR

841

Synoptic Meteorology

[LINK \(http://bulletin.unl.edu/courses/METR/841\)](http://bulletin.unl.edu/courses/METR/841)

Prereqs:

[METR 205 \(http://bulletin.unl.edu/courses/METR/205\)](http://bulletin.unl.edu/courses/METR/205)

Dynamic and thermodynamic concepts and principles applied to synoptic-scale weather forecasting. Dynamics, energetics, structure, evolution, and motion of extra-tropical cyclones. Meteorological communications, interpretation and analysis of weather maps, and thermodynamic diagrams.

Credit Hours:	4
Course Format:	Lab 2, Lecture 3
Campus:	
Course Delivery:	Classroom

METR

880

Theory of Climate

[LINK \(http://bulletin.unl.edu/courses/METR/880\)](http://bulletin.unl.edu/courses/METR/880)

Prereqs:

[MATH 221 \(http://bulletin.unl.edu/courses/MATH/221/821\)](http://bulletin.unl.edu/courses/MATH/221/821) [821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) or [MATH 221H \(http://bulletin.unl.edu/courses/MATH/221H\)](http://bulletin.unl.edu/courses/MATH/221H); [PHYS 142 \(http://bulletin.unl.edu/courses/PHYS/142\)](http://bulletin.unl.edu/courses/PHYS/142) or equivalent

Foundation and maintenance of earth's climate system and its variation over time. Climate modeling.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

METR

898

Special Topics in Meteorology–Climatology

[LINK \(http://bulletin.unl.edu/courses/METR/898\)](http://bulletin.unl.edu/courses/METR/898)

Prereqs:

Permission

Credit Hours:	1–24
Max credits per degree:	24
Campus:	
Course Delivery:	Classroom

METR

903

Seminar in Meteorology and Climatology

[LINK \(http://bulletin.unl.edu/courses/METR/903\)](http://bulletin.unl.edu/courses/METR/903)

Topic varies.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

METR

924

Atmospheric Radiative Transfer

[LINK \(http://bulletin.unl.edu/courses/METR/924\)](http://bulletin.unl.edu/courses/METR/924)

Prereqs:

[METR 423 \(http://bulletin.unl.edu/courses/METR/423/823\)](http://bulletin.unl.edu/courses/METR/423/823) [823 \(http://bulletin.unl.edu/courses/METR/823\)](http://bulletin.unl.edu/courses/METR/823); [MATH 221 \(http://bulletin.unl.edu/courses/MATH/221/221H\)](http://bulletin.unl.edu/courses/MATH/221/221H) [221H \(http://bulletin.unl.edu/courses/MATH/221H/821\)](http://bulletin.unl.edu/courses/MATH/221H/821) [821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821); and permission

Theory of scattering by atmospheric particles (e.g., clouds, aerosols, and molecules), atmospheric radiative transfer equations, and techniques for solving these equations. Atmospheric transfer of both solar and terrestrial radiation. Numerical experiments with radiative transfer models and

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

comparison with observations.

METR

943

Dynamics of Severe Convective Storms

[LINK \(http://bulletin.unl.edu/courses/METR/943\)](http://bulletin.unl.edu/courses/METR/943)

Prereqs:

[METR 411 \(http://bulletin.unl.edu/courses/METR/411\)](http://bulletin.unl.edu/courses/METR/411)/[811 \(http://bulletin.unl.edu/courses/METR/811\)](http://bulletin.unl.edu/courses/METR/811) and [412 \(http://bulletin.unl.edu/courses/METR/412\)](http://bulletin.unl.edu/courses/METR/412)/[812 \(http://bulletin.unl.edu/courses/METR/812\)](http://bulletin.unl.edu/courses/METR/812), or equivalent

Advanced concepts related to severe convective storms. Tornado–genesis, super–cell formation, rotation, movement, morphology, quasi–linear convective systems, deep convective initiation, hail, mesoscale convective systems, and RKW (Rotunno–Klemp–Weisman) theory.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

METR

987

Seminar in Climatic Change

[LINK \(http://bulletin.unl.edu/courses/METR/987\)](http://bulletin.unl.edu/courses/METR/987)

Climates of the past emphasizing the Quaternary period. Paleogeographic changes in response to climatic fluctuations. Techniques for recording and reconstructing past climatic variations. Modeling the changing climate. Climatic changes and human affairs.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NRES

408/808

Microclimate: The Biological Environment

[LINK \(http://bulletin.unl.edu/courses/NRES/408\)](http://bulletin.unl.edu/courses/NRES/408)

Crosslisted as *GEOG 408/808, METR 408/808, HORT 408/808, AGRO 408/808, WATS 408*

Prereqs:

Junior standing, [MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106) or equivalent, 5 hrs physics, major in any of the physical or biological sciences or engineering; or permission.

Physical factors that create the biological environment. Radiation and energy balances of earth's surfaces, terrestrial and marine. Temperature, humidity, and wind regimes near the surface. Control of the physical environment through irrigation, windbreaks, frost protection, manipulation of light, and radiation. Applications to air pollution research. Instruments for measuring environmental conditions and remote sensing of the environment.

Credit Hours:	3
Course Delivery:	Classroom

NRES

452/852

Climate and Society

[LINK \(http://bulletin.unl.edu/courses/NRES/452\)](http://bulletin.unl.edu/courses/NRES/452)

Crosslisted as *GEOG 450/850, METR 450/850, AGRO 450/850*

Prereqs:

[METR 200 \(http://bulletin.unl.edu/courses/METR/200\)](http://bulletin.unl.edu/courses/METR/200) or [351 \(http://bulletin.unl.edu/courses/METR/351\)](http://bulletin.unl.edu/courses/METR/351) or equivalent.

Offered spring semester of even–numbered calendar years.

Impact of climate and extreme climatic events on society and societal responses to those events. Global in scope and interdisciplinary.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

NRES

469/869

Bio–Atmospheric Instrumentation

[LINK \(http://bulletin.unl.edu/courses/NRES/469\)](http://bulletin.unl.edu/courses/NRES/469)

Crosslisted as *GEOG 469/869, METR 469/869, HORT 407/807, AGRO 469/869, MSYM 469/869*

Prereqs:

Junior standing; [MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106); 4 hrs physics; physical or biological science major.

Credit Hours:	3
Course Format:	Lecture 2, Lab 1
Course Delivery:	Classroom

Offered fall semester of odd-numbered calendar years.

Discussion and practical application of principles and practices of measuring meteorological and related variables near the earth's surface including temperature, humidity, precipitation, pressure, radiation and wind. Performance characteristics of sensors and modern data collection methods are discussed and evaluated.

NRES

Regional Climatology

[LINK \(http://bulletin.unl.edu/courses/NRES/478\)](http://bulletin.unl.edu/courses/NRES/478)

478/878

Crosslisted as METR 478/878

Prereqs:

[NRES/METR 370 \(http://bulletin.unl.edu/courses/METR/370\)](http://bulletin.unl.edu/courses/METR/370).

Regional differentiation of the climates of the earth on both a descriptive and dynamic basis. The chief systems of climatic classification.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES

Hydroclimatology

[LINK \(http://bulletin.unl.edu/courses/NRES/479\)](http://bulletin.unl.edu/courses/NRES/479)

479/879

Crosslisted as METR 479/879, WATS 479

Prereqs:

[NRES 208 \(http://bulletin.unl.edu/courses/NRES/208\)](http://bulletin.unl.edu/courses/NRES/208) or [METR 200 \(http://bulletin.unl.edu/courses/METR/200\)](http://bulletin.unl.edu/courses/METR/200) or [METR/NRES 370 \(http://bulletin.unl.edu/courses/NRES/370\)](http://bulletin.unl.edu/courses/NRES/370).

Offered fall semester of even-numbered calendar years.

Interaction between earth's climate and the hydrologic cycle. Energy and water fluxes at the land-atmosphere interface. Atmospheric moisture transport, precipitation, evaporation, snowmelt, and runoff. Impacts of climate variability and change on the hydrologic cycle.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Q

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/EarthAndAtmosphericSci\)](http://www.unl.edu/gradstudies/prospective/programs/EarthAndAtmosphericSci)

Department Chairperson: David K. Watkins, Ph.D.

Graduate Committee: Professor Oglesby (chair); Professors Goble, R. M. Joeckel; Assistant Professor Houston

The department offers both the master of science and doctor or philosophy degrees in geosciences. Students may develop programs of study which emphasize specific areas within the atmospheric and geological sciences.

The department has established program requirements in addition to those stipulated by the Office of Graduate Studies. These requirements are outlined in the department's Graduate Student Handbook. Other requirements (including language and research tools) are at the discretion of the supervisory committee and should be consistent with the educational objectives of the student.

Students are encouraged to complete the masters degree before beginning doctoral work. Those lacking certain required undergraduate courses may be admitted with the provision that the deficiencies be removed after enrollment.

Specializations available at the masters level:

Environmental Studies; Geology; Great Plains Studies; Hydrogeology; Meteorology-Climatology; Water Resources Planning and Management

Specializations available at the doctoral level:

Environmental Studies; Geology; Great Plains Studies; Hydrogeology; Meteorology-Climatology

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/EarthAndAtmosphericSci\)](http://www.unl.edu/gradstudies/prospective/programs/EarthAndAtmosphericSci)

Retrieved from "http://bulletin.unl.edu/graduate/Earth_and_Atmospheric_Sciences (http://bulletin.unl.edu/graduate/Earth_and_Atmospheric_Sciences)"

Economics

Courses for ECON (ECON)

AECN 815	Analytical Methods in Economics and Business Crosslisted as <i>ECON 815</i>	LINK (http://bulletin.unl.edu/courses/AECN/815)
Prereqs: MATH 104 (http://bulletin.unl.edu/courses/MATH/104) or 106 (http://bulletin.unl.edu/courses/MATH/106)		
<p>Equilibrium Analysis: Applications in business, finance, and economics. Market equilibria, accumulations, and economics. Optimization: profit, cost, and utility functions. Constrained optimization problems with utility functions. Constrained optimization problems in production and consumer allocations; Kuhn and Tucker conditions; static and dynamic input-output Models.</p>		
Credit Hours:		3
Campus:		
Course Delivery:		Classroom

AECN 873	Microeconomic Models and Applications Crosslisted as <i>ECON 873</i>	LINK (http://bulletin.unl.edu/courses/AECN/873)
Prereqs: ECON 211 (http://bulletin.unl.edu/courses/ECON/211) , 212 (http://bulletin.unl.edu/courses/ECON/212) , and 215 (http://bulletin.unl.edu/courses/ECON/215)		
<p>This course is intended for MA Option II students and others who do not plan to proceed to PhD studies. Analysis of microeconomic decision-making by individuals and firms with emphasis on consumer demand, production, cost and profit, market structure and the economics of games, uncertainty, and information.</p>		
Credit Hours:		3
Campus:		
Course Delivery:		Classroom

AECN 921	Seminar in International Trade and Finance Crosslisted as <i>ECON 921</i>	LINK (http://bulletin.unl.edu/courses/AECN/921)
Credit Hours:		3
Course Format:		Lecture 3
Campus:		
Course Delivery:		Classroom

ECON 403/803	Money and the Financial System	LINK (http://bulletin.unl.edu/courses/ECON/403)
Prereqs: ECON 210 (http://bulletin.unl.edu/courses/ECON/210) , or both ECON 211 (http://bulletin.unl.edu/courses/ECON/211) and ECON 212 (http://bulletin.unl.edu/courses/ECON/212) .		
<p>Basic policy implications of monetary economics with special reference to the role of money in the determination of income, employment, and prices. Includes demand for and supply of money, commercial and central banking system, monetary policy-making, nonbank financial system, and other issues in monetary economics.</p>		
Credit Hours:		3
Course Delivery:		Classroom
Groups:		Monetary Economics

ECON 404/804	Current Issues in Monetary Economics	LINK (http://bulletin.unl.edu/courses/ECON/404)
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Prereqs:

[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Money as developed by classical and modern economists. Emphasis on origins of money, interest rates, inflation, unemployment, business cycles, rational expectations, fiscal policy, international aspects of monetary policy, and other related topics in monetary economics.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Monetary Economics

ECON

Applied Public Policy Analysis[LINK \(http://bulletin.unl.edu/courses/ECON/409\)](http://bulletin.unl.edu/courses/ECON/409)**409/809****Prereqs:**

[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212); [ECON 215 \(http://bulletin.unl.edu/courses/ECON/215\)](http://bulletin.unl.edu/courses/ECON/215) or equivalent.

Experience with research methods in economics. Statistical analysis to investigate economic issues and related policies; find relevant data; perform and interpret univariate and multivariate statistical analyses; and formulate and test specific hypotheses.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Quantitative Economics

ECON

Social Insurance[LINK \(http://bulletin.unl.edu/courses/ECON/413\)](http://bulletin.unl.edu/courses/ECON/413)**413/813**Crosslisted as *FINA 413/813*

Nature and causes of economic insecurity. Analysis of public programs such as Social Security, unemployment insurance, workers' compensation, and public assistance.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	General Economics and Theory

ECON

Statistics for Decision Making[LINK \(http://bulletin.unl.edu/courses/ECON/416\)](http://bulletin.unl.edu/courses/ECON/416)**416/816****Prereqs:**

[ECON 215 \(http://bulletin.unl.edu/courses/ECON/215\)](http://bulletin.unl.edu/courses/ECON/215).

This course is a prerequisite for: [ECON 419 \(http://bulletin.unl.edu/courses/ECON/419\)](http://bulletin.unl.edu/courses/ECON/419)

Decision making under conditions of uncertainty. Introduction to Bayesian methods including the main methods of traditional statistics. Both prior knowledge and consequences of decision error are explicitly taken into account in the analysis.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Quantitative Economics

ECON

Introductory Econometrics[LINK \(http://bulletin.unl.edu/courses/ECON/417\)](http://bulletin.unl.edu/courses/ECON/417)**417/817****Prereqs:**

[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212); [ECON 215 \(http://bulletin.unl.edu/courses/ECON/215\)](http://bulletin.unl.edu/courses/ECON/215) or equivalent.

Designed to give undergraduate and master's level economics students an introduction to basic econometric methods including economic model estimation and analyses of economic data. Hypothesis formulation and testing, economic prediction and problems in analyzing economic cross-section and time series data are considered.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Econometrics

ECON

Topics in Applied Research[LINK \(http://bulletin.unl.edu/courses/ECON/419\)](http://bulletin.unl.edu/courses/ECON/419)**419/819****Prereqs:**

[ECON 416 \(http://bulletin.unl.edu/courses/ECON/416\)](http://bulletin.unl.edu/courses/ECON/416)/[816 \(http://bulletin.unl.edu/courses/ECON/816\)](http://bulletin.unl.edu/courses/ECON/816).

Selected topics involving the use of quantitative methods in applied research.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Quantitative Economics

ECON

International Trade[LINK \(http://bulletin.unl.edu/courses/ECON/421\)](http://bulletin.unl.edu/courses/ECON/421)**421/821****Prereqs:**

[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212); [ECON 312 \(http://bulletin.unl.edu/courses/ECON/312\)](http://bulletin.unl.edu/courses/ECON/312).

Determinants of the volume, prices, and commodity composition of trade. Effects of trade, international resource movements, trade restrictions on resource allocation, income distribution, and social welfare.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	International Trade and Finance

ECON

International Finance[LINK \(http://bulletin.unl.edu/courses/ECON/422\)](http://bulletin.unl.edu/courses/ECON/422)**422/822****Prereqs:**

[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Determinants of exchange rates, international payments, inflation, unemployment, national income, and interest rates in an open economy. International monetary system and capital and financial markets, and of the mechanisms by which a national economy and the rest of the world adjust to external disturbances.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	International Trade and Finance

ECON

Economics of the Less Developed Countries[LINK \(http://bulletin.unl.edu/courses/ECON/423\)](http://bulletin.unl.edu/courses/ECON/423)**423/823****Prereqs:**

[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Advanced survey of development problems and goals; roles of land, labor, capital, entrepreneurship, and technical progress in economic growth of the less developed countries. Theories and strategies relating to international trade and economic development.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Comparative International and Regional Development

ECON

Government Intervention in Markets[LINK \(http://bulletin.unl.edu/courses/ECON/426\)](http://bulletin.unl.edu/courses/ECON/426)**426/826****Prereqs:**

[ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Traces the economic and legal incentives for government involvement in the marketplace. Examines why various forms of intervention make sense in

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Industrial Organization and

certain situations. Defining the limits of allowable competition, and to replacing free market forces with regulation. Includes analysis of utilities and their evolving regulation.

Regulation

ECON

History of Economic Thought

[LINK \(http://bulletin.unl.edu/courses/ECON/433\)](http://bulletin.unl.edu/courses/ECON/433)

433/833

Development and evolution of economic ideas, including diverse mainstream and dissenting schools of thought from ancient Greece to contemporary texts. Consideration of selected influential economists' writings, relation between economic conditions and ideas and the antecedents of current economic controversies.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	General Economics and Theory

ECON

Market Competition

[LINK \(http://bulletin.unl.edu/courses/ECON/435\)](http://bulletin.unl.edu/courses/ECON/435)

435/835

Prereqs:
[ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Examination of differing schools of thought about how well a market economy performs. Includes economic analysis and extensive reviews of rivalry among corporations in various sectors of the US economy.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Industrial Organization and Regulation

ECON

Regional Development

[LINK \(http://bulletin.unl.edu/courses/ECON/440\)](http://bulletin.unl.edu/courses/ECON/440)

440/840

Prereqs:
[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

This course is a prerequisite for: [ECON 442 \(http://bulletin.unl.edu/courses/ECON/442\)](http://bulletin.unl.edu/courses/ECON/442)

Advanced analysis of regional growth and development. Emphasis on the relationship between national and regional growth as well as local attributes influencing development patterns. Comparisons between developed and developing countries used to highlight similarities and differences in development patterns and policies. Empirical applicability of regional economic models stressed.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Comparative International and Regional Development

ECON

Regional Analysis

[LINK \(http://bulletin.unl.edu/courses/ECON/442\)](http://bulletin.unl.edu/courses/ECON/442)

442/842

Prereqs:
[ECON 440 \(http://bulletin.unl.edu/courses/ECON/440\)](http://bulletin.unl.edu/courses/ECON/440)/[840 \(http://bulletin.unl.edu/courses/ECON/840\)](http://bulletin.unl.edu/courses/ECON/840).

Advanced study of techniques for regional analysis. Includes indexes of spatial dispersion and concentration, shift-share analysis, export base, and input-output analysis. Special emphasis on input-output analysis. Objective is to equip students with the basic analytical tools of regional economic analysis.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Comparative International and Regional Development

ECON

Gender, Economics, and Social Provisioning

[LINK \(http://bulletin.unl.edu/courses/ECON/445\)](http://bulletin.unl.edu/courses/ECON/445)

445/845

Crosslisted as *WMNS 445/845*

Prereqs:
[ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) or [ECON 212](http://bulletin.unl.edu/courses/ECON/212)

Credit Hours:	3
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<http://bulletin.unl.edu/courses/ECON/212>.

Introduction to the field of feminist economics. Critiques of economic theory and methodology along with gender and household decision-making, the care economy, international migration, development, globalization, the feminization of labor markets, and macroeconomics.

Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	General Economics and Theory

ECON Economics for Teachers

450/850

[LINK \(http://bulletin.unl.edu/courses/ECON/450\)](http://bulletin.unl.edu/courses/ECON/450)

Structure and function of the economic system and problems in achieving goals of efficient allocation of resources, full employment, stable prices, economic growth, and security. Emphasis on teaching of economics at the pre-college level.

Credit Hours:	2-6
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Economic Education

ECON Economics Issues for Teachers

451/851

[LINK \(http://bulletin.unl.edu/courses/ECON/451\)](http://bulletin.unl.edu/courses/ECON/451)

Application of economic principles to current problems. Includes evaluation of economic education materials, scope and sequence for development of economic concepts in the primary and secondary school.

Credit Hours:	1-6
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Economic Education

ECON 19th Century United States Economic History

457/857

Crosslisted as *HIST 457/857*

[LINK \(http://bulletin.unl.edu/courses/ECON/457\)](http://bulletin.unl.edu/courses/ECON/457)

Prereqs:

[ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212), or [ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210).

Transformation of the United States economy from an agrarian to an industrial society and the impact of that transformation on people's lives and livelihoods. The economics of slavery, the impact of the railroads, immigration, and the collective response of business and labor to industrialization.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Economic History

ECON 20th Century United States Economic History

458/858

Crosslisted as *HIST 458/858*

[LINK \(http://bulletin.unl.edu/courses/ECON/458\)](http://bulletin.unl.edu/courses/ECON/458)

Prereqs:

[ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212), or [ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210).

Transformation of the United States economy in the twentieth century. Attention to the continued consolidation of the business enterprise, business cycle episodes including the Great Depression of the 1930s, organized labor, and the role of government in managing and coping with this transformation in economic life.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Economic History

ECON Public Finance

471/871

[LINK \(http://bulletin.unl.edu/courses/ECON/471\)](http://bulletin.unl.edu/courses/ECON/471)

Prereqs:
[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Microeconomic analysis of policy issues in public finance, emphasizing taxation. Includes public goods and externalities; analysis of tax incidence, efficiency, and equity; and fiscal federalism.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

Groups: Public Finance

ECON

Efficiency in Government

[LINK \(http://bulletin.unl.edu/courses/ECON/472\)](http://bulletin.unl.edu/courses/ECON/472)

472/872

Prereqs:
[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Prepares students to conduct social and economic planning, program evaluation, and budgeting. Analysis of the delivery of government goods and services consistent with values and societal goals. Includes: philosophy of government, budget theory, social indicators, social fabric matrix, cost effective analysis, technology assessment, evaluation of the natural environment, and time analysis.

Credit Hours: 3

Course Delivery: Classroom

Groups: Public Finance

ECON

Theory and Analysis of Institutional Economics

[LINK \(http://bulletin.unl.edu/courses/ECON/475\)](http://bulletin.unl.edu/courses/ECON/475)

475/875

Survey of the basic ideas of Veblen, Polanyi, Commons, Ayres, Galbraith, and Myrdal. Applications of institutional analysis to major economic problems and policies. Examination of the economic system as part of the holistic human culture, a complex of many evolving institutions.

Credit Hours: 3

Course Delivery: Classroom

Groups: Institutional Economics

ECON

Economics of the Labor Market

[LINK \(http://bulletin.unl.edu/courses/ECON/481\)](http://bulletin.unl.edu/courses/ECON/481)

481/881

Prereqs:
[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Microeconomics of wages and employment; determinants of labor demand and supply; marginal productivity; bargaining theories of wages; labor mobility and allocation among employers; and the impact of unions, government policy, investment in human capital; and discrimination in labor markets.

Credit Hours: 3

Course Delivery: Classroom

Groups: Labor Economics

ECON

Labor in the National Economy

[LINK \(http://bulletin.unl.edu/courses/ECON/482\)](http://bulletin.unl.edu/courses/ECON/482)

482/882

Prereqs:
[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or [211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Macroeconomics aspects of labor economics; how the labor sector of the economy and the economy's overall performance are interrelated; analysis of the general level of wages, employment, unemployment, business cycles, and inflation.

Credit Hours: 3

Course Delivery: Classroom

Groups: Labor Economics

ECON

Economies in Transition[LINK \(http://bulletin.unl.edu/courses/ECON/487\)](http://bulletin.unl.edu/courses/ECON/487)**487/887****Prereqs:**

[ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210), or both [ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212).

Evolution of formally centrally planned economies (Soviet Union, central and eastern Europe, China) toward more market-oriented and decentralized economies. Includes comparisons of the speed and pattern of institutional changes, performance outcomes and implications for economic development strategies.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Comparative International and Regional Development

ECON

Insurance Law[LINK \(http://bulletin.unl.edu/courses/ECON/814\)](http://bulletin.unl.edu/courses/ECON/814)**814**Crosslisted as *LAW 783G*

Principles of insurance law. Focuses on features of common insurance contracts and the legislative, judicial and administrative supervision of both insurance contracts and the insurance industry.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

ECON

Land Use Planning[LINK \(http://bulletin.unl.edu/courses/ECON/827\)](http://bulletin.unl.edu/courses/ECON/827)**827**Crosslisted as *LAW 699G*

Legal and administrative aspects of the regulation of land use and development, the problems and techniques of urban planning at the various levels of government, and the relationship of private owners and builders to the government policies involved in shaping the physical environment.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

ECON

Antitrust and Trade Regulation[LINK \(http://bulletin.unl.edu/courses/ECON/828\)](http://bulletin.unl.edu/courses/ECON/828)**828**Crosslisted as *LAW 628G*

Control of business activities through the federal antitrust laws. Emphasis on monopolies, joint ventures, pricefixing, boycotts, resale price maintenance, exclusive dealing and tying arrangements, territorial restrictions, and mergers.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

ECON

Unfair Competition[LINK \(http://bulletin.unl.edu/courses/ECON/829\)](http://bulletin.unl.edu/courses/ECON/829)**829**Crosslisted as *LAW 645G*

Federal and state statutory provisions and common law doctrines restricting unfair methods of competition. Includes the law of trademarks, trade secrets, misappropriation, false advertising, disparagement, and the role of the FTC in regulating deceptive practices, together with brief introductions to copyright and patent law.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

ECON

Products Liability Seminar[LINK \(http://bulletin.unl.edu/courses/ECON/830\)](http://bulletin.unl.edu/courses/ECON/830)**830**Crosslisted as *LAW 793G*

Selected problems in products liability, with emphasis on research and writing projects analyzing the problems.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

ECON

852**Teaching College Economics and Business**[LINK \(http://bulletin.unl.edu/courses/ECON/852\)](http://bulletin.unl.edu/courses/ECON/852)

Organization and planning, instructional strategies, assessment methods, and related topics for teaching economics and business courses in colleges and universities.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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ECON

853**Economics of Education**[LINK \(http://bulletin.unl.edu/courses/ECON/853\)](http://bulletin.unl.edu/courses/ECON/853)

Survey of methods, theories, and analyses of education from an economics perspective. Education and human capital, educational production and cost functions, cost-benefit analysis, supply and demand for educators, education and economic growth. Survey of methods, theories, and analyses of education from an economics perspective. Education and human capital, educational production and cost functions, cost-benefit analysis, supply and demand for educators, education and economic growth.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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ECON

854**Economic Education Research**[LINK \(http://bulletin.unl.edu/courses/ECON/854\)](http://bulletin.unl.edu/courses/ECON/854)

Survey of research studies in the field of economic education. Research questions, data sources, theoretical models, experimental designs, statistical procedures, and research findings.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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ECON

874**Macroeconomic Models and Applications**[LINK \(http://bulletin.unl.edu/courses/ECON/874\)](http://bulletin.unl.edu/courses/ECON/874)**Prereqs:**

[ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211), [212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212), and [215 \(http://bulletin.unl.edu/courses/ECON/215\)](http://bulletin.unl.edu/courses/ECON/215)

This course is intended for MA Option II students and others who do not plan to proceed to PhD studies. Analysis of the performance of a market economy developing applications of macroeconomic models with emphasis on imperfect information, expectations, business cycles, growth and stabilization, and policymaking in a stochastic environment.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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ECON

880**Labor Law**Crosslisted as *LAW 753G*[LINK \(http://bulletin.unl.edu/courses/ECON/880\)](http://bulletin.unl.edu/courses/ECON/880)

Legislative and judicial patterns of the modern labor movement; the objectives of labor combinations; the forms of pressure employed for their realization and prevention; strikes, boycotts, picketing, and lockouts; the legal devices utilized in carving out the permissible bounds of damage suits involving labor activity; the labor injunction; the National Labor Relations Board; the nature of collective bargaining agreements; extra legal procedure for settling labor disputes—the techniques of mediation, conciliation, and arbitration.

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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ECON

886**Administrative Law**Crosslisted as *LAW 633G*[LINK \(http://bulletin.unl.edu/courses/ECON/886\)](http://bulletin.unl.edu/courses/ECON/886)

Origin and growth of the administrative process, the development of administrative law and its impact upon traditional legal institutions, analysis

Credit Hours:	1-4
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Campus:	
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of the types of federal and state administrative tribunals, their powers and functions, and problems of administrative procedure, judicial and other controls upon the administrative process.

Course Delivery: Classroom

ECON
899 Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/ECON/899\)](http://bulletin.unl.edu/courses/ECON/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

ECON
900 Seminar in Economic Theory and Policy

[LINK \(http://bulletin.unl.edu/courses/ECON/900\)](http://bulletin.unl.edu/courses/ECON/900)

Credit Hours: 3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

ECON
903 Seminar in Monetary Economics

[LINK \(http://bulletin.unl.edu/courses/ECON/903\)](http://bulletin.unl.edu/courses/ECON/903)

Credit Hours: 3

Campus:

Course Delivery: Classroom

ECON
919 Seminar in Research Methods

[LINK \(http://bulletin.unl.edu/courses/ECON/919\)](http://bulletin.unl.edu/courses/ECON/919)

Credit Hours: 3

Campus:

Course Delivery: Classroom

ECON
923 Seminar in Development Economics

[LINK \(http://bulletin.unl.edu/courses/ECON/923\)](http://bulletin.unl.edu/courses/ECON/923)

Credit Hours: 3

Campus:

Course Delivery: Classroom

ECON
927 Seminar in Industrial Organization

[LINK \(http://bulletin.unl.edu/courses/ECON/927\)](http://bulletin.unl.edu/courses/ECON/927)

Credit Hours: 3

Campus:

Course Delivery: Classroom

ECON
954 Seminar in Economic Education Research

[LINK \(http://bulletin.unl.edu/courses/ECON/954\)](http://bulletin.unl.edu/courses/ECON/954)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ECON
957 Econometrics I

[LINK \(http://bulletin.unl.edu/courses/ECON/957\)](http://bulletin.unl.edu/courses/ECON/957)

Prereqs:
[ECON 815](http://bulletin.unl.edu/courses/ECON/815) (<http://bulletin.unl.edu/courses/ECON/815>) or equivalent;
[STAT 880](http://bulletin.unl.edu/courses/STAT/880) (<http://bulletin.unl.edu/courses/STAT/880>) or equivalent

This course is a prerequisite for: [ECON 958](http://bulletin.unl.edu/courses/ECON/958) (<http://bulletin.unl.edu/courses/ECON/958>)

Matrix-based approach to the construction of statistical economic models, estimation of model parameters, and econometric inference. Multiple hypothesis tests, prediction, and general error structures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ECON
958 Econometrics II

[LINK \(http://bulletin.unl.edu/courses/ECON/958\)](http://bulletin.unl.edu/courses/ECON/958)

Prereqs:
[ECON 957](http://bulletin.unl.edu/courses/ECON/957) (<http://bulletin.unl.edu/courses/ECON/957>)

This course is a prerequisite for: [ECON 959](http://bulletin.unl.edu/courses/ECON/959) (<http://bulletin.unl.edu/courses/ECON/959>),
[ECON 960](http://bulletin.unl.edu/courses/ECON/960) (<http://bulletin.unl.edu/courses/ECON/960>)

Continuation of Econometrics I involving a more advanced treatment of statistical economics models. Identification problem and alternative methods of estimating parameters.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ECON
959 Advanced Topics in Econometrics I

[LINK \(http://bulletin.unl.edu/courses/ECON/959\)](http://bulletin.unl.edu/courses/ECON/959)

Prereqs:
[ECON 958](http://bulletin.unl.edu/courses/ECON/958) (<http://bulletin.unl.edu/courses/ECON/958>) with a grade of "B" or better

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ECON
960 Advanced Topics in Econometrics II

[LINK \(http://bulletin.unl.edu/courses/ECON/960\)](http://bulletin.unl.edu/courses/ECON/960)

Prereqs:
[ECON 958](http://bulletin.unl.edu/courses/ECON/958) (<http://bulletin.unl.edu/courses/ECON/958>) with a grade of "B" or better

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ECON
971 Public Expenditure, Taxation, and Fiscal Incidence

[LINK \(http://bulletin.unl.edu/courses/ECON/971\)](http://bulletin.unl.edu/courses/ECON/971)

Prereqs:
[ECON 871](http://bulletin.unl.edu/courses/ECON/871) (<http://bulletin.unl.edu/courses/ECON/871>) or permission

This course is a prerequisite for: [ECON 972](http://bulletin.unl.edu/courses/ECON/972) (<http://bulletin.unl.edu/courses/ECON/972>),
[ECON 977](http://bulletin.unl.edu/courses/ECON/977) (<http://bulletin.unl.edu/courses/ECON/977>)

Administration and organization of the public sector, bureaucracy, and

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

microeconomic theories of taxation. Public goods, externalities, uncertainty, and income redistribution as sources of market failure; private market and collective choice models as possible correcting mechanisms.

ECON
972 **Fiscal Theory and Its Applications**

[LINK \(http://bulletin.unl.edu/courses/ECON/972\)](http://bulletin.unl.edu/courses/ECON/972)

Prereqs:
[ECON 971 \(http://bulletin.unl.edu/courses/ECON/971\)](http://bulletin.unl.edu/courses/ECON/971)

Advanced theory of the influence of fiscal instruments upon stability, growth, employment, balance of payments, and portfolios. Constraints of money and debt management. Generation and control of inflation. Policy applications.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ECON
973 **Advanced Microeconomic Theory I**

[LINK \(http://bulletin.unl.edu/courses/ECON/973\)](http://bulletin.unl.edu/courses/ECON/973)

Prereqs:
[ECON 312 \(http://bulletin.unl.edu/courses/ECON/312\)](http://bulletin.unl.edu/courses/ECON/312) or equivalent

This course is a prerequisite for: [AECN 901A \(http://bulletin.unl.edu/courses/AECN/901A\)](http://bulletin.unl.edu/courses/AECN/901A), [AECN 901E \(http://bulletin.unl.edu/courses/AECN/901E\)](http://bulletin.unl.edu/courses/AECN/901E), [ECON 983 \(http://bulletin.unl.edu/courses/ECON/983\)](http://bulletin.unl.edu/courses/ECON/983)

Survey of the theory of individual choice; demand, supply, production, price formation. Theory of market structure.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ECON
974 **Advanced Macroeconomic Theory I**

[LINK \(http://bulletin.unl.edu/courses/ECON/974\)](http://bulletin.unl.edu/courses/ECON/974)

Advanced topics in aggregate dynamics and growth.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ECON
975 **Seminar in Economic and Business History**

[LINK \(http://bulletin.unl.edu/courses/ECON/975\)](http://bulletin.unl.edu/courses/ECON/975)

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

ECON
977 **Seminar in Public Finance**

[LINK \(http://bulletin.unl.edu/courses/ECON/977\)](http://bulletin.unl.edu/courses/ECON/977)

Prereqs:
[ECON 971 \(http://bulletin.unl.edu/courses/ECON/971\)](http://bulletin.unl.edu/courses/ECON/971) and [972 \(http://bulletin.unl.edu/courses/ECON/972\)](http://bulletin.unl.edu/courses/ECON/972)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ECON
981 **Seminar in Labor Economics**

[LINK \(http://bulletin.unl.edu/courses/ECON/981\)](http://bulletin.unl.edu/courses/ECON/981)

Credit Hours:	3
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Campus:	
Course Delivery:	Classroom

ECON
983

Advanced Microeconomic Theory II

[LINK \(http://bulletin.unl.edu/courses/ECON/983\)](http://bulletin.unl.edu/courses/ECON/983)

Prereqs:
[ECON 973 \(http://bulletin.unl.edu/courses/ECON/973\)](http://bulletin.unl.edu/courses/ECON/973)

Survey of general equilibrium and welfare theory; proof of the existence and stability of equilibrium allocations, their welfare interpretation, welfare functions, externalities, the possibility theorem, the theory of clubs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ECON
984

Advanced Macroeconomic Theory II

[LINK \(http://bulletin.unl.edu/courses/ECON/984\)](http://bulletin.unl.edu/courses/ECON/984)

Advanced topics in macroeconomic fluctuations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ECON
996

Directed Reading or Research

[LINK \(http://bulletin.unl.edu/courses/ECON/996\)](http://bulletin.unl.edu/courses/ECON/996)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

ECON
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/ECON/999\)](http://bulletin.unl.edu/courses/ECON/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

MNGT
466/866

The Regulatory Environment for Employment and Labor

[LINK \(http://bulletin.unl.edu/courses/MNGT/466\)](http://bulletin.unl.edu/courses/MNGT/466)

Crosslisted as *ECON 485/885*

Prereqs:
Junior Standing; [MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360) and [361 \(http://bulletin.unl.edu/courses/MNGT/361\)](http://bulletin.unl.edu/courses/MNGT/361) (departmental permission is required if [MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360) and/or [MNGT 361 \(http://bulletin.unl.edu/courses/MNGT/361\)](http://bulletin.unl.edu/courses/MNGT/361) have not been completed). [ECON 381 \(http://bulletin.unl.edu/courses/ECON/381\)](http://bulletin.unl.edu/courses/ECON/381) FOR ECON students.

Government regulation of employment and labor relations. Includes laws and agencies relating to employment practices, pay, hours, equal employment opportunity, labor relations, safety, health, pensions, and benefits. Social and economic implications of governmental regulation considered.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

POLS

Pro-seminar in International Relations I

[LINK \(http://bulletin.unl.edu/courses/POLS/466\)](http://bulletin.unl.edu/courses/POLS/466)

466/866

Prereqs:
Senior standing and permission.

Open to students with an interest in international relations.

Topic varies

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	International Relations

POLS

467/867**Pro-seminar in International Relations II**

Crosslisted as ECON 467/867

[LINK \(http://bulletin.unl.edu/courses/POLS/467\)](http://bulletin.unl.edu/courses/POLS/467)

Prereqs:
Senior standing and permission.

Open to students with an interest in international relations.

Topics vary.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	International Relations

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- [2 Joint Programs \(#Joint Programs\)](#)
 - [2.1 Joint Statistics and Economics Ph.D. \(#Joint Statistics and Economics Ph.D.\)](#)
 - [2.2 Masters of Education with a Focus on Economic Education \(#Masters of Education with a Focus on Economic Education\)](#)
- [3 Faculty \(#Faculty\)](#)

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Economics). (<http://www.unl.edu/gradstudies/prospective/programs/Economics>)

Department Chair: Scott M. Fuess, Jr., Ph.D.

Graduate Committee Chair: Matthew J. Cushing, Ph.D.

<http://www.cba.unl.edu/departments/economics> (<http://www.cba.unl.edu/departments/economics>)

The Department of Economics offers a doctor of philosophy degree and a master of arts degree.

Master of Arts Degree

Three options are available to MA students: Option I is a 30-hour program that provides the opportunity to write a masters thesis; Option II is a 36-hour applied degree program that includes an outside area of concentration; and Option III is a 36-hour PhD-leading track that provides the opportunity to continue directly into the doctoral program.

All students pursuing the MA degree must demonstrate mastery of microeconomic theory, macroeconomic theory, and econometrics by passing appropriate courses in each of these areas with grades of B or better in each course. MA candidates are required to undergo a comprehensive examination in their field of specialization.

Doctor of Philosophy Degree

All doctoral students must pass a Qualifying Examination in Advanced Economic Theory by the end of the third semester after entry into the program. The department offers courses in advanced micro and macro economic theory to help prepare students for the Qualifying Examination. In addition to advanced economic theory, PhD students are required to pass two econometrics courses with a B or better grade in each course. Furthermore, doctoral candidates choose two major areas of specialization. Six hours of work at the 900 level constitute the formal minimum requirement in a major field. Every doctoral aspirant must undergo comprehensive written and oral examinations covering his/her areas of study. The doctoral dissertation must be a thorough and well-written original investigation in economics.

In all other respects, the requirements for the degrees of master of arts or doctor of philosophy in economics conform to the general rules of the Graduate College. There is no formal language requirement for the PhD degree.

Admission

The minimum general requirement for admission to the economics graduate program is an undergraduate degree from an accredited American or foreign college

or university. PhD applicants are required to provide GRE aptitude test scores. MA applicants may substitute GMAT scores.

Course requirements for admission to the masters program without deficiencies are a semester each of intermediate level macroeconomic theory, microeconomic theory, statistics, and calculus. Students are also strongly advised to have additional background in calculus and matrix algebra. The absence of adequate background in probability, statistics, and calculus can be a serious impediment to success in any graduate program in economics. A one semester calculus course for business or social science students often proves to be inadequate preparation.

Applicants to the PhD program (and applicants to the masters program anticipating the possibility of pursuing the PhD degree), should have a full calculus sequence, mathematical statistics, and matrix algebra in their backgrounds.

Applicants who lack required background may be considered for provisional admission. Unless specific prerequisites are indicated, the general prerequisite for all courses in the 800 and 900 series is graduate standing, including the removal of any undergraduate deficiencies, or permission of the instructor teaching the course.

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Joint Programs

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Joint Statistics and Economics Ph.D.

For additional information, please see the description on the [Department of Statistics](http://www.unl.edu/gradstudies/prospective/programs/Statistics) (<http://www.unl.edu/gradstudies/prospective/programs/Statistics>) Web page.

Program Overview

This program is designed to allow a student to earn an interdisciplinary PhD in the fields of Statistics and Economics. Students obtaining this degree are expected to make meaningful research contributions to both fields.

The program will be overseen by a four-person committee (Oversight Committee), comprised of 2 faculty members from each department. The 2 members from each department will be chosen by the relevant departmental Graduate Advisory Committee with input from the relevant departmental Chair. The committee is a subcommittee of the Graduate Advisory Committees of the two Departments.

Entrance to the Program

A student may apply to the program by request, either as a new student or as a current student. Admission must be approved by the Graduate Chairs of both Departments. As a general guide, students considered for the program should demonstrate backgrounds of sufficient strength to warrant entrance into the PhD program of both departments.

Students entering the joint Statistics/Economics PhD program are expected to have intermediate level training in economics (both macroeconomics and microeconomics) and adequate mathematical background including 3 semesters of calculus, a course in linear algebra and a course in mathematical statistics.

Qualifying Examinations

Students are required to pass the PhD qualifying exams of both departments. The Statistics qualifying exam is over STAT 882, 883, 970, 802. The Economics qualifying exam is over ECON 973,974,983,984.

Supervisory Committee

The graduate chairs of each department shall jointly appoint a supervisory committee: thus both graduate committee chairs must sign the Appointment of Supervisory Committee form. The committee must consist of equal numbers of faculty from each department. The committee will be co-chaired by a faculty member from each department and two readers with one reader from each department. A faculty member cannot serve as both a reader and a co-chair on the committee. The committee must approve the program of study and special details of the program.

Program of Study

The program of study must consist of at least 90 hours. In addition, the program of study must include 30 hours in Statistics courses and 30 hours of Economics courses. The following courses must be included in the program of study, unless credit has been granted for equivalent courses taken elsewhere:

- **Statistics:** Stat 802, 882, 883, 970, 971 (Statistical Modeling), STAT 980; (Advanced Probability) and STAT 982 and 983 (Advanced Inference I and II) and 6 additional hours of 900 level classes, excluding STAT 970, STAT 997 and STAT 999.
- **Economics:** ECON 973, 974, 983, 984 (Core Theory), ECON 957, 958, 959, 960 (Econometric Theory) and at least two 900 level economics courses in an economics field other than econometrics.

Research tool requirement

The Statistics research tool requirement will be met by considering Economics to be a 'collateral field'. Students are expected to be proficient in at least one statistical computing language such as SAS, S-Plus, R, Statistica, SPSS, IMSL, Gauss etc.

Comprehensive Examination

The student's PhD Supervisory Committee will determine the timing and the content of the PhD comprehensive exam in Statistics. In addition, the students will take a comprehensive examination in a field of economics other than Econometrics. The written comprehensive exam will not be a repetition of course materials but an investigation of the student's breadth of understanding of the fields of knowledge. Upon completion of the written comprehensive examinations, the student's supervisory committee will meet administer an oral examination.

Dissertation

The PhD dissertation will be developed under the supervision of the co-advisors on a topic approved by the student's PhD graduate committee and is expected to make an original contribution to both areas. See the Graduate Studies Bulletin for further requirements for the PhD dissertation.

Final Oral Exam

After the dissertation is completed, the student takes a final oral exam. This exam, also called a "thesis defense," is open to the public. Complete details of the final examination procedure are in the Graduate Studies Bulletin.

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Masters of Education with a Focus on Economic Education

please see the brochure at http://cba.unl.edu/about/centers/cee/documents/focus_brochure.pdf (http://cba.unl.edu/about/centers/cee/documents/focus_brochure.pdf).

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Economics). (<http://www.unl.edu/gradstudies/prospective/programs/Economics>)

Retrieved from "<http://bulletin.unl.edu/graduate/Economics> (<http://bulletin.unl.edu/graduate/Economics>)"
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Education

Subject Areas

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- [Educational Psychology \(EDPS\) \(#EDPS\)](#)
- [Special Education \(SPED\) \(#SPED\)](#)
- [Speech-Language Pathology and Audiology \(SLPA\) \(#SLPA\)](#)
- [Teaching, Learning and Teacher Education \(TEAC\) \(#TEAC\)](#)

Q

Courses for EDUC (EDUC)

SPED

892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or parallel; [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

Q

Courses for CEHS (CEHS)

CEHS

467/867

International Cultures Experience in the Local Community

[LINK \(http://bulletin.unl.edu/courses/CEHS/467\)](http://bulletin.unl.edu/courses/CEHS/467)

*Lecture and discussion will be required as part of the field discussion.
Field hours will be assigned at the rate of three hours per week.*

An international cultural experience in the local community by providing field-based learning experiences in community centers, schools, and human services agencies in the local community. The course will study immigrant families in the U.S. through observing and participating in community activities and through readings, discussions, and reflective journaling that integrate lessons from the field with theory and research.

Credit Hours:	3
Course Format:	Field 3
Course Delivery:	Classroom, Web

CEHS

494/894

International Experience in Communities, Schools, and Families [LINK \(http://bulletin.unl.edu/courses/CEHS/494\)](http://bulletin.unl.edu/courses/CEHS/494)

Lecture and discussion will be required as part of the field experience.
Field hours will be assigned at the rate of two hours per week per student credit hour.

Instructor-guided experiences of a culture in another nation in order to critically examine individual and cross-cultural differences in values, lifestyles, education, history and culture of international families, schools, and communities.

Credit Hours:	1-6
Max credits per semester:	3
Max credits per degree:	6
Course Format:	Field 2
Course Delivery:	Classroom

Ω

Courses for EDAD (EDAD)

EDAD

421/821

Foundations of Human Resource Development[LINK \(http://bulletin.unl.edu/courses/EDAD/421\)](http://bulletin.unl.edu/courses/EDAD/421)

Lays the foundation for further study of Human Resource Development (HRD) by examining the knowledge of HRD professionals, the roles they play, and the organizational settings in which HRD occurs. The design and development of education and training programs, how change occurs in organizations, how career development can optimize the match between individual and organizational goals and needs, and how to improve performance in organizations by analyzing performance opportunities and designing employee training to address these opportunities.

Credit Hours:	3
Course Delivery:	Classroom

EDAD

422/822

Instructional Design in Human Resource Development[LINK \(http://bulletin.unl.edu/courses/EDAD/422\)](http://bulletin.unl.edu/courses/EDAD/422)

Examines the role of instruction for enhancing human learning and performance in organizations. The analysis of performance problems/opportunities and design of interventions for learning and performance improvement. The essential components of instruction, selecting instructional methods and media to achieve program objectives, the transfer of learning, and evaluating the effectiveness of instruction. The performance enhancing potential of systematically linking needs analysis, instructional design, and program evaluation.

Credit Hours:	3
Course Delivery:	Classroom

EDAD

801

Cross-Cultural Leadership Studies[LINK \(http://bulletin.unl.edu/courses/EDAD/801\)](http://bulletin.unl.edu/courses/EDAD/801)

Prereqs:
Permission

For those interested in exploring leadership and leadership issues from a cross-cultural perspective. Students construct their understanding of different cultural perspectives on leadership through readings, interviews, and field trips. Provides students with a valuable perspective on their own and other cultural perspectives through the comparison of cultural viewpoints. Native American understanding of leadership.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

811

Practicum in Educational Administration and Supervision[LINK \(http://bulletin.unl.edu/courses/EDAD/811\)](http://bulletin.unl.edu/courses/EDAD/811)

Prereqs:
Permission

Credit Hours:	3-4
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May be repeated for credit. Rating and supervision of teachers; principles and procedures in the development of school policies; selection and promotion of teachers; courses of study and professional ethics.

Max credits per degree: 8

Campus:

Course Delivery: Classroom

EDAD

813

Administration in Physical Education and Athletics

[LINK \(http://bulletin.unl.edu/courses/EDAD/813\)](http://bulletin.unl.edu/courses/EDAD/813)

Organization and administration of physical education and athletic programs in colleges and school systems. Practices and policies as they relate to various situations and problems and in the theoretical base for these practices and policies.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

814

Risk Management for Sport Facilities

[LINK \(http://bulletin.unl.edu/courses/EDAD/814\)](http://bulletin.unl.edu/courses/EDAD/814)

Legal and risk management aspects of construction, supervision, and management of sport, athletic, and recreation indoor and outdoor facilities.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

830

Administrative Theory in Educational Organizations

[LINK \(http://bulletin.unl.edu/courses/EDAD/830\)](http://bulletin.unl.edu/courses/EDAD/830)

Introduction to classic and contemporary administrative theory as applied to educational organizations. The theoretical nature of the course content is relevant to those with an interest in a broad variety of educational institutions. General organizational theory, organizational models, historical schools of administrative theory, authority, power, motivation, and leadership. Frequently students are involved in studying problems of practice as a means of testing theory.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

833

Educational Finance

[LINK \(http://bulletin.unl.edu/courses/EDAD/833\)](http://bulletin.unl.edu/courses/EDAD/833)

Critical analysis of the political and economic elements impacting K-12 school finance. Content and activities address both building and district level concerns with an emphasis on principles, programs, and trends in school finance.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

835

Business Management of Schools

[LINK \(http://bulletin.unl.edu/courses/EDAD/835\)](http://bulletin.unl.edu/courses/EDAD/835)

Allocation and management of fiscal resources including aspects of financial planning and reporting, budgeting and accounting procedures, purchasing, risk management and insurance, investing and bond issues, and auxiliary service.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

836

Planning for Change

[LINK \(http://bulletin.unl.edu/courses/EDAD/836\)](http://bulletin.unl.edu/courses/EDAD/836)

Rationale for planning in a changing environment will be explored; the theoretical base for planning presented; strategic, futuristic planning and operational planning explored; the development of planning strategies, techniques and procedures; the process of evaluation, feedback and

Credit Hours: 2-3

Campus:

Course Delivery: Classroom

revisions explored; and the management of the change process analyzed.

EDAD

837

Education Law

[LINK \(http://bulletin.unl.edu/courses/EDAD/837\)](http://bulletin.unl.edu/courses/EDAD/837)

Evolution, principles, and practice of education law in relation to local, state, and national units of organization. Education law of Nebraska.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

838

Educational Surveys

[LINK \(http://bulletin.unl.edu/courses/EDAD/838\)](http://bulletin.unl.edu/courses/EDAD/838)

School systems and its educational program in terms of needs of attendance area served. Organization and interpretation of pertinent data and formulation of recommendations for improvement of educational systems. Long-range planning.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

839

Educational Facilities

[LINK \(http://bulletin.unl.edu/courses/EDAD/839\)](http://bulletin.unl.edu/courses/EDAD/839)

Techniques for planning educational facilities through use of surveys, educational specifications, and standards. Function of the school administrator in school facilities planning, construction, and utilization.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

842

College Students in America

[LINK \(http://bulletin.unl.edu/courses/EDAD/842\)](http://bulletin.unl.edu/courses/EDAD/842)

This course is designed to provide students an understanding of a broad range of facts and issues pertaining to undergraduate college students in America.

Credit Hours:	3
Course Format:	Lecture 2.33
Course Delivery:	Classroom

EDAD

843

Counseling Principles for Educational Administrators

[LINK \(http://bulletin.unl.edu/courses/EDAD/843\)](http://bulletin.unl.edu/courses/EDAD/843)

This is an introductory level counseling course designed specifically for educational administrators. It is not intended to prepare individuals to become professional counseling practitioners. It offers a broad overview of counsel principles. This is a theory-to-practice course.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDAD

851

Faculty and Staff Appraisal

[LINK \(http://bulletin.unl.edu/courses/EDAD/851\)](http://bulletin.unl.edu/courses/EDAD/851)

Faculty and support staff in P-12 schools: appraisal, professional learning communities, high standards/high performance and accountability.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

852

School Culture and Student Behavior

[LINK \(http://bulletin.unl.edu/courses/EDAD/852\)](http://bulletin.unl.edu/courses/EDAD/852)

School culture and student behavior in P-12 schools. Personalized teaching

Credit Hours:	3
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and learning environments that address student diversity, needs and interests.

Campus:

Course Delivery: Classroom

EDAD **855** **Teaching Learners to Learn**

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD **856** **Supervising Special Education**

Crosslisted as *SPED 856*

[LINK \(http://bulletin.unl.edu/courses/EDAD/856\)](http://bulletin.unl.edu/courses/EDAD/856)

For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD **857** **Special Education Administration**

Crosslisted as *SPED 857*

[LINK \(http://bulletin.unl.edu/courses/EDAD/857\)](http://bulletin.unl.edu/courses/EDAD/857)

Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD **858** **Special Education Law**

Crosslisted as *SPED 858*

[LINK \(http://bulletin.unl.edu/courses/EDAD/858\)](http://bulletin.unl.edu/courses/EDAD/858)

Body of law that pertains to the organization, administration, and implementation of special education programs in PreK-12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD **870** **Constitutional Law I**

Crosslisted as *LAW 609G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/870\)](http://bulletin.unl.edu/courses/EDAD/870)

Structure of the federal government, including the history and judicial interpretation of the Constitution, federalism, interstate commerce, due process, equal protection, and separation of powers.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD **871** **Constitutional Law II**

Crosslisted as *LAW 732G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/871\)](http://bulletin.unl.edu/courses/EDAD/871)

Emphasizes protected individual civil liberties. The origin and modern applicability of the state action concept in constitutional litigation; the scope of congressional power to enforce the post Civil War amendments; freedom

Credit Hours: 1-4

Campus:

of speech, association, and press; and constitutional principles enforcing the first amendment's command that "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof."

Course Delivery: Classroom

EDAD
872 Introduction to Law, Legal Process, and Legislation

[LINK \(http://bulletin.unl.edu/courses/EDAD/872\)](http://bulletin.unl.edu/courses/EDAD/872)

How law is made and changed, the role of the individual, the business corporation, the private association, the administrative agency, the voting public, the legislature, and the courts in making and changing law.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD
874 Torts I
Crosslisted as LAW 503G

[LINK \(http://bulletin.unl.edu/courses/EDAD/874\)](http://bulletin.unl.edu/courses/EDAD/874)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours: 1-6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDAD
875 Torts II

[LINK \(http://bulletin.unl.edu/courses/EDAD/875\)](http://bulletin.unl.edu/courses/EDAD/875)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours: 1-6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDAD
880B Designing Instructional Technology K-12

[LINK \(http://bulletin.unl.edu/courses/EDAD/880B\)](http://bulletin.unl.edu/courses/EDAD/880B)

Credit Hours: 1-3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

EDAD
890 Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/890\)](http://bulletin.unl.edu/courses/EDAD/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD
893 Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/893\)](http://bulletin.unl.edu/courses/EDAD/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD
Independent Study

896**Prereqs:**
Permission

Selected topic with the direction and guidance of a staff member.

[LINK \(http://bulletin.unl.edu/courses/EDAD/896\)](http://bulletin.unl.edu/courses/EDAD/896)

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD
899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/EDAD/899\)](http://bulletin.unl.edu/courses/EDAD/899)**Prereqs:**
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

EDAD
901**System-Level School Improvement**[LINK \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901)This course is a prerequisite for: [EDAD 902 \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

Knowledge and skills required for system-level leaders to bring about school improvement and enhance student achievement. Creating systems that engage the public, performing in complex political environments, and delivering needed services to schools and classrooms.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
902**Data for Action Planning**[LINK \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)**Prereqs:**
[EDAD 901 \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901).*EDAD 902 (http://bulletin.unl.edu/courses/EDAD/902) requires developing an initial school improvement plan.*

Assessment theory and types of assessments used to measure student performance relative to a school improvement goal. Relationships between profile data and baseline data, locally developed classroom assessments, and post data pertaining to school improvement goals and action plans.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
903**Issues in Community Relations**[LINK \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903)This course is a prerequisite for: [EDAD 904 \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

Principles of community relations and public relations; development of school and community understanding; collaboration of educators and community agents and agencies; communication tools and evaluation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
904**Analysis in Continuous Improvement**[LINK \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)**Prereqs:**
[EDAD 903 \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903).*EDAD 904 (http://bulletin.unl.edu/courses/EDAD/904) requires generating recommendations for proceeding into the next cycle of school improvement and conducting a personal self-analysis of improvement process skills and obtain information from supervisors and/or colleagues regarding abilities as a*

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Analyze how staff attitudes and behaviors are impacted through the improvement process.

EDAD

905

Issues in Governance of Educational Institutions

[LINK \(http://bulletin.unl.edu/courses/EDAD/905\)](http://bulletin.unl.edu/courses/EDAD/905)

Issues in the governance of K–12 schools including administrator–school board roles and relationships.

Credit Hours: 1–3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

EDAD

906

Issues in System Level Administration

[LINK \(http://bulletin.unl.edu/courses/EDAD/906\)](http://bulletin.unl.edu/courses/EDAD/906)

Prereqs:
Masters degree or equivalent.

Selected system level issues faced by pre–K to grade 12 school administrators.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

907

Issues in Educational Politics and Policies

[LINK \(http://bulletin.unl.edu/courses/EDAD/907\)](http://bulletin.unl.edu/courses/EDAD/907)

Analyze and evaluate policy processes involved in making choices; develop understanding, apply and evaluate knowledge about key political concepts and theories to the analysis of educational policy issues; analyze and evaluate issues as points of political conflict between institutional structures with competing interests; understand people as the actors in roles they occupy in the political system.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

908/929

Seminar in Adult and Continuing Education

Crosslisted as *EDPS 929*

[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Credit Hours: 1–6

Campus:

Course Delivery: Classroom

EDAD

909

Seminar in Human Resource Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/909\)](http://bulletin.unl.edu/courses/EDAD/909)

Prereqs:
[EDAD 821 \(http://bulletin.unl.edu/courses/EDAD/821\)](http://bulletin.unl.edu/courses/EDAD/821) or [822 \(http://bulletin.unl.edu/courses/EDAD/822\)](http://bulletin.unl.edu/courses/EDAD/822)

Current research and theory within the field of human resource development, broadly defined. Stresses key problems affecting the training, development, and education of human resources within organizational settings.

Credit Hours: 1–3

Campus:

Course Delivery: Classroom

EDAD

910

The Higher Education Environment

[LINK \(http://bulletin.unl.edu/courses/EDAD/910\)](http://bulletin.unl.edu/courses/EDAD/910)

Universities are adaptive, living systems interacting with their environment. Equips participants with the skills required to analyze and assess the environment of higher education institutions. Environment concepts, components and structures are studied together with analysis techniques and methodological approaches to future study.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD **912A** **Educational Leadership in Higher Education**

[LINK \(http://bulletin.unl.edu/courses/EDAD/912A\)](http://bulletin.unl.edu/courses/EDAD/912A)

Strategic thinking, application of leadership theories in the educational setting. Develop a clear personal philosophy of leadership and engage in collaborative active-learning. Multi-media simulations and/or scenarios and role playing to examine options, consequences, and leadership effectiveness in decision-making.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD **912B** **Educational Leadership in Community Colleges**

[LINK \(http://bulletin.unl.edu/courses/EDAD/912B\)](http://bulletin.unl.edu/courses/EDAD/912B)

Issues facing community college leaders and the knowledge, skills, and competencies necessary to provide effective leadership in the community college setting. Case studies of community colleges, combined with the literature on community college leadership, and active learning opportunities to examine current practices and develop a personal philosophy of leadership.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD **921** **Administrative Issues in Higher Education**

[LINK \(http://bulletin.unl.edu/courses/EDAD/921\)](http://bulletin.unl.edu/courses/EDAD/921)

Introduction to contemporary issues in the administration of higher education with a focus on the scholarly literature, a comparative analysis of administration in types of institutions, leadership and planning, institutional and environmental issues, and selected topics.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD **922** **Finance in Higher Education**

[LINK \(http://bulletin.unl.edu/courses/EDAD/922\)](http://bulletin.unl.edu/courses/EDAD/922)

Federal and state government funding, institutional planning, technological and community influences, human resources finance, budgeting, and sources of financial support as they relate to higher education institutions and agencies.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD **923** **The Community/Junior College**

[LINK \(http://bulletin.unl.edu/courses/EDAD/923\)](http://bulletin.unl.edu/courses/EDAD/923)

Designed particularly for those interested in upper secondary and college levels. Junior college movement; relationship of movement to provisions for an adequate educational program; functions of the junior college; legal status and basis for extension of junior college; problems of organization, administration, and curriculum.

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

EDAD **924** **Administration of Higher Education Instructional Programs**

[LINK \(http://bulletin.unl.edu/courses/EDAD/924\)](http://bulletin.unl.edu/courses/EDAD/924)

Administration of higher education instructional programs. Exploration of curricular issues including an assessment of program quality and reputation, program reallocations, retrenchments, and expansions.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

925

Law and Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/925\)](http://bulletin.unl.edu/courses/EDAD/925)

Examination of legal principles applicable to higher education institutions. Overview of the legal system, higher education institutions as legal entities, authority for governance and administration, faculty rights and responsibilities, student rights and responsibilities, institutional and personal liability, and other selected issues.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

926

The American Professoriate: An Administrative Perspective

[LINK \(http://bulletin.unl.edu/courses/EDAD/926\)](http://bulletin.unl.edu/courses/EDAD/926)

Contemporary faculty issues in postsecondary education institutions from the perspective of college administrators. Current status of faculty, assigning faculty workloads and monitoring performance levels, evaluating faculty performance, structuring development activities, and special topics.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

931

Higher Education Information Systems

[LINK \(http://bulletin.unl.edu/courses/EDAD/931\)](http://bulletin.unl.edu/courses/EDAD/931)

Foundation in management information systems. Issues in information systems, current research and writings, key terms, and how information systems impacts organizational culture, business processes, work-flow, and overall operations of an institution. The roles in the application, analysis, and management of higher education administration technology.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

932

Global Issues in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/932\)](http://bulletin.unl.edu/courses/EDAD/932)

Selected issues affecting global educational policies and practices.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

933

Strategic Planning

[LINK \(http://bulletin.unl.edu/courses/EDAD/933\)](http://bulletin.unl.edu/courses/EDAD/933)

EDAD 933 (http://bulletin.unl.edu/courses/EDAD/933) requires the student to analyze their respective institution's planning process and plan, and to participate in a simulation activity that reinforces the principles and practices of strategic planning.

System theory, practice and problem solving. The strategic planning process in higher education. Models of strategic planning.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

934

Teaching and Learning in the Community College

[LINK \(http://bulletin.unl.edu/courses/EDAD/934\)](http://bulletin.unl.edu/courses/EDAD/934)

Develop comprehensive understanding of five aspects of the community college: Curricular missions in general education, transfer education, career education, remedial/developmental education and community education; faculty and student populations; exemplary teaching and assessment of student learning outcomes; program and curriculum development; and human resources aspects related to instructional programs in hiring faculty and providing faculty development programs.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

935

Workforce, Economic, and Community Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/935\)](http://bulletin.unl.edu/courses/EDAD/935)

Workforce, economic and community development role of higher education within the broader context of recent economic, social, and technological changes in communities, society, and the economy. Applicable to higher education in general with an emphasis on the example of two-year community colleges.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

948

Instructional Leadership: Emerging Trends and Practices

Crosslisted as *TEAC 948*

[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

956

Employment Law Seminar

Crosslisted as *LAW 759G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/956\)](http://bulletin.unl.edu/courses/EDAD/956)

Selected current national and state legal issues pertaining to private and public employment.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

959

Law and Educational Administration

Crosslisted as *LAW 695G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/959\)](http://bulletin.unl.edu/courses/EDAD/959)

Current legal issues of national significance relating to educational institutions; analysis of constitutional provisions, statutes, and court decisions affecting education; separation of church and state; rights of equality; student rights, responsibilities, and discipline; application of criminal and juvenile provisions; use of school property; control of the curriculum and extracurricular activities; contractual and tort liability; hiring, collective actions, tenure, outside activities, discharge, and retirement of teachers; confidentiality; accrediting agencies; and similar current legal matters.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

960

Public Employment Law

[LINK \(http://bulletin.unl.edu/courses/EDAD/960\)](http://bulletin.unl.edu/courses/EDAD/960)

Legal issues relating to public employment with particular emphasis on public schools and colleges; collective bargaining by public employees, impasse, and resolution of public employee disputes; grievances, arbitration, and enforcement of agreements; civil rights of public employees; and laws applicable to public employment apart from collective bargaining, such as discrimination acts, wage and hour laws, retirement plans, and public records.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

961**Trial Advocacy**[LINK \(http://bulletin.unl.edu/courses/EDAD/961\)](http://bulletin.unl.edu/courses/EDAD/961)**Prereqs:**[LAW 646G \(http://bulletin.unl.edu/courses/LAW/646G\)](http://bulletin.unl.edu/courses/LAW/646G).

Students perform weekly exercises which are videotaped and critiqued and will try a case. Fundamentals of trial practice. Emphasis on questioning witnesses, selecting and addressing the jury, and admitting items into evidence.

Credit Hours: 1-4**Campus:****Course Delivery:** Classroom

EDAD

963**Legislation Seminar**Crosslisted as *LAW 777G*[LINK \(http://bulletin.unl.edu/courses/EDAD/963\)](http://bulletin.unl.edu/courses/EDAD/963)

Development of further skills in drafting and interpreting statutes, understanding legislative processes and decision making, and evaluating the role of legislation in governmental regulation. Opportunity for in-depth study of subjects pertaining to or involving legislation, centering on subjects considered by the Nebraska Legislature and the Nebraska legislative process.

Credit Hours: 1-4**Campus:****Course Delivery:** Classroom

EDAD

964**Local Government Law**Crosslisted as *LAW 788G*[LINK \(http://bulletin.unl.edu/courses/EDAD/964\)](http://bulletin.unl.edu/courses/EDAD/964)

Law of local government units with emphasis on current problems in the operation and administration of local government, models and theories of local government.

Credit Hours: 1-4**Campus:****Course Delivery:** Classroom

EDAD

966**Seminar in Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/966\)](http://bulletin.unl.edu/courses/EDAD/966)**Prereqs:****Permission**

Education administration problems with an analysis of research and literature pertaining to these problems.

Credit Hours: 1-3**Max credits per degree:** 6**Campus:****Course Delivery:** Classroom

EDAD

968**Education Law Seminar**Crosslisted as *LAW 621G*[LINK \(http://bulletin.unl.edu/courses/EDAD/968\)](http://bulletin.unl.edu/courses/EDAD/968)

Selected current national and state legal issues pertaining to education.

Credit Hours: 1-4**Campus:****Course Delivery:** Classroom

EDAD

970**Criminal Law**Crosslisted as *LAW 508G*[LINK \(http://bulletin.unl.edu/courses/EDAD/970\)](http://bulletin.unl.edu/courses/EDAD/970)

Substantive criminal law, focusing on the theoretical foundations, general principles, and doctrines that govern the rules of liability and defenses, both in the common law tradition and under the Model Penal Code.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

EvidenceCrosslisted as *LAW 646G*[LINK \(http://bulletin.unl.edu/courses/EDAD/971\)](http://bulletin.unl.edu/courses/EDAD/971)

971

Relevancy and admission of evidence, including hearsay, opinions, privileges, other exclusionary rules, examination of witnesses, judicial notice, and physical evidence.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

973**Jurisprudence**Crosslisted as *LAW 672G*[LINK \(http://bulletin.unl.edu/courses/EDAD/973\)](http://bulletin.unl.edu/courses/EDAD/973)

What is good and what is bad about law; the judicial process; principal schools of jurists; theories of the nature of law and the legal order; the American social system and the law; obligations to obey or to disobey the law; and ideas of justice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

976**Legal Control of Discrimination**Crosslisted as *LAW 680G*[LINK \(http://bulletin.unl.edu/courses/EDAD/976\)](http://bulletin.unl.edu/courses/EDAD/976)

Selected legal issues pertaining to the legal control of discrimination.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

977**Constitutional History**Crosslisted as *LAW 619/619G*[LINK \(http://bulletin.unl.edu/courses/EDAD/977\)](http://bulletin.unl.edu/courses/EDAD/977)

American constitutional history with a focus on "transformative" moments at which the Constitution and the nature of American politics and government changed. American Revolution and the framing of the Constitution and Bill of Rights, Civil War and Reconstruction, and the New Deal. Exploration of the courts and how they stood on history and original intent when they interpret the Constitution.

Credit Hours:	1-4
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDAD

978**Mass Communications Law**Crosslisted as *LAW 649G*[LINK \(http://bulletin.unl.edu/courses/EDAD/978\)](http://bulletin.unl.edu/courses/EDAD/978)

In-depth focus on the first amendment. Includes legal distinctions between the print and broadcast media, free press and fair trial, access to media, and licit and illicit ideas.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

979**Seminar in College Student Personnel Work**Crosslisted as *EDPS 979*[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research literature, some field experiences, and in-depth examination of special topics.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDAD

981**Introduction to Research**[LINK \(http://bulletin.unl.edu/courses/EDAD/981\)](http://bulletin.unl.edu/courses/EDAD/981)

A written report is required. Investigation and analysis of current problems

Credit Hours:	1-6
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in education administration and supervision.

Campus:

Course Delivery: Classroom

EDAD

988

Dissertation Proposal Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/988\)](http://bulletin.unl.edu/courses/EDAD/988)

Prereqs:

Admission to a doctoral program

Intended for students who are working on the development of their dissertation proposal. Component parts of the dissertation proposal. Students from all areas of Teachers College and the University of Nebraska who are in the process of developing their proposal will find this course to be of use. Typically the course should be taken after the research tools have been completed.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

989

Survey of Administrative Research

[LINK \(http://bulletin.unl.edu/courses/EDAD/989\)](http://bulletin.unl.edu/courses/EDAD/989)

Intended primarily for students of education who are candidates for doctoral degrees. Readings, discussions, and an analysis of educational problems and research.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/990\)](http://bulletin.unl.edu/courses/EDAD/990)

Refer to *Workshop Seminars in Education* under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD

991

Field Studies in Education

Crosslisted as *NUTR 991, TEAC 991*

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:

Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDAD

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/993\)](http://bulletin.unl.edu/courses/EDAD/993)

Refer to *Workshop Seminars in Education* under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/995\)](http://bulletin.unl.edu/courses/EDAD/995)

Prereqs:

Permission

Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students

Credit Hours: 3

Max credits per degree: 18

Campus:

Course Delivery: Classroom

develop, execute and report one or more projects addressing the interaction between research and practice. Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor.

EDAD

998

Seminar: Internship in Educational Administration

[LINK \(http://bulletin.unl.edu/courses/EDAD/998\)](http://bulletin.unl.edu/courses/EDAD/998)

Prereqs: Permission

Opportunity for educational administrators to gain an understanding of administering changes or innovations, and to obtain supervised field experience. Consideration will be given antecedents of change, change models, the role of government, forces that restrict or stimulate change, tools to implement change, and evaluation.

Credit Hours:	1-6
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDAD

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/EDAD/999\)](http://bulletin.unl.edu/courses/EDAD/999)

Prereqs: Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

EDPS

900J

Historical Methods in Educational Research

Crosslisted as *EDAD 900J*

[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)

Prereqs: EDPS *800 or equivalent; EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

977

Seminar in College Student Development

Crosslisted as *EDAD 980*

[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED

892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs: EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC

425/825

Coordination in Occupational Training ProgramsCrosslisted as *EDAD 825*[LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours:	1-3
Course Delivery:	Classroom

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Courses for EDPS (EDPS)

ANTH

478/878

Pro-seminar in Latin American StudiesCrosslisted as *HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878*[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)**Prereqs:****Junior standing and permission.***Topical seminar required for all Latin American Studies majors.*

An interdisciplinary analysis of topical issues in Latin American Studies.

Credit Hours:	3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

EDAD

855

Teaching Learners to LearnCrosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

908/929

Seminar in Adult and Continuing EducationCrosslisted as *EDPS 929*[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD

979

Seminar in College Student Personnel WorkCrosslisted as *EDPS 979*[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research literature, some field experiences, and in-depth examination of special topics.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS

451/851

Psychology of Adolescence[LINK \(http://bulletin.unl.edu/courses/EDPS/451\)](http://bulletin.unl.edu/courses/EDPS/451)

Mental, social, and emotional development of boys and girls during the adolescent period.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

Human Cognition and Instruction

[LINK \(http://bulletin.unl.edu/courses/EDPS/454\)](http://bulletin.unl.edu/courses/EDPS/454)

454/854

Cognitive psychology and its applications in instruction. Memory, problem solving, cognitive process in reading, research approaches, and applications to teaching.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

Statistical Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)

459/859

This course is a prerequisite for: [EDPS 800 \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800), [EDPS 470 \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470), [NUTR 486 \(http://bulletin.unl.edu/courses/NUTR/486\)](http://bulletin.unl.edu/courses/NUTR/486), [EDPS 900A \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A), [EDPS 900B \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B), [EDPS 900D \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D), [EDPS 900I \(http://bulletin.unl.edu/courses/EDPS/900I\)](http://bulletin.unl.edu/courses/EDPS/900I), [EDPS 900K \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Computation and interpretation of measures of central position, variability, and correlation; introduction to sampling, probability, and tests of significance.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	3 [?]

EDPS

Psychology of Disability

[LINK \(http://bulletin.unl.edu/courses/EDPS/462\)](http://bulletin.unl.edu/courses/EDPS/462)

462/862

Research and theoretical literature related to the relationship between various disabling conditions and the psychological functioning of the person with disability.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

Introduction to Applied Behavior Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/463\)](http://bulletin.unl.edu/courses/EDPS/463)

463/863

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Research methods and findings, concepts, and principles of operant conditioning as related to the experimental analysis of human behavioral events and to the development of behavior engineering technologies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDPS

Practices in Counseling and Personnel Services

[LINK \(http://bulletin.unl.edu/courses/EDPS/465\)](http://bulletin.unl.edu/courses/EDPS/465)

465/865

Basic practices and related research in counseling and helping practices in educational or other youth-serving agencies. Specialized applications to populations presenting unique problems are offered in sections B through L. B. Special Practices for Handicapped Children and Youth (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/865A (<http://bulletin.unl.edu/courses/EDPS/865A>). D. Special Practices for Exceptionally Talented and Gifted (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/865A (<http://bulletin.unl.edu/courses/EDPS/865A>). E. Special Practices in the Elementary School (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/865A (<http://bulletin.unl.edu/courses/EDPS/865A>). K. Special Practices for

Credit Hours:	1-8
Max credits per degree:	8
Course Format:	Lecture
Course Delivery:	Classroom

Vocational Education/Development Programs (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A/865A\)](http://bulletin.unl.edu/courses/EDPS/465A/865A) (<http://bulletin.unl.edu/courses/EDPS/865A>). L. Special Practices for Community Helpers Working with Adults (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A/865A\)](http://bulletin.unl.edu/courses/EDPS/465A/865A) (<http://bulletin.unl.edu/courses/EDPS/865A>).

EDPS

469/869

Psychopathological Disorders of Childhood and Adolescence

[LINK \(http://bulletin.unl.edu/courses/EDPS/469\)](http://bulletin.unl.edu/courses/EDPS/469)

Investigation of the genesis, course, classification, and treatment of function and organic pathologies found in children and adolescents.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

470/870

Introduction to Educational and Psychological Measurement

[LINK \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470)

Prereqs:

[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent.

Introduction to the construction, evaluation, and ethical use of measurement instruments commonly used in education and psychology. Test construction principles, item analysis, reliability, validity, ethical issues in testing, and evaluation of standardized tests.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

496/896

Directed Field Experience

[LINK \(http://bulletin.unl.edu/courses/EDPS/496\)](http://bulletin.unl.edu/courses/EDPS/496)

Prereqs:

Permission.

Seminar on current issues or topics in educational psychology. Topics vary.

Credit Hours:	1-24
Course Delivery:	Classroom

EDPS

498/898

Special Topics

[LINK \(http://bulletin.unl.edu/courses/EDPS/498\)](http://bulletin.unl.edu/courses/EDPS/498)

Prereqs:

Permission.

Credit Hours:	1-6
Max credits per semester:	6
Course Delivery:	Classroom

EDPS

800

Foundations of Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800)

Prereqs:

[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent or parallel [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Purposes and characteristics of research process, selection of research problems in education and social sciences, critical review of published research, research ethics and institutional review, sampling methods, threats to validity in research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

845

Computer-Assisted Research Data Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/845\)](http://bulletin.unl.edu/courses/EDPS/845)

Prereqs:
One statistics course beyond [EDPS 859](http://bulletin.unl.edu/courses/EDPS/859)
(<http://bulletin.unl.edu/courses/EDPS/859>)

Pass/No Pass only.

Statistical software packages for both mainframe and microcomputers. How to develop and manage data files; how to transfer data files between computers; and principles of data transformation and selection.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS
846 Foundations of Health Behavior

Crosslisted as *NUTR 846*

[LINK \(http://bulletin.unl.edu/courses/EDPS/846\)](http://bulletin.unl.edu/courses/EDPS/846)

The epidemiological, developmental and cognitive foundation of health-related behaviors and identifies opportunities for health promotion and education.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
847 Theoretical Models of Health Behavior Change

Crosslisted as *NUTR 847*

[LINK \(http://bulletin.unl.edu/courses/EDPS/847\)](http://bulletin.unl.edu/courses/EDPS/847)

Application of widely used theoretical models of health behavior change. Specification of behaviors and development and evaluation of theory-based interventions to reduce health-related risks.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
850 Child Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850)

This course is a prerequisite for: [EDPS 960](http://bulletin.unl.edu/courses/EDPS/960) (<http://bulletin.unl.edu/courses/EDPS/960>), [EDPS 961](http://bulletin.unl.edu/courses/EDPS/961) (<http://bulletin.unl.edu/courses/EDPS/961>), [EDPS 962](http://bulletin.unl.edu/courses/EDPS/962) (<http://bulletin.unl.edu/courses/EDPS/962>), [EDPS 963](http://bulletin.unl.edu/courses/EDPS/963) (<http://bulletin.unl.edu/courses/EDPS/963>)

Advanced study of the behavior and development of preschool and elementary school children.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
853 Psychological Assessment I

[LINK \(http://bulletin.unl.edu/courses/EDPS/853\)](http://bulletin.unl.edu/courses/EDPS/853)

Prereqs:
[EDPS 870](http://bulletin.unl.edu/courses/EDPS/870) (<http://bulletin.unl.edu/courses/EDPS/870>) or equivalent

This course is a prerequisite for: [EDPS 956](http://bulletin.unl.edu/courses/EDPS/956) (<http://bulletin.unl.edu/courses/EDPS/956>)

Basic assessment and testing skills including "behavioral observation", psychometric issues, intake/diagnostic interviewing, psychological testing, test interpretation feedback, and integrative report writing. Commonly used screening instruments, personality tests, career interest inventories, and symptom-based tests.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
860 Applications of Selected Advanced Statistics

[LINK \(http://bulletin.unl.edu/courses/EDPS/860\)](http://bulletin.unl.edu/courses/EDPS/860)

Prereqs:
[EDPS 859](http://bulletin.unl.edu/courses/EDPS/859) (<http://bulletin.unl.edu/courses/EDPS/859>)

Variety of parametric and nonparametric analyses, including analysis of variance (completely randomized design and various factorial designs), regression analysis, analysis of covariance, full model stepwise multiple regression, chi square Mann-Whitney U, and Wilcoxon test. Understanding

Credit Hours: 3

Campus:

Course Delivery: Classroom

and application of these analyses. Appropriate mainframe and microcomputer statistical packages utilized to assist in the numerical analysis of data.

EDPS

866

Counseling Pre-Practicum

[LINK \(http://bulletin.unl.edu/courses/EDPS/866\)](http://bulletin.unl.edu/courses/EDPS/866)

Counseling skills required for basic, entry-level clinical work. Practicing skills, receiving peer/instructor performance feedback, and role-playing clinical situations.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

867

Roles and Functions in School Psychological Services

[LINK \(http://bulletin.unl.edu/courses/EDPS/867\)](http://bulletin.unl.edu/courses/EDPS/867)

Foundations, models, and practices of contemporary school psychology and an exploration of transitions and future developments in the profession. Investigations of the major legal and ethical systems affecting specialists in the schools and the application of standards for ethical professional practice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

868

Multicultural Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/868\)](http://bulletin.unl.edu/courses/EDPS/868)

Prereqs:
EDPS *866 or comparable course or permission

Ethnic subcultures in the US, cross-cultural communication systems, and change strategies. Cultural cues and barriers in counseling, personal assumptions and values, and active experiencing of cultural diversity in the counseling relationship.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/890\)](http://bulletin.unl.edu/courses/EDPS/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

EDPS

893

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/893\)](http://bulletin.unl.edu/courses/EDPS/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

EDPS

897J

Gifted/Talented

[LINK \(http://bulletin.unl.edu/courses/EDPS/897J\)](http://bulletin.unl.edu/courses/EDPS/897J)

Campus:

EDPS

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/EDPS/899\)](http://bulletin.unl.edu/courses/EDPS/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours: 6-10**Campus:****Course Delivery:** Classroom

EDPS

900A**Correlational and Experimental Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent**Credit Hours:** 3**Course Format:** Lecture 3**Campus:****Course Delivery:** Classroom

Integrated view of correlational and experimental research in education and social sciences. Builds on idea of relationships among variables and concept of casual relationships between variables. Possible research designs in light of these general principles.

EDPS

900B**Single Case/Small N Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent**Credit Hours:** 3**Course Format:** Lecture 3**Campus:****Course Delivery:** Classroom

General issues related to the use of single case and/or small N methods, in which individuals are observed over time before and subsequent to experimental intervention. Comparison to traditional experimental methods. Repeated measurement techniques. Various research designs appropriate to single case methods.

EDPS

900D**Survey Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent**Credit Hours:** 3**Campus:****Course Delivery:** Classroom

Principles and applications of survey research. Use of appropriate sampling techniques and applications of survey methods to the study of relative incidence, distribution, and interrelations of educational, sociological, and psychological variables.

EDPS

900J**Historical Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)Crosslisted as *EDAD 900J***Prereqs:**EDPS *800 or equivalent; EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent**Credit Hours:** 3**Course Format:** Lecture 3**Campus:****Course Delivery:** Classroom

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the

methods used by historical researchers. The methodology of historical research.

EDPS
900K

Qualitative Approaches to Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Prereqs:

[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Uses of qualitative research methods in education. The theoretical premises of research using qualitative methods and the application of this information through critique and planning research. Qualitative methods for data collection.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
905

Research and Evaluation Literature on Health Promotion

[LINK \(http://bulletin.unl.edu/courses/EDPS/905\)](http://bulletin.unl.edu/courses/EDPS/905)

Crosslisted as *NUTR 905*

Philosophical and empirical review and critique of contemporary literature on school, community, work place and health care-based health promotion and education programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
935

Seminar in Qualitative Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)

Crosslisted as *TEAC 935*

Prereqs:

[EDUC 900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
936

Mixed Methods Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/936\)](http://bulletin.unl.edu/courses/EDPS/936)

Prereqs:

[EDUC 800 \(http://bulletin.unl.edu/courses/EDUC/800\)](http://bulletin.unl.edu/courses/EDUC/800) or equivalent, and [EDUC 900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K)

[EDPS 936 \(http://bulletin.unl.edu/courses/EDPS/936\)](http://bulletin.unl.edu/courses/EDPS/936) is for students already familiar with quantitative and qualitative research. An introduction to mixed methods research as a distinct methodology in social science research. Topics include the value and use of this approach, philosophical assumptions, various types of design, and approaches to designing and conducting mixed methods research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS
941

Intermediate Statistics: Experimental Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/941\)](http://bulletin.unl.edu/courses/EDPS/941)

Crosslisted as *SRAM 941*

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Computation, interpretation, and application of analysis of variance techniques, including factorial and mixed model designs. Computer and microcomputer software accessed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
942

Intermediate Statistics: Correlational Methods

Crosslisted as *SRAM 942*

[LINK \(http://bulletin.unl.edu/courses/EDPS/942\)](http://bulletin.unl.edu/courses/EDPS/942)

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Various correlational-based statistical procedures presented, including linear and nonlinear regression, multiple regression, statistical control, analysis of interactions, the general linear model, factor analysis, and discriminant analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
948

Multicultural Issues in School Psychological Service Delivery

[LINK \(http://bulletin.unl.edu/courses/EDPS/948\)](http://bulletin.unl.edu/courses/EDPS/948)

Current issues related to psycho-educational service delivery to children and families from different cultural and linguistic backgrounds. Integrating research and field experiences to provide students with skills to develop, implement, and deliver culturally sensitive and effective school psychological services.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
949

Cognitive and Behavioral Therapy with Children and Adolescents

[LINK \(http://bulletin.unl.edu/courses/EDPS/949\)](http://bulletin.unl.edu/courses/EDPS/949)

Prereqs:
Permission

This course is a prerequisite for: [EDPS 955 \(http://bulletin.unl.edu/courses/EDPS/955\)](http://bulletin.unl.edu/courses/EDPS/955)

Cognitive and behavioral techniques. Theoretical issues, application and evaluation of major empirically-validated therapeutic treatments that represent best practices in child and adolescent therapy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
950

Intellectual Assessment

[LINK \(http://bulletin.unl.edu/courses/EDPS/950\)](http://bulletin.unl.edu/courses/EDPS/950)

Prereqs:
or coreq: [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859), [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870), and permission

This course is a prerequisite for: [EDPS 951 \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951)

Formal evaluative methods for the investigation of children's learning difficulties, including supervised practicum in administration, scoring, and interpretation of individually administered tests of cognitive abilities.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDPS
951

Academic and Behavioral Assessment

[LINK \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951)

Prereqs:
[EDPS 950 \(http://bulletin.unl.edu/courses/EDPS/950\)](http://bulletin.unl.edu/courses/EDPS/950) and permission

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Advanced study of the theory and practice in the assessment of educational and psychological problems of children and youth to include assessment of systems that impact on the behavior of children and youth. Assessment techniques include environmental observation, interviewing, standardized assessment procedures for academic skills, adaptive behavior, social and emotional problems, curriculum based assessment, and functional analysis and assessment. Ecological-behavioral basis of assessment is explored. A complete psychological and educational evaluation is conducted in a school or other relevant setting.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDPS

952**Systems of Consultation in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/952\)](http://bulletin.unl.edu/courses/EDPS/952)**Prereqs:**[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863)

Intensive analysis of the theory and practice of various systems of mental health consultation in the schools with special emphasis and practicum with mental health service models other than conventional clinical, psychometric, and direct psychoeducational remediation models.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

953**Psychological Assessment II**[LINK \(http://bulletin.unl.edu/courses/EDPS/953\)](http://bulletin.unl.edu/courses/EDPS/953)**Prereqs:****EDPS *853 or equivalent**

This course is a prerequisite for: [EDPS 956 \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Advanced assessment and testing skills. Selection, administration and interpretation of a battery of psychological tests and integration and synthesis of relevant test and non-test data into an accessible report writing format. Development of effective consultation and test interpretation feedback skills.

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

EDPS

954**Interventions in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)**Prereqs:**

[EDPS 463 \(http://bulletin.unl.edu/courses/EDPS/463\)](http://bulletin.unl.edu/courses/EDPS/463) / [863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863), [EDPS 951 \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951) or parallel; and permission

Prepares school psychologists to plan and provide evidence-based psychoeducational interventions for children, youth, families and schools. Application of ecobehavioral theory, models of school mental health, the scientist-practitioner model, the practice of psychotherapy, and empirical evidence of the effectiveness of interventions for culturally and linguistically diverse students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

955**Child Therapy**[LINK \(http://bulletin.unl.edu/courses/EDPS/955\)](http://bulletin.unl.edu/courses/EDPS/955)**Prereqs:**[EDPS 949 \(http://bulletin.unl.edu/courses/EDPS/949\)](http://bulletin.unl.edu/courses/EDPS/949)

Advanced practicum course that facilitates students' scholarly acquisition of principles and concepts relevant to conducting therapy, and provides opportunities for practical integration of knowledge and skills essential to conducting individual, group, and family psychotherapy. Students acquire competencies in developing, implementing and evaluating interventions by conducting therapy sessions, observing sessions, exchanging feedback with peers, and receiving supervision.

Credit Hours:	4
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

956**Projective Psychological Assessment**[LINK \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)**Prereqs:**

[EDPS 853 \(http://bulletin.unl.edu/courses/EDPS/853\)](http://bulletin.unl.edu/courses/EDPS/853), and [EDPS 953 \(http://bulletin.unl.edu/courses/EDPS/953\)](http://bulletin.unl.edu/courses/EDPS/953). Permission may be granted

Credit Hours:	4
Course Format:	Lecture

The primary goal of this course is to assist doctoral students in developing their ability to utilize projective assessment techniques to integrate information from a variety of sources about a person (an adult or older adolescent) into an integrated, useful psychological report. The broad array of data will include not only the results of formal tests (e.g., the Rorschach), but also personal and family history, and behavioral observations.

EDPS **958B** **Practicum in School Psychology Consultation Techniques** [LINK \(http://bulletin.unl.edu/courses/EDPS/958B\)](http://bulletin.unl.edu/courses/EDPS/958B)

Prereqs:
EDPS 863 (<http://bulletin.unl.edu/courses/EDPS/863>), 952 (<http://bulletin.unl.edu/courses/EDPS/952>), 997D (<http://bulletin.unl.edu/courses/EDPS/997D>) or equivalent, and permission

Practicum experience in ecological/behavioral, mental health, and organizational consultation techniques within a school or related setting. Supplemented by individual and small group supervisory/feedback sessions each week.

Credit Hours:	1-4
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

EDPS **960** **Problem Solving and Concept Learning in Humans** [LINK \(http://bulletin.unl.edu/courses/EDPS/960\)](http://bulletin.unl.edu/courses/EDPS/960)

Prereqs:
EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and 854 (<http://bulletin.unl.edu/courses/EDPS/854>)

Critical examination of the non-Piagetean research literature and theory which examines higher mental processes in humans through the lifespan.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **961** **Cognitive Development** [LINK \(http://bulletin.unl.edu/courses/EDPS/961\)](http://bulletin.unl.edu/courses/EDPS/961)

Prereqs:
EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Critical examination of theories and research on cognitive development throughout the lifespan, including Piagetean and alternative perspectives.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **962** **Research Literature in Personality and Social Development** [LINK \(http://bulletin.unl.edu/courses/EDPS/962\)](http://bulletin.unl.edu/courses/EDPS/962)

Prereqs:
EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Critical examination of the concepts and principles derived from the study of personality and social development with special emphasis on the research literature.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **963** **Developmental Psychobiology** [LINK \(http://bulletin.unl.edu/courses/EDPS/963\)](http://bulletin.unl.edu/courses/EDPS/963)

Prereqs: Credit Hours: 3

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and permission

Biological foundations of human psychological development, including anatomical, physiological, and evolutionary considerations.

Campus:	
Course Delivery:	Classroom

EDPS

964

Counseling Theories and Intervention Techniques

[LINK \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964)

Prereqs:
EDPS *866

Parallel: [EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A) and permission of counseling area. Overview of theoretical approaches to counseling. Close examination of selected theories and intervention procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

965A

Group Counseling: Social Psychological Aspects

[LINK \(http://bulletin.unl.edu/courses/EDPS/965A\)](http://bulletin.unl.edu/courses/EDPS/965A)

Prereqs:
EDPS *866

Parallel: [EDPS 964 \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964) and [997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A). Develops student competencies in analyzing organizational contexts, designing group counseling experiences, and evaluating group experiences.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

966

Psychology of Learning

[LINK \(http://bulletin.unl.edu/courses/EDPS/966\)](http://bulletin.unl.edu/courses/EDPS/966)

Prereqs:
[EDPS 854 \(http://bulletin.unl.edu/courses/EDPS/854\)](http://bulletin.unl.edu/courses/EDPS/854) and [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870)

Theories of learning and experimental investigation in the field of animal and human behavior and their application to the classroom.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

967

Psychology of Motivation in Education

[LINK \(http://bulletin.unl.edu/courses/EDPS/967\)](http://bulletin.unl.edu/courses/EDPS/967)

Prereqs:
Graduate standing
[EDPS 854 \(http://bulletin.unl.edu/courses/EDPS/854\)](http://bulletin.unl.edu/courses/EDPS/854)

Psychology of Motivation focuses on understanding and impacting students' motivation to learn. Theories discussed in this class are applicable to a wide array of achievement settings (e.g., math, science, writing, health education) as well as more general motivational concerns (e.g., studying, addiction, video games). Content covered includes drive theory, behaviorism as motivation, achievement motivation, goal theory, self-determination theory, social cognitive theory, and ecological theories of motivation.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

968

Gender and Counseling Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/968\)](http://bulletin.unl.edu/courses/EDPS/968)

Prereqs:
Admitted as a graduate student in the Counseling Psychology program.

The major purpose of this course is for students to learn about gender

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

issues within the field of counseling psychology from a multicultural and feminist perspective and to gain the essential knowledge and techniques in working with gender issues in diverse settings.

EDPS

969

Nonparametric Statistical Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/969\)](http://bulletin.unl.edu/courses/EDPS/969)

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Presentation of statistical procedures that do not require fundamental assumptions about the distribution property of the variables to be analyzed. Chi Square tests, rank tests of location (Wilcoxon, Mann Whitney, Kruskal-Wallis, Friedman), tests of goodness of fit (Chi Square, Kolmogorov-Smirnoff), tests of randomness (Runs).

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

97

College Major Forum

[LINK \(http://bulletin.unl.edu/courses/EDPS/97\)](http://bulletin.unl.edu/courses/EDPS/97)

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B), [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

[EDPS 97 \(http://bulletin.unl.edu/courses/EDPS/97\)](http://bulletin.unl.edu/courses/EDPS/97) is Pass/No Pass only.

This is an eight week seminar course for first semester students in the General Studies Learning Community. Students will complete activities to identify interests, research majors that match their interests and complete a "Guided Professional Shadowing" experience to gain first-hand knowledge about a career of their choice.

Credit Hours:	0
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

970

Theory and Methods of Educational Measurement

[LINK \(http://bulletin.unl.edu/courses/EDPS/970\)](http://bulletin.unl.edu/courses/EDPS/970)

Crosslisted as *SRAM 970*

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) and [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870); [EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/SRAM/941\)](http://bulletin.unl.edu/courses/SRAM/941); or equivalent

Presentation of various measurement theories and concepts, including classical true-score theory, reliability and validity, test construction, item response theory, test equating, test bias, and criterion-referenced tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

971

Structural Equation Modeling

[LINK \(http://bulletin.unl.edu/courses/EDPS/971\)](http://bulletin.unl.edu/courses/EDPS/971)

Crosslisted as *SRAM 971*

Prereqs:

[EDPS/SRAM 942 \(http://bulletin.unl.edu/courses/SRAM/942\)](http://bulletin.unl.edu/courses/SRAM/942) and [970 \(http://bulletin.unl.edu/courses/SRAM/970\)](http://bulletin.unl.edu/courses/SRAM/970); or equivalent

Introduction to the techniques of path analysis, confirmatory factor analysis, and structural equation modeling with emphasis on the set-up and interpretation of different models using the LISREL program. Model testing and evaluation, goodness-of-fit indices, violations of assumptions, specification searches, and power analyses.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

972

Multivariate Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/972\)](http://bulletin.unl.edu/courses/EDPS/972)

Crosslisted as *SRAM 972*

Prereqs:

[EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/SRAM/941\)](http://bulletin.unl.edu/courses/SRAM/941) and [942](http://bulletin.unl.edu/courses/SRAM/942)

Credit Hours:	3
Campus:	

<http://bulletin.unl.edu/courses/SRAM/942>

Course Delivery: Classroom

Techniques of multivariate analyses, including multivariate analysis of variance and covariance, multivariate multiple regression, multigroup discriminant analysis, canonical analysis, repeated measures (Multivariate model), and time series. Mathematical models presented and analyzed. Instruction complemented by appropriate statistical software packages.

EDPS
973A Evaluation Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A)

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Theories and strategies of evaluation examined within the context of society at large and educational and human service programs in particular. Key evaluation models examined as they relate to judgments and decisions about programs. Methodological, social, and political issues in evaluation which pertain equally to an educational program or a human service agency.

Credit Hours: 2-3
Course Format: Lecture
Campus:
Course Delivery: Classroom

EDPS
973B Evaluation Practicum

[LINK \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Prereqs:
[EDPS 973A \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A) or permission

Actual supervised evaluation of a program or project.

Credit Hours: 2-3
Campus:
Course Delivery: Classroom

EDPS
974 Guidance and Counseling in Schools

[LINK \(http://bulletin.unl.edu/courses/EDPS/974\)](http://bulletin.unl.edu/courses/EDPS/974)

Survey of elementary, middle and secondary school comprehensive models of guidance. Ingredients of effective helping relationships with students in schools. Analysis of school violence, risk assessment models, multicultural influences, prevention models, and guidance roles of teachers/administrators.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDPS
975 Occupations and Vocational Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/975\)](http://bulletin.unl.edu/courses/EDPS/975)

Evaluation and uses of occupational and educational information; job analysis; psychological and behavioral attributes relating to work and life-styles; occupational taxonomies; career-development theories; impact of accelerating changes on personal and social planning; investigations of value-oriented expectations as sources of work satisfaction and dissatisfaction; critical assessment of the concept of vocational choice. For counselors and educators.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDPS
976 Advanced Counseling Psychology I: Counseling Theory and Practice [LINK \(http://bulletin.unl.edu/courses/EDPS/976\)](http://bulletin.unl.edu/courses/EDPS/976)

Prereqs:
Doctoral level counseling students and others by permission

This course is a prerequisite for: [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

Counseling methodology in relationship to personality theory and research. Consideration of various theories and research in relation to counseling practice.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDPS

977**Seminar in College Student Development**Crosslisted as *EDAD 980*[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS

978**Advanced Counseling Psychology II: Research in Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)**Prereqs:**

EDPS 976 (<http://bulletin.unl.edu/courses/EDPS/976>); **EDUC 900A** (<http://bulletin.unl.edu/courses/EDUC/900A>) and either **EDUC 900B** (<http://bulletin.unl.edu/courses/EDUC/900B>) or **900K** (<http://bulletin.unl.edu/courses/EDUC/900K>)

Research strategies appropriate for counseling psychology. Identification of researchable problem and completion of research proposal including literature review, design, and proposed data analysis procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

980**Item Response Theory**[LINK \(http://bulletin.unl.edu/courses/EDPS/980\)](http://bulletin.unl.edu/courses/EDPS/980)**Prereqs:**

EDPS 870 (<http://bulletin.unl.edu/courses/EDPS/870>) and **970** (<http://bulletin.unl.edu/courses/EDPS/970>); or permission

Principles of item response theory (IRT) and its application to a variety of issues in educational and psychological measurement. Theoretical foundations of IRT discussed along with its assumptions and varied applications. Experience using IRT calibration and scoring computer software.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

981**School Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/981\)](http://bulletin.unl.edu/courses/EDPS/981)**Prereqs:**

by permission of course instructor

Supervised practice in local school districts related to academic, social, behavioral and emotional disorders of children and adolescents.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	8
Course Format:	Field, Lab, Lecture
Campus:	
Course Delivery:	Classroom

EDPS

982**Clinical Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/982\)](http://bulletin.unl.edu/courses/EDPS/982)**Prereqs:**

by permission of course instructor

Supervised clinical practice related to academic, social, behavioral and emotional disorders of children and adolescents. Parent and family treatment and behavior interventions emphasized.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	16
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

983**Community Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/983\)](http://bulletin.unl.edu/courses/EDPS/983)**Prereqs:****Doctoral standing in professional psychology program and permission**

Supervised clinical experience working with children, adolescents and families in a variety of school and community settings.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	16
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

984**Ethics and Ethical Decision Making in Counseling and Education** [LINK \(http://bulletin.unl.edu/courses/EDPS/984\)](http://bulletin.unl.edu/courses/EDPS/984)

Ethical principles in the practice of counseling. Application of ethical guidelines and development of ethical decision-making models relevant to school and mental health contents.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

985**Couple and Family Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/985\)](http://bulletin.unl.edu/courses/EDPS/985)**Prereqs:****EDPS *866 or equivalent**

Couple and family systems and change strategies. Active, brief forms of couple and family counseling and enrichment formats.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

987**Developmental Perspectives on Gender and Sexuality in Counseling** [LINK \(http://bulletin.unl.edu/courses/EDPS/987\)](http://bulletin.unl.edu/courses/EDPS/987)

Issues related to gender and sexuality in the process of counseling and psychotherapy. Developmental issues related to gender differences, gender bias, gender identity, gender discrimination, and gender-based disorders. Feminist and affirmative therapy techniques.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

989**Psychology of Reading**Crosslisted as *TEAC 989*[LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)**Prereqs:****TEAC *811 or 841 or SPED 886**
<http://bulletin.unl.edu/courses/SPED/886>

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

990**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDPS/990\)](http://bulletin.unl.edu/courses/EDPS/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDPS

991**Seminar in Educational Psychology and Measurements**[LINK \(http://bulletin.unl.edu/courses/EDPS/991\)](http://bulletin.unl.edu/courses/EDPS/991)**Prereqs:**
Permission

Credit Hours:	1-12
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDPS

993**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDPS/993\)](http://bulletin.unl.edu/courses/EDPS/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDPS

995**Doctoral Seminar**[LINK \(http://bulletin.unl.edu/courses/EDPS/995\)](http://bulletin.unl.edu/courses/EDPS/995)**Prereqs:**
Permission

EDPS 995 (http://bulletin.unl.edu/courses/EDPS/995) is intended primarily for EDPS doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor.

Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3-4
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

EDPS

996A**Research Other Than Thesis**[LINK \(http://bulletin.unl.edu/courses/EDPS/996A\)](http://bulletin.unl.edu/courses/EDPS/996A)

Independent operational research under faculty supervision.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

996B**Readings in Educational Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/996B\)](http://bulletin.unl.edu/courses/EDPS/996B)**Prereqs:**
Permission

Readings on selected problems in educational psychology.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

997A**Practicum in Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Prereqs:
Masters admission in educational psychology or permission of counseling area, EDPS *866

This course is a prerequisite for: [EDPS 997B \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B), [EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997C\)](http://bulletin.unl.edu/courses/EDPS/997C)

Credit Hours:	2-4
Campus:	
Course Delivery:	Classroom

Parallel: EDPS 964 (<http://bulletin.unl.edu/courses/EDPS/964>). Supervised laboratory clinic-based experiences in counseling.

EDPS
997B

Field Placement in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B)

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Supervised field experiences in school counseling, college student personnel, and community social service agencies.

Credit Hours:	2-4
Campus:	
Course Delivery:	Classroom

EDPS
997D

Practicum in Behavior Management Technologies

[LINK \(http://bulletin.unl.edu/courses/EDPS/997D\)](http://bulletin.unl.edu/courses/EDPS/997D)

Prereqs:
[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863) and permission

Supervised practicum in the design, implementation, evaluation, and reporting of various behavior modification technologies for individuals and groups; social systems engineering.

Credit Hours:	3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS
997E

Practicum in Counselor Supervision and Consultation

[LINK \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Prereqs:
[EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G) or equivalent

Supervised counseling supervision and consultation experience emphasizing process methods and evaluation.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

EDPS
997G

Advanced Practicum in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A) and permission

This course is a prerequisite for: [EDPS 997E \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Supervised counseling experience in university, schools, and community agencies.

Credit Hours:	2-4
Campus:	
Course Delivery:	Classroom

EDPS
997J

Advanced Practicum in Gifted Education

[LINK \(http://bulletin.unl.edu/courses/EDPS/997J\)](http://bulletin.unl.edu/courses/EDPS/997J)

Crosslisted as *SPED 997J*

Prereqs:
Permission

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
997K

Supervision in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/997K\)](http://bulletin.unl.edu/courses/EDPS/997K)

Prereqs:

Credit Hours:	3-4
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Doctoral standing in professional psychology program and permission.

Supervised experience in supervising graduate students in practicum settings. Refinement of consultation, assessment, diagnosis, and treatment skills.

Max credits per semester:	8
Max credits per degree:	8
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/EDPS/999\)](http://bulletin.unl.edu/courses/EDPS/999)

Prereqs:

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

PSYC

471/871

Human Sexuality and Society

Crosslisted as *SOCI 471/871, EDPS 471/871, CYAF 471/871*

[LINK \(http://bulletin.unl.edu/courses/PSYC/471\)](http://bulletin.unl.edu/courses/PSYC/471)

Prereqs:

Junior standing and 12 hrs in one of the departments in which the course is listed.

Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.).

Interdisciplinary approach to the study of human sexuality in terms of the psychological, social, cultural, anthropological, legal, historical, and physical characteristics of individual sexuality and sex in society.

Credit Hours:	3
Course Delivery:	Classroom

SPED

892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:

EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC

930

Sociological/Anthropological Research Methods in Education

Crosslisted as *EDPS 930, CYAF 930, NUTR 930*

[LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1-3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1-3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1-3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1-3 cr, max 3)
- J. Hermeneutic Traditions in Education (1-3 cr, max 3)
- K. Quantitative Research Traditions in Education (1-3 cr, max 3)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

Q

Courses for SPED (SPED)

EDAD

855**Teaching Learners to Learn**Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

856**Supervising Special Education**Crosslisted as *SPED 856*[LINK \(http://bulletin.unl.edu/courses/EDAD/856\)](http://bulletin.unl.edu/courses/EDAD/856)

For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

857**Special Education Administration**Crosslisted as *SPED 857*[LINK \(http://bulletin.unl.edu/courses/EDAD/857\)](http://bulletin.unl.edu/courses/EDAD/857)

Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

858**Special Education Law**Crosslisted as *SPED 858*[LINK \(http://bulletin.unl.edu/courses/EDAD/858\)](http://bulletin.unl.edu/courses/EDAD/858)

Body of law that pertains to the organization, administration, and implementation of special education programs in PreK-12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

997J**Advanced Practicum in Gifted Education**Crosslisted as *SPED 997J*[LINK \(http://bulletin.unl.edu/courses/EDPS/997J\)](http://bulletin.unl.edu/courses/EDPS/997J)

Prereqs:
Permission

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

884**Speech and Language Development of the Hearing Impaired**Crosslisted as *SPED 884*[LINK \(http://bulletin.unl.edu/courses/SLPA/884\)](http://bulletin.unl.edu/courses/SLPA/884)

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

956**Language Study of Teachers of Deaf and Hard of Hearing (DHH)** [LINK \(http://bulletin.unl.edu/courses/SLPA/956\)](http://bulletin.unl.edu/courses/SLPA/956)Crosslisted as *SPED 956*

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

400/800**Characteristics of Exceptional Persons**[LINK \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A), [SPED 809 \(http://bulletin.unl.edu/courses/SPED/809\)](http://bulletin.unl.edu/courses/SPED/809), [SPED 843 \(http://bulletin.unl.edu/courses/SPED/843\)](http://bulletin.unl.edu/courses/SPED/843)

Etiology, growth and development, and characteristics of children and youth who deviate from the norm.

Credit Hours:	3
Course Delivery:	Classroom

SPED

401A/801A**Accommodating Exceptional Learners in the Elementary School Classroom** [LINK \(http://bulletin.unl.edu/courses/SPED/401A\)](http://bulletin.unl.edu/courses/SPED/401A)

Prereqs:
Admission to the Teacher Education Program; EDPS 362 (<http://bulletin.unl.edu/courses/EDPS/362>); TEAC 195 (<http://bulletin.unl.edu/courses/TEAC/195>); one methods course; or permission.

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the elementary school.

Credit Hours:	3
Course Delivery:	Classroom

SPED

401B/801B**Accommodating Exceptional Learners in the Secondary School Classroom** [LINK \(http://bulletin.unl.edu/courses/SPED/401B\)](http://bulletin.unl.edu/courses/SPED/401B)

Prereqs:
Admission to the Teacher Education Program; EDPS 362 (<http://bulletin.unl.edu/courses/EDPS/362>); TEAC 195 (<http://bulletin.unl.edu/courses/TEAC/195>); one methods course; or permission.

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the secondary school.

Credit Hours:	3
Course Delivery:	Classroom

SPED

405/805**Code-based Reading Instruction**[LINK \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

Prereqs:
Parallel [SPED 405A \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A) / [805A \(http://bulletin.unl.edu/courses/SPED/805A\)](http://bulletin.unl.edu/courses/SPED/805A).

This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

Direct, systematic, multi-sensory techniques for teaching reading, writing and spelling to students who have severe reading problems.

Credit Hours:	1-3
Max credits per semester:	6
Course Format:	Lecture
Course Delivery:	Classroom

SPED

Reading Center Practicum I[LINK \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A)**405A/805A****Prereqs:
Permission.**This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

[SPED 405A \(http://bulletin.unl.edu/courses/SPED/405A/805A\)](http://bulletin.unl.edu/courses/SPED/405A/805A)
(<http://bulletin.unl.edu/courses/SPED/805A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, lesson planning and teaching using direct instruction, code-based instructional strategies.

Credit Hours:	1-3
Max credits per semester:	3
Course Format:	Field
Course Delivery:	Classroom

SPED

Reading and Writing Disabilities: Adolescents[LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)**406/806**Crosslisted as *TEAC 806***Prereqs:**

[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400/800\)](http://bulletin.unl.edu/courses/SPED/400/800)
(<http://bulletin.unl.edu/courses/SPED/800>), [SPED 412](http://bulletin.unl.edu/courses/SPED/412)
(<http://bulletin.unl.edu/courses/SPED/412/812>)
(<http://bulletin.unl.edu/courses/SPED/812>), and ([TEAC 441](http://bulletin.unl.edu/courses/TEAC/441)
(<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Parallel [SPED 406A](http://bulletin.unl.edu/courses/SPED/406A)
(<http://bulletin.unl.edu/courses/SPED/406A/806A>)
(<http://bulletin.unl.edu/courses/SPED/806A>).

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406),
[SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED

Reading Center Practicum II[LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)**406A/806A**Crosslisted as *TEAC 806A***Prereqs:**

[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400/800\)](http://bulletin.unl.edu/courses/SPED/400/800)
(<http://bulletin.unl.edu/courses/SPED/800>), [412](http://bulletin.unl.edu/courses/SPED/412)
(<http://bulletin.unl.edu/courses/SPED/412/812>)
(<http://bulletin.unl.edu/courses/SPED/812>), and ([TEAC 441](http://bulletin.unl.edu/courses/TEAC/441)
(<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Taken parallel with [SPED 406](http://bulletin.unl.edu/courses/SPED/406)
(<http://bulletin.unl.edu/courses/SPED/406/806>)
(<http://bulletin.unl.edu/courses/SPED/806>).

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

[SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A/806A\)](http://bulletin.unl.edu/courses/SPED/406A/806A)
(<http://bulletin.unl.edu/courses/SPED/806A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

SPED

Teaching Students with Disabilities in the Secondary School[LINK \(http://bulletin.unl.edu/courses/SPED/407\)](http://bulletin.unl.edu/courses/SPED/407)**407/807****Prereqs:**

[SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) or [400](http://bulletin.unl.edu/courses/SPED/400)

Credit Hours:	3
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<http://bulletin.unl.edu/courses/SPED/400/> **800**
<http://bulletin.unl.edu/courses/SPED/800/>.

Course Delivery: Classroom

This course is a prerequisite for: [SPED 408 \(http://bulletin.unl.edu/courses/SPED/408/\)](http://bulletin.unl.edu/courses/SPED/408/)

Information about the mildly/moderately disabled secondary-level student; including characteristics, assessment, models for programs, social skill training, behavior management, working with parents, and curriculum modification.

SPED **Issues in Secondary Programs for Students with Mild Disabilities** [LINK \(http://bulletin.unl.edu/courses/SPED/408/\)](http://bulletin.unl.edu/courses/SPED/408/)

408/808

Prereqs:
Special Education Professional Semester and [SPED 407 \(http://bulletin.unl.edu/courses/SPED/407/\)](http://bulletin.unl.edu/courses/SPED/407/).

Credit Hours: 3

Course Delivery: Classroom

Issues in secondary education for students with mild disabilities based on current literature and needs of individual students.

SPED **Assessment Techniques for Diverse Learners** [LINK \(http://bulletin.unl.edu/courses/SPED/412/\)](http://bulletin.unl.edu/courses/SPED/412/)

412/812

Prereqs:
Sophomore standing; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201/\)](http://bulletin.unl.edu/courses/SPED/201/) and [303 \(http://bulletin.unl.edu/courses/SPED/303/\)](http://bulletin.unl.edu/courses/SPED/303/).

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406/\)](http://bulletin.unl.edu/courses/SPED/406/),
[SPED 415 \(http://bulletin.unl.edu/courses/SPED/415/\)](http://bulletin.unl.edu/courses/SPED/415/)

The role of general education teachers in the primary purposes of assessment of learners with diverse needs. Knowledge and experience with interpreting norm-referenced test information as related to planning educational programs. Use of assessment information for instructional planning and evaluation. Testing accommodations and classroom grading.

SPED **Instructional Methods for Students with Diverse Needs** [LINK \(http://bulletin.unl.edu/courses/SPED/414/\)](http://bulletin.unl.edu/courses/SPED/414/)

414/814

Prereqs:
Sophomore standing; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201/\)](http://bulletin.unl.edu/courses/SPED/201/) and [303 \(http://bulletin.unl.edu/courses/SPED/303/\)](http://bulletin.unl.edu/courses/SPED/303/).

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

This course is a prerequisite for: [SPED 415 \(http://bulletin.unl.edu/courses/SPED/415/\)](http://bulletin.unl.edu/courses/SPED/415/)

Instructional methods and accommodations for special education and general education teachers necessary to work successfully with students with disabilities or who are at-risk for academic failure. Curriculum modification, classroom management, strategy instruction, and instructional modifications for content areas.

SPED **Reading and Writing Disabilities: Elementary Students** [LINK \(http://bulletin.unl.edu/courses/SPED/415/\)](http://bulletin.unl.edu/courses/SPED/415/)

415/815

Prereqs:
[SPED 201 \(http://bulletin.unl.edu/courses/SPED/201/\)](http://bulletin.unl.edu/courses/SPED/201/), [TEAC 311 \(http://bulletin.unl.edu/courses/TEAC/311/\)](http://bulletin.unl.edu/courses/TEAC/311/), [TEAC 313 \(http://bulletin.unl.edu/courses/TEAC/313/\)](http://bulletin.unl.edu/courses/TEAC/313/) for elementary education majors; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201/\)](http://bulletin.unl.edu/courses/SPED/201/), [SPED 412 \(http://bulletin.unl.edu/courses/SPED/412/\)](http://bulletin.unl.edu/courses/SPED/412/), and [SPED 414 \(http://bulletin.unl.edu/courses/SPED/414/\)](http://bulletin.unl.edu/courses/SPED/414/) (or equivalent) for SPED

Credit Hours: 2

Course Format: Lecture 2

Course Delivery: Classroom

majors. Must be taken with: SPED 415A
<http://bulletin.unl.edu/courses/SPED/415A/815A>
<http://bulletin.unl.edu/courses/SPED/815A>.

This course is a prerequisite for: [SPED 415 \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

Theory and techniques for assessing and teaching early literacy skills in small groups and one-on-one for children who struggle with literacy.

SPED Career Education for the Special Needs Student

436/836

[LINK \(http://bulletin.unl.edu/courses/SPED/436\)](http://bulletin.unl.edu/courses/SPED/436)

Prereqs:
[SPED 434 \(http://bulletin.unl.edu/courses/SPED/434\)](http://bulletin.unl.edu/courses/SPED/434)/[834](http://bulletin.unl.edu/courses/SPED/834)
<http://bulletin.unl.edu/courses/SPED/834> or permission.

Philosophical and practical base of career education as it relates to special needs students. Career education units developed for infusion into subject areas.

Credit Hours:	3
Course Delivery:	Classroom

SPED Medically Fragile infants

463/863

[LINK \(http://bulletin.unl.edu/courses/SPED/463\)](http://bulletin.unl.edu/courses/SPED/463)

Prereqs:
Major in Special Education, Speech-language Pathology or Child Youth and Family Studies. Senior status or permission of instructor.

Unique needs, family-coping strategies, specialized medical staff and various health care settings for chronically ill infants, toddlers and preschool age children. Overview of etiology, characteristics and developmental implications of selected medical conditions related to developmental disabilities.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Web

SPED Psychology and Sociology of Deafness

472/872

[LINK \(http://bulletin.unl.edu/courses/SPED/472\)](http://bulletin.unl.edu/courses/SPED/472)

Education of the hearing impaired including history of, professional roles in, and educational programming within this field. Social/psychological theories as related to the hearing impaired. Patterns of social/emotional development, psychological characteristics, issues of family stress and social adaptation and discussion of counseling techniques.

Credit Hours:	3
Course Delivery:	Classroom

SPED Educating Students with Intellectual Impairments & Developmental Disabilities

480/880

[LINK \(http://bulletin.unl.edu/courses/SPED/480\)](http://bulletin.unl.edu/courses/SPED/480)

This course is a prerequisite for: [SPED 881 \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)

Concepts related to history, definitions, identification, etiology, and assessment of students with intellectual impairments and developmental disabilities. Examine attitudes, assumptions, and stereotypes concerning persons with intellectual impairments and other developmental disabilities. Instructional methods, adaptations and teaming to provide individualized interventions and include students in least restrictive environments/general education settings. Applied assignments will be conducted in field experience and student teaching.

Credit Hours:	3
Course Delivery:	Classroom, Web

SPED Independent Study in Special Education

495/895

[LINK \(http://bulletin.unl.edu/courses/SPED/495\)](http://bulletin.unl.edu/courses/SPED/495)

Prereqs:
Prior arrangements with faculty member and permission.

Special research or reading project under direction of a staff member in the department.

Credit Hours: 1-3

Course Delivery: Classroom

SPED **496/896** Directed Field Experience

[LINK \(http://bulletin.unl.edu/courses/SPED/496\)](http://bulletin.unl.edu/courses/SPED/496)

Prereqs:
Permission.

Pass/No Pass only for *SPED 496* (<http://bulletin.unl.edu/courses/SPED/496>) section. *SPED 896* (<http://bulletin.unl.edu/courses/SPED/896>) is graded.

E. Field Experience: General Special Education (1-6 cr, max 12) M. Field Experience: Mild/Moderate (1-6 cr, max 12) Y. Field Experience: Inclusion (1-6 cr, max 12)

Credit Hours: 1-6

Max credits per semester: 12

Course Format: Field

Course Delivery: Classroom

SPED **496Y/896Y** Directed Field Experience: Inclusion

[LINK \(http://bulletin.unl.edu/courses/SPED/496Y\)](http://bulletin.unl.edu/courses/SPED/496Y)

Prereqs:
Permission.

Pass/No Pass only for *SPED 496* (<http://bulletin.unl.edu/courses/SPED/496>) section. *SPED 896* (<http://bulletin.unl.edu/courses/SPED/896>) is graded.

Credit Hours: 1-6

Max credits per semester: 12

Course Format: Field

Course Delivery: Classroom

SPED **802** Advanced Assessment Techniques

[LINK \(http://bulletin.unl.edu/courses/SPED/802\)](http://bulletin.unl.edu/courses/SPED/802)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) or equivalent; or permission

Comprehensive study of criterion-referenced and normative-referenced assessment instruments used by school resource personnel.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED **803** Effective Instruction for Learners with Special Needs

[LINK \(http://bulletin.unl.edu/courses/SPED/803\)](http://bulletin.unl.edu/courses/SPED/803)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) and *802; or permission

Interaction of classroom-based assessment and effective instructional strategies for use with individual and group formats. Development of individual education plans, curriculum analysis, delivery of instruction, curriculum-based measurement, and specific and generic instructional strategies.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED **804** Managing Challenging Behavior

[LINK \(http://bulletin.unl.edu/courses/SPED/804\)](http://bulletin.unl.edu/courses/SPED/804)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *802, *803; or permission

Functional approaches that can be used by teachers and mental health practitioners for assessing, preventing, and managing children's challenging

Credit Hours: 3

Campus:

Course Delivery: Classroom

behavior. Basics of applied behavior analysis, functional analyses of behavior, individual- and group-oriented interventions, self-management training, and strategies for promoting generalization.

SPED
809

Autism Spectrum Disorders (ASDs): Effective Assessment and Intervention bulletin.unl.edu/courses/SPED/809

Prereqs:

SPED 400 (<http://bulletin.unl.edu/courses/SPED/400/>) **800** (<http://bulletin.unl.edu/courses/SPED/800/>) or equivalent

SPED 809 (<http://bulletin.unl.edu/courses/SPED/809/>) requires observation in schools and applied assignments.

Designed for educators of children and youth with Autism Spectrum Disorders (ASDs) in school settings. Assessment strategies to identify characteristics of ASDs focused on individual needs and strengths-based outcomes. Knowledge and skills regarding evidence-based practices and individualized educational programs.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
810

Autism Spectrum Disorders (ASDs): Methods and Program Planning <http://bulletin.unl.edu/courses/SPED/810>

Prereqs:

SPED *809 or equivalent

*Majors in severe disabilities must parallel with SPED *896P (1 cr). SPED *810 requires observations in schools and applied assignments.*

Planning, implementing, and evaluating effective education for individuals with Autism Spectrum Disorders (ASDs). Uses an ecological approach to assess present levels of performance and individual characteristics. Apply assessment outcomes to develop functional outcomes, to select instructional strategies, and utilize empirically-based interventions.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
820

Mathematics Instruction for Diverse Learners [LINK \(http://bulletin.unl.edu/courses/SPED/820\)](http://bulletin.unl.edu/courses/SPED/820)

Prereqs:

SPED 201 (<http://bulletin.unl.edu/courses/SPED/201/>) or **400** (<http://bulletin.unl.edu/courses/SPED/400/>) or **800** (<http://bulletin.unl.edu/courses/SPED/800/>)

*SPED *820 and associated practicum is designed to meet professional standards (i.e., Council for Exceptional Children, Teacher Education Accreditation Council) for teachers in the area of instruction for diverse learners.*

Supplemental basic skills and concepts instruction for diverse learners within a response to intervention models and on mathematics instruction. Selection, delivery, and evaluation of standard protocol and individualized interventions to diverse learners.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
824

Functional Behavioral Assessment [LINK \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824)

Prereqs:

SPED 303 (<http://bulletin.unl.edu/courses/SPED/303/>) or equivalent. **Parallel SPED 824A** (<http://bulletin.unl.edu/courses/SPED/824A/>).

This course is a prerequisite for: **SPED 824** (<http://bulletin.unl.edu/courses/SPED/824/>), **SPED 824A** (<http://bulletin.unl.edu/courses/SPED/824A/>)

Functional behavioral assessments (FBAs) and development of behavior intervention plans (BIPs) based on the assessments. Contextual and

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

curriculum manipulations, and replacement behavior training.

SPED
824A **Practicum in Functional Behavioral Assessment**

[LINK \(http://bulletin.unl.edu/courses/SPED/824A\)](http://bulletin.unl.edu/courses/SPED/824A)

Prereqs:
[SPED 303 \(http://bulletin.unl.edu/courses/SPED/303\)](http://bulletin.unl.edu/courses/SPED/303) or approved equivalent. Parallel [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824).

This course is a prerequisite for: [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824)

Opportunities to engage in the activities and practice the skills associated with [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824). Culmination of the practicum is performing a complete functional behavioral assessment and developing a behavior intervention plan for a student who displays challenging behaviors.

Credit Hours:	2
Course Format:	Field
Campus:	
Course Delivery:	Classroom

SPED
833 **Behavioral Systems and Interventions**

[LINK \(http://bulletin.unl.edu/courses/SPED/833\)](http://bulletin.unl.edu/courses/SPED/833)

Prereqs:
[SPED 813 \(http://bulletin.unl.edu/courses/SPED/813\)](http://bulletin.unl.edu/courses/SPED/813) or equivalent

Three-tier models for encouraging and maintaining students' appropriate behaviors. Evaluation and implementation of interventions at the school-wide, classroom and/or small group, and individual levels. Presentation of different models i.e., Response to Intervention (RtI) and School-Wide Positive Behavior Support (SWPBS).

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
834 **Introduction to Special Vocational Needs**

[LINK \(http://bulletin.unl.edu/courses/SPED/834\)](http://bulletin.unl.edu/courses/SPED/834)

Foundational course emphasizing the characteristics and identification of special needs learners in vocational settings. Determines needs, interests, and abilities of these students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
841 **Emotional and Behavioral Disorders**

[LINK \(http://bulletin.unl.edu/courses/SPED/841\)](http://bulletin.unl.edu/courses/SPED/841)

Prereqs:
[SPED 800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800) or permission

Etiology, theories and assessment of child and adolescent emotional and behavioral disorders. Addresses issues of definitions and classification (DSM-IV and special education) or deviant behavior and psychopathology, as well as an overview of service delivery systems in education and mental health.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
843 **Characteristics of Emotional and Learning Disorders**

[LINK \(http://bulletin.unl.edu/courses/SPED/843\)](http://bulletin.unl.edu/courses/SPED/843)

Prereqs:
[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)/[800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800)

Learning, academic, behavioral, social-emotional and language characteristics of students who are classified as having disabilities for purposes of special education. Definitions, classification systems,

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

assessment and verification criteria, and medications for students with learning and emotional disabilities.

SPED

846

Foundations of Visual Impairment: Programs and Services for Individuals with Visual Impairments <http://bulletin.unl.edu/courses/SPED/846>

Prereqs:

Admission to visually impaired program; hold or concurrently earn subject/field endorsement

Current educational programs and services for children with visual impairments, as well as children with multiple disabilities. History of educational services, developmental characteristics, psycho-social aspects, history of legislation, and grade I Braille.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

847

Introduction to Eye Anatomy of Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/847>

Prereqs:

SPED *846 or permission

Structure and function of the visual system, conditions that effect visual ability, and the functional and environmental implications of low vision. Strategies for enhancing visual ability in children with visual impairments and children who have additional disabilities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

849

Braille Codes and Material Adaptations for Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/849>

Prereqs:

SPED *846 and *847, or permission

Basic skills in literary Braille transcription and codes. Acquire competence in reading and writing Braille and using the Perkins braillewriter and slate/stylus.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

851

Intermediate Braille Codes and Instructional Material Adaptations for Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/851>

Prereqs:

SPED *846, *847, and *849

Advanced skills in Nemeth (mathematics code) and/or Literary code. Basic activities in braille formatting, foreign language, music and identification of braille technology devices and resources.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

852

Instructional Methods for Teachers of Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/852>

Prereqs:

SPED *846, *847, *849, and *851

Methods and materials for educating children who are totally blind or have low vision, including students with multiple impairments. Practical skills in selecting, designing, and/or modifying materials for content area subjects: mathematics, science, social studies, creative arts, foreign language, and other subjects.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
852A

Applied Technology Methods for Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/852A\)](http://bulletin.unl.edu/courses/SPED/852A)

Prereqs:
SPED *846 and *847, or equivalents

Theory and skill development in the selection and use of technology for students with visual impairments. Technology assessments, data collection, equipment feature, source of equipment, funding sources, writing technology instructional plans, and demonstration of using various equipment and technology.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

SPED
852B

Applied Instructional Methods to Teach Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/852B\)](http://bulletin.unl.edu/courses/SPED/852B)

Prereqs:
SPED *846, *847, *849, *851, and *852; or equivalents

Practice using appropriate instructional methods and materials for educating the blind and low vision child.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SPED
853

Orientation and Mobility Skills for Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/853\)](http://bulletin.unl.edu/courses/SPED/853)

Prereqs:
SPED *846, *847, *849, *851, and *852

Theory and applied practice in basic orientation and mobility techniques for use with students with visual impairments. Practical methods for work in concept development, orientation skills, travel skills and techniques, personal safety and independent travel. Needs of specific populations such as people with low vision and individuals with additional disabilities. Vision simulators and occluders. An introduction to the history and development of the profession.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
860

Issues in Early Childhood Special Education [LINK \(http://bulletin.unl.edu/courses/SPED/860\)](http://bulletin.unl.edu/courses/SPED/860)

Introduction to the history, philosophy, and research related to early intervention practices with children 0–5 years of age. Discussion of issues related to legal mandates, model programs, family involvement, integration, transitions, service delivery systems, teamwork and assessment for young children.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
861

Infants with Disabilities and Home Visiting [LINK \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)

Prereqs:
SPED 960 (<http://bulletin.unl.edu/courses/SPED/960>) and permission.

SPED *861 requires a practicum in home visiting.

Assessment and intervention strategies for developing appropriate early intervention programs for infants and toddlers with disabilities. Rationale and principles for conducting home-based, family-centered, and transdisciplinary services.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
862

Preschool Children with Disabilities in a Classroom [LINK \(http://bulletin.unl.edu/courses/SPED/862\)](http://bulletin.unl.edu/courses/SPED/862)

Prereqs:
An assessment and behavior management course; and permission.

SPED *862 requires an applied experience.

Selection, design and implementation of developmentally appropriate, activity-based interventions for preschool-age children with disabilities. Ecological assessments. Instructional factors, such as classroom environments, activity planning, selection, use and modification of strategies, home-school communications, and consulting to staff in inclusive settings.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED 873 Teaching the Content Areas to the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SPED/873\)](http://bulletin.unl.edu/courses/SPED/873)

SPED
873

SPED 873 (<http://bulletin.unl.edu/courses/SPED/873>) is for all students in the hearing impaired program.

Methods for teaching content areas (science, math, and social studies) to hearing impaired students from preschool through grade 12. Adapting curricula and materials from these areas for the hearing impaired students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED 874 Language Arts and Literacy for the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SPED/874\)](http://bulletin.unl.edu/courses/SPED/874)

SPED
874

Assessment instruments, curricula and instructional methods for developing language and literacy in classrooms for hearing impaired children, preschool through grade 12. Methods for coordinating speech and/or language and/or auditory training program in the classroom with that in the speech and/or language therapy program.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED 875 Itinerant Teaching Methods for Students who are Deaf or Hard of Hearing

[LINK \(http://bulletin.unl.edu/courses/SPED/875\)](http://bulletin.unl.edu/courses/SPED/875)

SPED
875

Methods for providing services for students with hearing loss, using itinerant and consultative models. Professional and parent in-service development, team-based problem solving, curriculum based pull-out services. Ecological assessment and management of deafness related technology in inclusive settings. Supervision of interpreters and paraprofessionals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED 876 Language Development for Teachers

[LINK \(http://bulletin.unl.edu/courses/SPED/876\)](http://bulletin.unl.edu/courses/SPED/876)

SPED
876

Introduction to the foundations of normal speech and language development and potential difficulties in both early stages and in the classroom. Analysis of child language samples. Strategies for explaining language development to parents and professional colleagues.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

SPED 881 Methods for Students with Intellectual and Severe Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)

SPED
881

Prereqs:
SPED 480 (<http://bulletin.unl.edu/courses/SPED/480>) / 880 (<http://bulletin.unl.edu/courses/SPED/880>)

SPED 881 (<http://bulletin.unl.edu/courses/SPED/881>) requires observations in schools and applied assignments.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Planning, implementing, and evaluating effective longitudinal education for individuals with intellectual impairments and severe disabilities. Knowledge and skills regarding best practices within inclusive education settings for these learners emphasizing an ecological and functional model that addresses useful skills in current and future environments.

SPED
882

Specialized Instruction for Students with Severe and Multiple Disabilities [LINK \(http://bulletin.unl.edu/courses/SPED/882\)](http://bulletin.unl.edu/courses/SPED/882)

Prereqs:

SPED *881 for the Severely/Multihandicapped endorsement program or SPED *862 for Preschool Handicapped endorsement program; and permission. Majors in severe disabilities must parallel with SPED 896P (<http://bulletin.unl.edu/courses/SPED/896P>) (1 cr).

This course is a prerequisite for: [SPED 981 \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

*SPED *882 requires observations in schools and applied assignments.*

Selection, design, and implementation of best practice instruction for students with severe disabilities, multiple disabilities, or deaf-blindness.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
886

Assessment, Evaluation, and Instruction of [LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)

Crosslisted as *TEAC 886*

This course is a prerequisite for: [EDPS 989 \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)

*TEAC/SPED *886 includes case study and planning for special student populations.*

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

- A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.
- B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED
890

Workshop Seminar [LINK \(http://bulletin.unl.edu/courses/SPED/890\)](http://bulletin.unl.edu/courses/SPED/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SPED
892

Special Topics in Education [LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

Prereqs:

EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED
893

Workshop Seminar [LINK \(http://bulletin.unl.edu/courses/SPED/893\)](http://bulletin.unl.edu/courses/SPED/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SPED

Student Teaching: Exceptional Learners [LINK \(http://bulletin.unl.edu/courses/SPED/897\)](http://bulletin.unl.edu/courses/SPED/897)

897**Prereqs:**
Permission

Laboratory and teaching experience in the area(s) of specialization.

- A. Mainstream (1–12 cr)
- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented (EDPS *897J)
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments
- Y. Inclusion
- Z. Multicultural Education

Credit Hours:	1–9
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

SPED

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/SPED/899\)](http://bulletin.unl.edu/courses/SPED/899)**Prereqs:**
Admission to masters degree program and permission of major adviser

Credit Hours:	1–10
Campus:	
Course Delivery:	Classroom

SPED

907**Seminar in Special Education**[LINK \(http://bulletin.unl.edu/courses/SPED/907\)](http://bulletin.unl.edu/courses/SPED/907)**Prereqs:**
Permission

- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments

Credit Hours:	1–3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SPED

908**Resource Consultation Services**[LINK \(http://bulletin.unl.edu/courses/SPED/908\)](http://bulletin.unl.edu/courses/SPED/908)**Prereqs:**
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), and one of the following: *831, *851, *861, *881; or permission

Roles and functions of school resource personnel in serving as educational consultants to regular school staff.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

932**Cognitive Strategy Instruction**[LINK \(http://bulletin.unl.edu/courses/SPED/932\)](http://bulletin.unl.edu/courses/SPED/932)**Prereqs:**
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *803, and *831 or permission

How to implement cognitive strategy instruction with students learning

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

difficulties. Practical model which allows students to successfully teach cognitive strategies. Metacognition, attribution training, and attention deficit disorders.

SPED
942 Strategic Approaches for EBD

[LINK \(http://bulletin.unl.edu/courses/SPED/942\)](http://bulletin.unl.edu/courses/SPED/942)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *804, and *841; or permission

Strategic therapy techniques for assessment and treatment of EBD.
A. Special Topics in EBD (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED
960 Family and School Collaboration in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/960\)](http://bulletin.unl.edu/courses/SPED/960)

Prereqs:
Professional experience or completion of one practicum and/or field experience with young children (birth to age 5) or other individuals ages 5 to 21 years who have disabilities

This course is a prerequisite for: [SPED 861 \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)

Functions and interactions of both family and education systems. Impact of having a child with a disability on the normal and stressed family system. Promote family–professional partnerships in assessment and intervention for the child and/or student with an IFSP/IEP. Communication skills are reviewed and practiced for effective teaming among educators and for interviewing, consulting, collaborating and coaching with family members and other community team members.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
980 Assessment of Students with Severe, Sensory, and Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/980\)](http://bulletin.unl.edu/courses/SPED/980)

Prereqs:
SPED *881 and *882; and permission

This course is a prerequisite for: [SPED 987E \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Designed to meet the needs of educators who conduct assessment of students with low incidence disabilities in school settings. Strategies emphasize assessing capabilities and needs in relationship to valued life outcomes. Processes of instructional outcomes. Some assessment conducted in schools and community settings. Learning outcomes individualized to match special education certification program.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SPED
981 Functional Assessment and Behavioral Support for Students with Severe Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

Prereqs:
SPED 882 (<http://bulletin.unl.edu/courses/SPED/882>) and permission. Majors in severe disabilities must parallel with SPED 896P (<http://bulletin.unl.edu/courses/SPED/896P>) (1 cr).

SPED 981 (<http://bulletin.unl.edu/courses/SPED/981>) requires observation in schools and applied assignments.

Assessment and intervention strategies for developing positive behavior support for students with severe disabilities or developmental disabilities who have challenging behavior. Rationale and principles for using an educative approach, functional behavior analysis, and a variety of individualized ecological and curricular interventions. Process of assessment conducted in school settings.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SPED
987E

Seminar in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Prereqs:
[SPED 980 \(http://bulletin.unl.edu/courses/SPED/980\)](http://bulletin.unl.edu/courses/SPED/980) and [981 \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

Credit Hours: 1-12
Campus:
Course Delivery: Classroom

SPED
990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/990\)](http://bulletin.unl.edu/courses/SPED/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12
Campus:
Course Delivery: Classroom

SPED
995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/995\)](http://bulletin.unl.edu/courses/SPED/995)

Prereqs:
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours: 3
Max credits per degree: 18
Campus:
Course Delivery: Classroom

SPED
996A

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/SPED/996A\)](http://bulletin.unl.edu/courses/SPED/996A)

(1-12, max 12) Independent operational research under faculty supervision.

Campus:
Course Delivery: Classroom

SPED
996B

Readings in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/996B\)](http://bulletin.unl.edu/courses/SPED/996B)

Prereqs:
Permission

(1-12, max 12) Readings on selected problems in special education.

Campus:
Course Delivery: Classroom

SPED
997E

Resource Teacher Externship

[LINK \(http://bulletin.unl.edu/courses/SPED/997E\)](http://bulletin.unl.edu/courses/SPED/997E)

Prereqs:
SPED *802, *803

Extensive practicum experience in school settings for individuals preparing to serve as school resource teachers and consultants.

Credit Hours: 1-6
Campus:
Course Delivery: Classroom

SPED

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SPED/999\)](http://bulletin.unl.edu/courses/SPED/999)

999

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Q
Courses for SLPA (SLPA)

CYAF
891 **Special Topics in Human Sciences** [LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)
Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMTD 891*

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SLPA
450/850 **Audiology for Educators of the Deaf or Hard of Hearing** [LINK \(http://bulletin.unl.edu/courses/SLPA/450\)](http://bulletin.unl.edu/courses/SLPA/450)

Anatomy and physiology of hearing; components of adequate evaluation for placement and educational planning; diagnosis using audiogram, functional and communication assessment; stimulation and utilization of residual hearing; and management of assistive and/or augmentative devices.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Web

SLPA
452/852 **Normal Language Development During School Years** [LINK \(http://bulletin.unl.edu/courses/SLPA/452\)](http://bulletin.unl.edu/courses/SLPA/452)

Normal syntactic, semantic, and pragmatic language development in school-age children and youth. Complex syntax, semantic development, pragmatic development, using language to learn, language-literacy relations, and abstract language development.

Credit Hours:	3
Course Delivery:	Classroom

SLPA
454/854 **Research Methodology in Speech-Language Pathology and Audiology** [LINK \(http://bulletin.unl.edu/courses/SLPA/454\)](http://bulletin.unl.edu/courses/SLPA/454)

Prereqs:
Speech-language pathology and audiology major.

Introduction to research principles, methods, and design. Survey and critique of research in special education and communication disorders.

Credit Hours:	3
Course Delivery:	Classroom

SLPA
461/861 **Language Disorders: Preschool Level** [LINK \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

Prereqs:
Parallel [SLPA 461L \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L) / [861L \(http://bulletin.unl.edu/courses/SLPA/861L\)](http://bulletin.unl.edu/courses/SLPA/861L).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Characteristics of language impaired preschool children and the nature of their disorders. Introduction to principles of assessment and treatment.

SLPA

Language Disorders: Preschool Level Lab

[LINK \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)

461L/861L

Prereqs:

Parallel with [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)/861 (<http://bulletin.unl.edu/courses/SLPA/861>).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

Practical application of language assessment and intervention in preschool children with language disorders.

Credit Hours:	1
Course Format:	Lab
Course Delivery:	Classroom

SLPA

Augmentative Communication

[LINK \(http://bulletin.unl.edu/courses/SLPA/486\)](http://bulletin.unl.edu/courses/SLPA/486)

486/886

Speech pathology students must register for 3 cr only; special education students may register for 2-3

Introduction to the augmentative communication options for persons unable to speak or write because of physical, language, or cognitive disability.

Credit Hours:	2-3
Course Delivery:	Classroom

SLPA

Linguistic Needs of Bilingual and Culturally Different Students

[LINK \(http://bulletin.unl.edu/courses/SLPA/488\)](http://bulletin.unl.edu/courses/SLPA/488)

488/888

Prereqs:

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [251 \(http://bulletin.unl.edu/courses/SLPA/251\)](http://bulletin.unl.edu/courses/SLPA/251) or permission.

Theoretical and applied information about situational factors which have an impact on spoken and written language; addresses how individual differences due to gender, handicapping conditions, socio-economic status, and cultural-ethnic background contribute to diversity in communication patterns and often act as a barrier to successful interactions in learning and social settings.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	9 [?]

SLPA

Readings and Research in Speech-Language Pathology and Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/496\)](http://bulletin.unl.edu/courses/SLPA/496)

496/896

Prereqs:

Permission.

Credit Hours:	1-3
Course Delivery:	Classroom

SLPA

Clinical Phonology: Assessment and Management

[LINK \(http://bulletin.unl.edu/courses/SLPA/851\)](http://bulletin.unl.edu/courses/SLPA/851)

851

Prereqs:

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [464 \(http://bulletin.unl.edu/courses/SLPA/464\)](http://bulletin.unl.edu/courses/SLPA/464) or permission

Theoretical foundations; applied clinical phonology.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

Neurological Foundations of Speech and Language

[LINK \(http://bulletin.unl.edu/courses/SLPA/853\)](http://bulletin.unl.edu/courses/SLPA/853)

853

Basic concepts of neurology, protection and blood supply of the Central Nervous System (CNS), anatomical structures of the CNS, neuromotor control of speech, cranial nerves for speech production and neuron motor disorders.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

862**Language Disorders in Special Populations**[LINK \(http://bulletin.unl.edu/courses/SLPA/862\)](http://bulletin.unl.edu/courses/SLPA/862)

Advanced information about language disorders, assessment, and intervention in various populations.

- A. Birth to Three: Communication Assessment and Intervention
- E. Preadolescents and Adolescents
- J. Severe Disabilities and Autism: Communication Assessment and Intervention
- K. Special Topics in Language Disorders

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

SLPA

863**Language Disorders in Elementary School-aged Population**[LINK \(http://bulletin.unl.edu/courses/SLPA/863\)](http://bulletin.unl.edu/courses/SLPA/863)

Advanced information about language disorders, assessment, and intervention in elementary school-aged children.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

865**Voice Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/865\)](http://bulletin.unl.edu/courses/SLPA/865)**Prereqs:**

[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455)

Etiology and symptoms of voice disorders, procedures used in clinical evaluation, and methods and procedures used in therapy.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

884**Speech and Language Development of the Hearing Impaired**

Crosslisted as *SPED 884*

[LINK \(http://bulletin.unl.edu/courses/SLPA/884\)](http://bulletin.unl.edu/courses/SLPA/884)

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

885**Fluency Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/885\)](http://bulletin.unl.edu/courses/SLPA/885)

Research related to the nature, diagnosis and clinical management of stuttering is considered. Therapy models are presented along with data bearing on the efficacy of particular approaches. Specific rehabilitation procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

Language and Learning Disorders[LINK \(http://bulletin.unl.edu/courses/SLPA/887\)](http://bulletin.unl.edu/courses/SLPA/887)

887**Prereqs:**
For non-SLPA majors only

Review of prominent theories relating language to cognitive development and learning; student interaction on how varying styles and abnormal skills influence normal learning; how modifications can be made in materials content and classrooms to accommodate a child that has a language and learning disorder.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/SLPA/890\)](http://bulletin.unl.edu/courses/SLPA/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SLPA

892**Counseling and Behavior Issues in Speech Language Pathology**[LINK \(http://bulletin.unl.edu/courses/SLPA/892\)](http://bulletin.unl.edu/courses/SLPA/892)

Basic skills in counseling and behavior management as applied to the field of communication disorders. Practical, direct application to students' clinical work with individuals with a variety of communication disorders.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

SLPA

893**Clinical Decision Making**[LINK \(http://bulletin.unl.edu/courses/SLPA/893\)](http://bulletin.unl.edu/courses/SLPA/893)

Critical Thinking skills necessary for decision-making during the assessment and treatment of individuals with communication disorders. Understanding and applying clinical processes related to the practice of speech-language pathology.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

SLPA

897**Advanced Practicum**[LINK \(http://bulletin.unl.edu/courses/SLPA/897\)](http://bulletin.unl.edu/courses/SLPA/897)**Prereqs:**
Completion of the undergraduate preprofessional program

Supervised practicum experiences provided with difficult speech, language and/or hearing problems in a variety of clinical, medical, geriatric, rehabilitational and public school settings.

- A. Audiology (1-3 cr per sem)
- B. Speech/Language Pathology (1-3 cr per sem)
- E. Externship (1-3 cr per sem)
- G. Public Schools (1-3 cr per sem)
- T. Externship in Audiology (1-6 cr per sem, max 12)

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Field
Campus:	
Course Delivery:	Classroom

SLPA

898**Special Topics in Speech Pathology and Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/898\)](http://bulletin.unl.edu/courses/SLPA/898)**Prereqs:**
Permission

Special topics in speech pathology and audiology.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

SLPA

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/SLPA/899\)](http://bulletin.unl.edu/courses/SLPA/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours: 1-10**Campus:****Course Delivery:** Classroom

SLPA

902**Advanced Clinical Evaluation**[LINK \(http://bulletin.unl.edu/courses/SLPA/902\)](http://bulletin.unl.edu/courses/SLPA/902)

Instruction and practice in understanding, applying, and interpreting advanced clinical tests. Understanding the use of differential diagnostic tests used in assessment of peripheral and central lesions.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

SLPA

904**Basic Instrumentation**[LINK \(http://bulletin.unl.edu/courses/SLPA/904\)](http://bulletin.unl.edu/courses/SLPA/904)

Basic electrical theory and practical electronic information for the audiologist. Basic electrical and electronic information applicable to hearing, perception and acoustics. Basic electronics and electronic components, analog and digital circuits, transducers, calibration of audiometric instruments, amplifiers, attenuators and test equipment.

Credit Hours: 3**Course Format:** Lab, Lecture**Campus:****Course Delivery:** Classroom

SLPA

906**Advanced Clinical Assessment II**[LINK \(http://bulletin.unl.edu/courses/SLPA/906\)](http://bulletin.unl.edu/courses/SLPA/906)

Issues of professionalism and the development of best-practice models in Audiology. Relationship-centered patient care and the impact of multicultural issues on the practice of Audiology. Use of clinical decision analysis and evidence-based practice. Application to the common clinical assessment tools discussed in the "Advanced Audiological Assessment I" course.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

SLPA

908**Physiological Acoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/908\)](http://bulletin.unl.edu/courses/SLPA/908)

Pneumatic/mechanical/hydraulic/electrical interfaces involved in the transduction of acoustic energy through the auditory system. Investigation of external ear biophysics, the middle ear transfer function, cochlear hydrodynamics and hydro-mechanics, and auditory biopotentials.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

SLPA

910**Auditory Signal Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/910\)](http://bulletin.unl.edu/courses/SLPA/910)

Principles of signal processing relevant to tests of hearing and to theories of functioning of the auditory system. Introduction of concepts in mathematics, vibration and acoustics. Time- and frequency-domain representations of signals, digital filtering, analysis of lumped-element circuits, linear and nonlinear signal analyses, modulation theory, and the effect of noise on measurements. Applications relevant to audiology including hearing aid performance and measurements, middle-ear transmission, cochlear mechanics, and auditory-nerve firing patterns. Application of these models to understanding physiological sources of conductive and sensorineural

Credit Hours: 3**Campus:****Course Delivery:** Classroom

hearing loss.

SLPA

912

Psychoacoustics

[LINK \(http://bulletin.unl.edu/courses/SLPA/912\)](http://bulletin.unl.edu/courses/SLPA/912)

Psychoacoustic aspects of audition, including psychoacoustic instrumentation, masking level differences, psychoacoustical scaling, difference limen for intensity and frequency, loudness, critical bands and critical ratios, absolute threshold measurement, differential threshold measurement, and temporal summation. Brief investigations of certain psychoacoustic phenomena.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

916

Medical Aspects of Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/916\)](http://bulletin.unl.edu/courses/SLPA/916)

Effects of, and principles of, medical management of disorders of the cochlea, retrocochlear region, and central auditory mechanism. Anatomy and physiology of the inner ear and central auditory pathways, function and physiology of the vestibule and labyrinth, and histology and biochemistry of the inner ear and ascending auditory tracts.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

918

Auditory Assessment of Infants and Children

[LINK \(http://bulletin.unl.edu/courses/SLPA/918\)](http://bulletin.unl.edu/courses/SLPA/918)

Prereqs:
[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Development of the auditory system in infants and young children. Techniques used in differential diagnosis, and screening of auditory disorders in the pediatric population.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

920

Electrophysiological Assessment of Hearing

[LINK \(http://bulletin.unl.edu/courses/SLPA/920\)](http://bulletin.unl.edu/courses/SLPA/920)

Instrumentation and procedures for electrophysiologic evaluation of the auditory system. Procedures and special tests include Electrocochleography, Auditory Brainstem Response, Middle Latency Response, Late Cortical Response, and others.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

922

Pharmacology for Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/922\)](http://bulletin.unl.edu/courses/SLPA/922)

Introduction to pharmacological chemistry, drugs, and drug interactions. Ototoxic drugs and other drugs frequently seen in patients in audiology practice settings.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA

924

Sensory Technology and Rehabilitation for the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SLPA/924\)](http://bulletin.unl.edu/courses/SLPA/924)

Prereqs:
[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Students will initiate and carry out directed laboratory assignments.

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

Conventional analog hearing aids which includes: the design and operation of hearing aids, electroacoustic measurements and accompanying instrumentation, earmold and plumbing acoustics, evaluation and selection procedures (adults), orientation

SLPA

926

Sensory Technology and Rehabilitation for the Hearing Impaired II [LINK \(http://bulletin.unl.edu/courses/SLPA/926\)](http://bulletin.unl.edu/courses/SLPA/926)

Prereqs:

[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Students will be expected to engage in class presentations. Various assistive technologies, other than conventional analog hearing aids, utilized by persons who are deaf and hard of hearing. Technologies such as cochlear implants, tactile devices, radio frequency systems, digital hearing aids, and telephone, television and alerting devices. Information regarding pediatric amplification, counseling, and speechreading introduced.

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

SLPA

928

Hearing Conservation and Industrial Audiology [LINK \(http://bulletin.unl.edu/courses/SLPA/928\)](http://bulletin.unl.edu/courses/SLPA/928)

Theories and basic resources for participation in industrial, government, or community hearing conservation programs.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA

930

Genetics of Hearing Loss [LINK \(http://bulletin.unl.edu/courses/SLPA/930\)](http://bulletin.unl.edu/courses/SLPA/930)

The genetic basis for hearing loss.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SLPA

932

Vestibular Assessment I [LINK \(http://bulletin.unl.edu/courses/SLPA/932\)](http://bulletin.unl.edu/courses/SLPA/932)

Students will initiate and carry out directed laboratory assignments.

The first of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Normal anatomy and physiology of the balance and ocular motor systems, contrasted with a wide range of pathological conditions. Electronystagmography (video-nystagmography two- and three-dimensional recordings) and assessment of the otolith organs.

Credit Hours: 4

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

SLPA

934

Vestibular Assessment II [LINK \(http://bulletin.unl.edu/courses/SLPA/934\)](http://bulletin.unl.edu/courses/SLPA/934)

The second of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Advanced techniques for patient assessment using rotational chair and posturography protocols. Techniques for full assessment in an office situation without extensive equipment. Options for treatment and management of this group of patients. Vestibular and balance rehabilitation therapy program development.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

936**Implantable Prosthetics**[LINK \(http://bulletin.unl.edu/courses/SLPA/936\)](http://bulletin.unl.edu/courses/SLPA/936)

Design, operation, candidacy, assessment, surgical procedures, fitting, verification, and rehabilitation procedures related to implantable prosthetic devices for individuals who are deaf and hard of hearing. Cochlear implants, bone anchored hearing aids, implantable middle ear devices, and auditory brainstem implants.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

938**Private Practice and/or Clinic Management**[LINK \(http://bulletin.unl.edu/courses/SLPA/938\)](http://bulletin.unl.edu/courses/SLPA/938)

Principles and procedures for starting and surviving as an independent practitioner in audiology. Practice management strategies for use in any audiological setting.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA

940**Aural Rehabilitation Across the Lifespan**[LINK \(http://bulletin.unl.edu/courses/SLPA/940\)](http://bulletin.unl.edu/courses/SLPA/940)

Habilitation (for pre-lingual deaf and hard of hearing infants and toddlers) and rehabilitation efforts for individuals of all ages who are deaf or hard of hearing.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

942**Seminar in Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/942\)](http://bulletin.unl.edu/courses/SLPA/942)

Research and clinical procedures; findings and implications in audiology and hearing science.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

956**Language Study of Teachers of Deaf and Hard of Hearing (DHH)** [LINK \(http://bulletin.unl.edu/courses/SLPA/956\)](http://bulletin.unl.edu/courses/SLPA/956)Crosslisted as *SPED 956*

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

964**Speech Perception and Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/964\)](http://bulletin.unl.edu/courses/SLPA/964)**Prereqs:**

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or permission

Human and computer perception and processing of speech. The speech code and its representation in the brain, laboratory techniques for perceptual experimentation, acoustic analysis of speech, and computer synthesis of speech.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

966**Swallowing Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/966\)](http://bulletin.unl.edu/courses/SLPA/966)

Swallowing disorders of children and adults. Procedures used in assessment, diagnosis, and intervention.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

967**Cleft Palate**[LINK \(http://bulletin.unl.edu/courses/SLPA/967\)](http://bulletin.unl.edu/courses/SLPA/967)**Prereqs:**

[SLPA 464 \(http://bulletin.unl.edu/courses/SLPA/464\)](http://bulletin.unl.edu/courses/SLPA/464) or equivalent

Communication, dental, medical, and associated problems related to cleft palate.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

968**Motor Speech Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/968\)](http://bulletin.unl.edu/courses/SLPA/968)**Prereqs:**

SLPA *853

Motor speech disorders resulting from neuropathology of the central and peripheral nervous systems as found in cerebral palsy, Parkinsonism, and other developmental and acquired neuromotor problems of children and adults.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

980A**Seminar in Speech Physiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/980A\)](http://bulletin.unl.edu/courses/SLPA/980A)**Prereqs:**

[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

980B**Seminar in Speech Acoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/980B\)](http://bulletin.unl.edu/courses/SLPA/980B)**Prereqs:**

[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

981**Seminar in Speech Pathology**[LINK \(http://bulletin.unl.edu/courses/SLPA/981\)](http://bulletin.unl.edu/courses/SLPA/981)**Prereqs:**

SLPA *851, *865, 967, and/or 968

Research procedures, findings and clinical implications in the following areas:
B. Fluency Disorders (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

- D. Voice Disorders (1–3 cr)
- E. Motor Speech Disorder (1–3 cr)

SLPA
983

Seminar in Language

[LINK \(http://bulletin.unl.edu/courses/SLPA/983\)](http://bulletin.unl.edu/courses/SLPA/983)

Prereqs:
[SLPA 251 \(http://bulletin.unl.edu/courses/SLPA/251\)](http://bulletin.unl.edu/courses/SLPA/251) or [852 \(http://bulletin.unl.edu/courses/SLPA/852\)](http://bulletin.unl.edu/courses/SLPA/852) or permission

Research procedures, findings and implications in language pathology and treatment in the areas of development, evaluation and habilitation.
 A. Child Language Development and Disorders (1–3 cr)
 B. Adolescent/Adult Language Development and Disorders (1–3 cr)
 E. Augmentative/Alternative Communication (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SLPA
984

Seminar in Augmentative Communication

[LINK \(http://bulletin.unl.edu/courses/SLPA/984\)](http://bulletin.unl.edu/courses/SLPA/984)

Prereqs:
[SLPA 886 \(http://bulletin.unl.edu/courses/SLPA/886\)](http://bulletin.unl.edu/courses/SLPA/886)

Advanced seminar on research literature in the augmentative communication field.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
985

Traumatic Brain Injury

[LINK \(http://bulletin.unl.edu/courses/SLPA/985\)](http://bulletin.unl.edu/courses/SLPA/985)

Prereqs:
 SLPA *853

Assessment and treatment of child and adult cognitive and communication disorders resulting from traumatic brain injury.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA
987

Aphasia in Adults

[LINK \(http://bulletin.unl.edu/courses/SLPA/987\)](http://bulletin.unl.edu/courses/SLPA/987)

Prereqs:
 SLPA *853

Adult language disorders resulting from stroke or other acquired central nervous system insult. Includes historical/theoretical development of understanding, cerebral dominance for language, classifications, rationale for diagnostic and therapeutic management, prognostic factors, agnosias and apraxia.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA
990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SLPA/990\)](http://bulletin.unl.edu/courses/SLPA/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SLPA
994

Doctoral Capstone Thesis

[LINK \(http://bulletin.unl.edu/courses/SLPA/994\)](http://bulletin.unl.edu/courses/SLPA/994)

Selection of the topic for this project should take place no later than the

Credit Hours:	3
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summer of the third year by consultation with the project adviser. Enrollment in SLPA 994 (<http://bulletin.unl.edu/courses/SLPA/994>) is required during each semester that the project is underway. Capstone experience prepared in the form of a research project paper containing a significant treatment of some aspect of audiology.

Max credits per degree: 9

Course Format: Independent Study

Campus:

Course Delivery: Classroom

SLPA

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/SLPA/995\)](http://bulletin.unl.edu/courses/SLPA/995)

Prereqs:
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours: 3

Max credits per degree: 18

Campus:

Course Delivery: Classroom

SLPA

996

Research Problems Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/SLPA/996\)](http://bulletin.unl.edu/courses/SLPA/996)

Prereqs:
Permission

Credit Hours: 1-9

Campus:

Course Delivery: Classroom

SLPA

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SLPA/999\)](http://bulletin.unl.edu/courses/SLPA/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

Courses for TEAC (TEAC)

BIOC

869

Chemistry for Secondary School Classrooms

Crosslisted as BIOS 883, CHEM 869, TEAC 869

[LINK \(http://bulletin.unl.edu/courses/BIOC/869\)](http://bulletin.unl.edu/courses/BIOC/869)

Credit in this course will not count towards a graduate degree in chemistry or biochemistry or biological sciences. Course taught via World Wide Web. Chemistry content for high school teachers organized according to the National Science Education Standards. Individual course coverage includes: content, integration with other sciences and mathematics, graphing calculators, probe-experiments, simulations, at-home experiments, teaching materials, and industrial applications related to the title description.

- A. Structure and Properties of Matter: Water and Solutions (1 cr)
- B. Structure and Properties of Matter: Periodicity (1 cr)
- D. Structure and Properties of Matter: Bonding and Structure (1 cr)
- E. Structure and Properties of Matter: Carbon Chemistry and Polymers (1 cr)
- J. Structure and Properties of Matter: Gases and the Atmosphere (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1 cr)
- L. Structure and Properties of Matter: Condensed States and Materials Science (1 cr)
- M. Interactions of Matter and Energy (1 cr)
- N. Chemistry of Life Processes: DNA (1 cr)

Credit Hours: 1

Max credits per degree: 12

Campus:

Course Delivery: Classroom

- P. Chemistry of Life Processes: Energy and Metabolism (1 cr)
- Q. Chemical Reactions: Equations and their Consequences (1 cr)
- R. Chemical Reactions: Acids and Bases (1 cr)
- T. Chemical Reactions: Kinetics (1 cr)
- U. Chemical Reactions: Oxidation, Reduction and Electrochemistry (1 cr)
- V. Equilibrium: Unifying Theme (1 cr)
- W. Conservation of Energy and the Increase in Disorder: Thermodynamics (1 cr)
- Y. Inquiry and the Nature of Science: Analysis and Instrumentation (1 cr)
- Z. Structure of Atoms: Nuclear Chemistry (1 cr)

CHEM **874** **Topics in Chemical Pedagogy**

[LINK \(http://bulletin.unl.edu/courses/CHEM/874\)](http://bulletin.unl.edu/courses/CHEM/874)

Crosslisted as *TEAC 874*

A maximum combined total of 12 hours from TEAC *869 and/or *874 may be counted toward a masters degree. Credit in this course will not count towards a graduate degree in chemistry. Courses are Web-based. Topical chemistry content for high school teachers organized according to the National Science Education Standards.

- A. Green Chemistry (2-3 cr)
- D. Demonstrations for High School Chemistry (1-3 cr)
- E. Experiments for High School Chemistry (1-3 cr)
- J. Developing a Safety Culture (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1-3 cr)
- L. Addressing Misconceptions (1-3 cr)
- M. Mathematics Integration ([MATH 874M](http://bulletin.unl.edu/courses/MATH/874M) (<http://bulletin.unl.edu/courses/MATH/874M>)) (2-3 cr) May be counted towards the MAT and MScT degrees in mathematics and statistics, not the MA, MS, or PhD.
- N. Inquiry Strategies (1-3 cr)
- P. Chemistry in the Workplace (1-3 cr)
- Y. Graphing Calculator Activities (2-3 cr)

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

CHEM **875** **Chemical Pedagogy in the High School Laboratory**

[LINK \(http://bulletin.unl.edu/courses/CHEM/875\)](http://bulletin.unl.edu/courses/CHEM/875)

Crosslisted as *TEAC 875*

Credit in this course will not count towards a graduate degree in chemistry. Laboratory-based courses addressing specific issues connected with teaching laboratory work in high school chemistry programs.

- A. Small-scale Experiments (1-3 cr)
- B. Technology Integration (3-6 cr)
- E. Inquiry Experiments (1-3 cr)
- K. At-home Experiments (1-3 cr)
- P. Probe Experiments (1-3 cr)
- T. Traditional Experiments (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

COMM **427/827** **Instructional Communication**

[LINK \(http://bulletin.unl.edu/courses/COMM/427\)](http://bulletin.unl.edu/courses/COMM/427)

Crosslisted as *TEAC 429/829*

Prereqs:
Junior/senior standing; College of Education and Human Sciences major; COMM 200 (<http://bulletin.unl.edu/courses/COMM/200>), 201 (<http://bulletin.unl.edu/courses/COMM/201>); or permission.

Advanced introductory course in instructional communication, focusing on understanding variables associated with the communication process in instructional settings and managing instructional communication more effectively. Provides an experimental and a cognitive understanding of the role of communication in the instructional process.

Credit Hours:	3
Course Delivery:	Classroom

CYAF **814** **Evaluation in Career and Technical Education**

[LINK \(http://bulletin.unl.edu/courses/CYAF/814\)](http://bulletin.unl.edu/courses/CYAF/814)

Crosslisted as *TEAC 814*

Two aspects of evaluation in the classroom: 1) selection and use of evaluation in assessing learning, and 2) consideration of conceptual and methodological issues in conducting evaluation to determine and account for the effectiveness of programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
891

Special Topics in Human Sciences

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMFD 891*

[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDAD
855

Teaching Learners to Learn

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
948

Instructional Leadership: Emerging Trends and Practices

Crosslisted as *TEAC 948*

[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
991

Field Studies in Education

Crosslisted as *NUTR 991, TEAC 991*

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS
935

Seminar in Qualitative Research

Crosslisted as *TEAC 935*

[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)

Prereqs:
[EDUC 900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

989**Psychology of Reading**Crosslisted as *TEAC 989*[LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)**Prereqs:**TEAC *811 or 841 or [SPED 886](http://bulletin.unl.edu/courses/SPED/886)<http://bulletin.unl.edu/courses/SPED/886>

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL

895A**Nebraska Writing Project Internship**Crosslisted as *TEAC 895A*[LINK \(http://bulletin.unl.edu/courses/ENGL/895A\)](http://bulletin.unl.edu/courses/ENGL/895A)**Prereqs:**

Permission

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL

992**Nebraska Humanities Project**Crosslisted as *TEAC 992*[LINK \(http://bulletin.unl.edu/courses/ENGL/992\)](http://bulletin.unl.edu/courses/ENGL/992)

Credit Hours:	1-24
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL

992B**Place Conscious Teaching**Crosslisted as *TEAC 992B*[LINK \(http://bulletin.unl.edu/courses/ENGL/992B\)](http://bulletin.unl.edu/courses/ENGL/992B)

Theory and practice of teaching writing, literature, and rhetoric in connection with local place, region, and community.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MUED

450/850**American Cultural Perspectives through Popular Music and Guitar**Crosslisted as *MUNM 450, TEAC 450/850*[LINK \(http://bulletin.unl.edu/courses/MUED/450\)](http://bulletin.unl.edu/courses/MUED/450)

Exploration of the historical, social and cultural context of late 19th and 20th century America through learning to play jazz and popular music on the guitar to provide an authentic, performance-based encounter in music.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
ACE Outcomes:	5 [?] , 7 [?]
Groups:	Music Education (MUED)

MUED

473/873**Approaches to Middle School General Music**Crosslisted as *TEAC 873*[LINK \(http://bulletin.unl.edu/courses/MUED/473\)](http://bulletin.unl.edu/courses/MUED/473)

Prereqs:
MUED 344 (<http://bulletin.unl.edu/courses/MUED/344>) or permission.

For prospective new and experienced general music/middle school teachers. Characteristics of middle school students, materials, methodology, guitar and recorder techniques, and curriculum development.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Education (MUED)

MUED
845

Historical and Philosophical Foundations of American Music Education [LINK \(http://bulletin.unl.edu/courses/MUED/845\)](http://bulletin.unl.edu/courses/MUED/845)

Crosslisted as *TEAC 845*

Prereqs:
Undergraduate degree in MUED.

MUED 845 (<http://bulletin.unl.edu/courses/MUED/845>) is required for a graduate degree in music education.

Historical overview of American music education practices from the Singing School tradition to today. Major philosophical influences in American music education, writings regarding aesthetic education, equity, ethical practice, gender, meaning, and profundity. The writings of Stublely, Reimer, Mark, Gary, Hylton, Richmond and others are considered.

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture
Course Delivery:	Classroom

SPED
406/806

Reading and Writing Disabilities: Adolescents [LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

Crosslisted as *TEAC 806*

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/800 (<http://bulletin.unl.edu/courses/SPED/800>), SPED 412 (<http://bulletin.unl.edu/courses/SPED/412>)/812 (<http://bulletin.unl.edu/courses/SPED/812>), and (TEAC 441 (<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Parallel **SPED 406A (<http://bulletin.unl.edu/courses/SPED/406A>)/806A (<http://bulletin.unl.edu/courses/SPED/806A>).**

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED
406A/806A

Reading Center Practicum II [LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Crosslisted as *TEAC 806A*

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/800 (<http://bulletin.unl.edu/courses/SPED/800>), 412 (<http://bulletin.unl.edu/courses/SPED/412>)/812 (<http://bulletin.unl.edu/courses/SPED/812>), and (TEAC 441 (<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Taken parallel with **SPED 406 (<http://bulletin.unl.edu/courses/SPED/406>)/806 (<http://bulletin.unl.edu/courses/SPED/806>).**

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

SPED 406A (<http://bulletin.unl.edu/courses/SPED/406A>)/806A (<http://bulletin.unl.edu/courses/SPED/806A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

SPED

886**Assessment, Evaluation, and Instruction of**Crosslisted as *TEAC 886*[LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)This course is a prerequisite for: [EDPS 989 \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)*TEAC/SPED *886 includes case study and planning for special student populations.*

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.

B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED

892**Special Topics in Education**Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)**Prereqs:****EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent**

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC

402/802**Contemporary Children's Literature: Principles and Practices**[LINK \(http://bulletin.unl.edu/courses/TEAC/402\)](http://bulletin.unl.edu/courses/TEAC/402)**Prereqs:****TEAC 302 (<http://bulletin.unl.edu/courses/TEAC/302>) and successful completion of student teaching or permission.**

Contemporary literature for children, all forms and genres; development of meaningful and creative learning activities for children; professional readings and research related to children's literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

408/808**Improvement of Instruction in School Mathematics**[LINK \(http://bulletin.unl.edu/courses/TEAC/408\)](http://bulletin.unl.edu/courses/TEAC/408)

Techniques, plans, and procedures for improving instruction in mathematics. Analysis of current instructional and supervisory practices. Evaluation of research and instructional materials. A. Primary: K–3 (3 cr) B. Elementary: 4–6 (3 cr) E. Secondary: 7–12 (3 cr) J. Special Topics (3 cr)

Credit Hours:	3
Max credits per degree:	12
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC

411/811**Reading Processes and Practices**[LINK \(http://bulletin.unl.edu/courses/TEAC/411\)](http://bulletin.unl.edu/courses/TEAC/411)

Overview of reading processes and programs with attention to strategies for comprehension and word identification, approaches, and materials. A. Teaching Reading (3 cr) B. Special Topics in Reading (1–6 cr)

Credit Hours:	3
Course Delivery:	Classroom

TEAC

413/813**Studies in Teaching English as a Second Language**[LINK \(http://bulletin.unl.edu/courses/TEAC/413\)](http://bulletin.unl.edu/courses/TEAC/413)

Preparation for teaching K–12 learners whose language of nurture is not English. A. ESL: Acquisition (1–3 cr) B. ESL: Teaching and Curriculum (1–3 cr)

Credit Hours:	1–15
Max credits per degree:	15

TEAC **Teaching English Language Learners (ELLs) in Content Areas** [LINK \(http://bulletin.unl.edu/courses/TEAC/413M\)](http://bulletin.unl.edu/courses/TEAC/413M)**413M/813M**

[TEAC 413M \(http://bulletin.unl.edu/courses/TEAC/413M\)](http://bulletin.unl.edu/courses/TEAC/413M)/[813M \(http://bulletin.unl.edu/courses/TEAC/813M\)](http://bulletin.unl.edu/courses/TEAC/813M) is required for English Language Learner (ELL) certification.

Theory and pedagogy in the teaching of English Language Learners (ELLs) in course content areas at all levels of K–12 education. Identify and design linguistically and culturally responsive instruction for English learners in the disciplines (e.g. language arts, science, mathematics, social sciences).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC **Teaching English Overseas** [LINK \(http://bulletin.unl.edu/courses/TEAC/413P\)](http://bulletin.unl.edu/courses/TEAC/413P)**413P/413X/813P**

Methodologies for teaching English to speakers of other languages (TESOL) in international settings.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC **Inclusive Early Childhood Methods** [LINK \(http://bulletin.unl.edu/courses/TEAC/416\)](http://bulletin.unl.edu/courses/TEAC/416)**416/816**

Prereqs:
Admission to the Inclusive Early Childhood Teacher Education Program;
FACS 270 (<http://bulletin.unl.edu/courses/FACS/270>), [270L \(http://bulletin.unl.edu/courses/FACS/270L\)](http://bulletin.unl.edu/courses/FACS/270L), [374 \(http://bulletin.unl.edu/courses/FACS/374\)](http://bulletin.unl.edu/courses/FACS/374), and [374L \(http://bulletin.unl.edu/courses/FACS/374L\)](http://bulletin.unl.edu/courses/FACS/374L).

The creation and practice of developmentally appropriate instruction in curricular areas for K to 3rd grades. Role of the teacher and/or facilitator in relationship to the primary curriculum and learning environment. A. Literacy Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D \(http://bulletin.unl.edu/courses/TEAC/397D\)](http://bulletin.unl.edu/courses/TEAC/397D). B. Social Studies and Science Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D \(http://bulletin.unl.edu/courses/TEAC/397D\)](http://bulletin.unl.edu/courses/TEAC/397D). D. Mathematics Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel Math 200.

Credit Hours:	3
Max credits per semester:	9
Course Format:	Lecture
Course Delivery:	Classroom

TEAC **Teaching Writing in the Elementary School** [LINK \(http://bulletin.unl.edu/courses/TEAC/418\)](http://bulletin.unl.edu/courses/TEAC/418)**418/818**

Learning and teaching of writing with consideration given to developmental factors of children and adolescents.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Teaching Foreign Language in the Elementary School** [LINK \(http://bulletin.unl.edu/courses/TEAC/420\)](http://bulletin.unl.edu/courses/TEAC/420)**420/820**

Theory, research and practice of most recent foreign language models and strategies.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Coordination in Occupational Training Programs** [LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)**425/825**

Crosslisted as *EDAD 825*

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours: 1-3

Course Delivery: Classroom

TEAC **Introduction to Philosophy of Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/430\)](http://bulletin.unl.edu/courses/TEAC/430)

430/830

Open to advanced undergraduates and graduate students

Fundamental ideas and skills that students can use to begin to form personal philosophical perspectives on education that can be justified intellectually, practically, and ethically. Using case studies of realistic school situations and the theoretical work of a range of writers in education, students explore conceptions of teaching, learning, curriculum, and the relationship between school and society.

Credit Hours: 3

Course Delivery: Classroom

TEAC **Studies in the Foundations of Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/431\)](http://bulletin.unl.edu/courses/TEAC/431)

431/831

Social and cultural analyses of curriculum, teaching, and education policy from disciplinary perspectives. A. The Anthropology of Education (3 cr) B. The History of Education (3 cr) E. The Sociology of Education (3 cr) J. Special Topics (3 cr)

Credit Hours: 3

Max credits per degree: 12

Course Delivery: Classroom

TEAC **Higher Education in America**

[LINK \(http://bulletin.unl.edu/courses/TEAC/432\)](http://bulletin.unl.edu/courses/TEAC/432)

432/832

Prereqs:
12 hrs education.

History and development of America's colleges and universities and recent trends and problems in higher education.

Credit Hours: 3

Course Delivery: Classroom

TEAC **Comparative Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/433\)](http://bulletin.unl.edu/courses/TEAC/433)

433/833

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

TEAC **Comparative Education Survey**

[LINK \(http://bulletin.unl.edu/courses/TEAC/433A\)](http://bulletin.unl.edu/courses/TEAC/433A)

433A/833A

Comparative Education investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'A' format is a survey course that considers examples from all over the world. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours: 3

Max credits per semester: 3

Course Format: Lecture 3

Course Delivery: Classroom

TEAC **Comparative Education: Special Topics/Travel Study**

[LINK \(http://bulletin.unl.edu/courses/TEAC/433B\)](http://bulletin.unl.edu/courses/TEAC/433B)

433B/833B

Prereqs:
None

This course could be taken more than once for additional credits assuming the student uses it for travel-study to different places. For example, a student could not visit South Korea twice with the same professor teaching the same syllabus, but could visit South Korea once (as one 3-hour course) and South Africa (as another 3-hour course).

Course investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours:	3
Max credits per semester:	3
Max credits per degree:	9
Course Format:	Field 3
Course Delivery:	Classroom

TEAC

Ethics and Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/434\)](http://bulletin.unl.edu/courses/TEAC/434)

434/834

Open to advanced undergraduates and graduate students

Basic issues in ethics and education. Using theoretical material and case studies, students consider such ideas and issues as the nature of moral judgment, equality, justice, caring, and respect for persons, and discuss how educators might respond in ethically justifiable ways to difficult situations they may encounter.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Latin American Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/436\)](http://bulletin.unl.edu/courses/TEAC/436)

436/836

Prereqs:
12 hours education, social sciences, or Latin American Studies; or permission.

Survey of contemporary practices and problems in Latin American education, with special emphasis on the role of education in the national development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Linguistics for the Classroom School Teacher

[LINK \(http://bulletin.unl.edu/courses/TEAC/438\)](http://bulletin.unl.edu/courses/TEAC/438)

438/838

Prereqs:
Admission to the Teacher Education Program.

Analysis of various aspects of linguistic study including dialects, usage, modern grammar, semantics, lexicography, etc., and their application in the K-12 school English classroom. Investigation and clarification of language concepts and the development of teaching materials that can be used in the classroom.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Literature for Adolescents

[LINK \(http://bulletin.unl.edu/courses/TEAC/439\)](http://bulletin.unl.edu/courses/TEAC/439)

439/839

Prereqs:
Admission to a Teacher Education Program.

Wide range of young adult literature available for use in schools. Critical and rhetorical tools for responding to a variety of literary texts and techniques for eliciting a wider range of responses to literature; consideration for readers aged 11-16.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Content Area Reading, Grades 4–12LINK (<http://bulletin.unl.edu/courses/TEAC/441>)**441/841**

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>),
[SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>)

Simultaneous teaching of academic content and functional teaching of reading in the content areas; assessment of comprehension, vocabulary/concept attainment; analyses of text; improvement of content area learning through reading/writing development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Learning and Teaching Principles and PracticesLINK (<http://bulletin.unl.edu/courses/TEAC/451>)**451/851**

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306](http://bulletin.unl.edu/courses/TEAC/306) (<http://bulletin.unl.edu/courses/TEAC/306>) or [406](http://bulletin.unl.edu/courses/TEAC/406) (<http://bulletin.unl.edu/courses/TEAC/406>)/[806](http://bulletin.unl.edu/courses/TEAC/806) (<http://bulletin.unl.edu/courses/TEAC/806>). Investigates topics/issues impacting the teaching of art, including the theory and practice of discipline-based art education. Planning and incorporation of innovative approaches embracing the diversity of students. K. Career and Technical Education Prereq: As listed above. Procedures for writing, selecting and organizing subject matter for instruction. L. Methods of Teaching Information Technology (3 cr) Prereq: As listed above and [TEAC 259](http://bulletin.unl.edu/courses/TEAC/259) (<http://bulletin.unl.edu/courses/TEAC/259>); parallel [TEAC 397L](http://bulletin.unl.edu/courses/TEAC/397L) (<http://bulletin.unl.edu/courses/TEAC/397L>) or [894L](http://bulletin.unl.edu/courses/TEAC/894L) (<http://bulletin.unl.edu/courses/TEAC/894L>). Objectives, teaching materials, and methods of presentation emphasizing the organization and management of computer science instruction. [IS]N. Secondary Language Arts (3 or 4 cr) Prereq: As listed above, including [ENGL 357](http://bulletin.unl.edu/courses/ENGL/357) (<http://bulletin.unl.edu/courses/ENGL/357>), [377](http://bulletin.unl.edu/courses/ENGL/377) (<http://bulletin.unl.edu/courses/ENGL/377>); and [TEAC 438](http://bulletin.unl.edu/courses/TEAC/438) (<http://bulletin.unl.edu/courses/TEAC/438>)/[838](http://bulletin.unl.edu/courses/TEAC/838) (<http://bulletin.unl.edu/courses/TEAC/838>); and grade average of "B" (3.0) or better in subject-area. Theoretical issues in the teaching and learning of writing, language, and literature. *O. Marketing Education Prereq: As listed above and [TEAC 452K](http://bulletin.unl.edu/courses/TEAC/452K) (<http://bulletin.unl.edu/courses/TEAC/452K>). Objectives, teaching materials, selection, and organization of subject matter, and methods of instruction and evaluation in marketing. [IS]P. Secondary Mathematics Prereq: As listed above. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners. [IS]R. Secondary Modern Languages Prereq: As listed above. Investigates issues in second language learning and teaching from the perspective of proficiency: contextualized practice in reading, writing, speaking, listening, and culture. Methodological approaches, review of research, testing guidelines, accuracy, the affective and cognitive needs of students, and the incorporation of authentic materials/language. [IS]V. Secondary Science Prereq: As listed above and parallel with [TEAC 397](http://bulletin.unl.edu/courses/TEAC/397) (<http://bulletin.unl.edu/courses/TEAC/397>). Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners. [IS]W. Secondary Social Science Prereq: As listed above. Theoretical issues in teaching and learning in the individual and integrated social sciences.

Credit Hours:	3–4
Course Delivery:	Classroom

TEAC

Learning and Teaching Principles and Practices: Career and Technical EducationLINK (<http://bulletin.unl.edu/courses/TEAC/451K>)**451K/851K****Prereqs:**

Credit Hours:	3–4
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Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Procedures for writing, selecting and organizing subject matter for instruction.

TEAC **Learning and Teaching Principles and Practices: Secondary Mathematics** bulletin.unl.edu/courses/TEAC/451P
451P/851P

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Credit Hours: 3-4
Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners.

TEAC **Learning and Teaching Principles and Practices:** [LINK \(http://bulletin.unl.edu/courses/TEAC/451V\)](http://bulletin.unl.edu/courses/TEAC/451V)
451V/851V

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better. Parallel with TEAC 397V (<http://bulletin.unl.edu/courses/TEAC/397V>).

Credit Hours: 3-4
Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners.

TEAC **Curriculum Principles and Practices** [LINK \(http://bulletin.unl.edu/courses/TEAC/452\)](http://bulletin.unl.edu/courses/TEAC/452)
452/852

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with 2.5 GPA or better.

Credit Hours: 2-3
Course Delivery: Classroom

Focus on practical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306 \(http://bulletin.unl.edu/courses/TEAC/306\)](http://bulletin.unl.edu/courses/TEAC/306) or [406 \(http://bulletin.unl.edu/courses/TEAC/406\)](http://bulletin.unl.edu/courses/TEAC/406) or [806 \(http://bulletin.unl.edu/courses/TEAC/806\)](http://bulletin.unl.edu/courses/TEAC/806). Theory and research into curriculum incorporating technology, interdisciplinary approaches, active learning, and course content designed to enhance art understanding by students of diversity. J. Business Education Prereq: As listed above and [TEAC 451K \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K) and parallel with [TEAC 397I \(http://bulletin.unl.edu/courses/TEAC/397I\)](http://bulletin.unl.edu/courses/TEAC/397I). Objectives, teaching materials, selection and organization of subject matter, and methods of instruction and evaluation in business subjects. M. Industrial Education Prereq: As listed above and [TEAC 451K \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K) and parallel [TEAC 397M \(http://bulletin.unl.edu/courses/TEAC/397M\)](http://bulletin.unl.edu/courses/TEAC/397M). Objectives, curricula, methodology, evaluation, planning, classroom management and course organization. [IS]N. Secondary Language Arts Prereq: As listed above and parallel with [TEAC 397 \(http://bulletin.unl.edu/courses/TEAC/397\)](http://bulletin.unl.edu/courses/TEAC/397). Planning, teaching, and evaluating language arts lessons for diverse learners. P. Secondary Mathematics Prereq: As listed above and [TEAC 451P \(http://bulletin.unl.edu/courses/TEAC/451P\)](http://bulletin.unl.edu/courses/TEAC/451P) or [851P \(http://bulletin.unl.edu/courses/TEAC/851P\)](http://bulletin.unl.edu/courses/TEAC/851P) with a grade of "C+" or better. Conceptualizing the 7-12 curriculum through multimedia and active, discovery learning. [IS]R. Secondary Modern Languages Prereq: As listed above. Second-language acquisition and learning theory and their relationship to curriculum planning and development. Practice in creative language-use activities designed to build second language reading, writing,

speaking, listening, and culture skills. Development of teacher as observer, reflector, and recorder of individual student needs. [IS]V. Secondary Science Prereq: As listed above and [TEAC 451V](#) (<http://bulletin.unl.edu/courses/TEAC/451V/851V>) (<http://bulletin.unl.edu/courses/TEAC/851V>). Curricular materials, including the application of technology, as they relate to classroom instruction with diverse populations. [IS]W. Secondary Social Science Prereq: As listed above. Societal diversity and its impact on the 7-12 social science curriculum, regional and national curricular trends, and emerging theory and research in social studies education.

TEAC **The Middle Level Professional Methods**
453/853

[LINK \(http://bulletin.unl.edu/courses/TEAC/453\)](http://bulletin.unl.edu/courses/TEAC/453)

Prereqs:
Admission to the Teacher Education Program.

Development of competence in planning, teaching, classroom management and assessment. Covers the scope, content, and organization of curriculum and instructional materials. I. Art (2 cr) N. Language Arts (2 cr) P. Mathematics (2 cr) T. Reading (2 cr) V. Science (2 cr) W. Social Science (2 cr)

Credit Hours:	1-12
Max credits per semester:	12
Course Delivery:	Classroom

TEAC **Literature in Education**
454/854

[LINK \(http://bulletin.unl.edu/courses/TEAC/454\)](http://bulletin.unl.edu/courses/TEAC/454)

Comparative analyses of literature and the role of the reader as meaning maker in educational settings. A. Literary Response and Analysis (3 cr) B. Multiethnic Literature for Children and Adolescents (3 cr) E. Special Topics (3 cr)

Credit Hours:	3-9
Max credits per semester:	9
Course Format:	Lecture
Course Delivery:	Classroom

TEAC **Teaching with Technology**
480/880

[LINK \(http://bulletin.unl.edu/courses/TEAC/480\)](http://bulletin.unl.edu/courses/TEAC/480)

Survey and analysis of the application of technology to improve teaching. Research and related literature on learning, teaching and curriculum, and the critical application of technology and the development of teaching strategies. A. Survey of Instructional Technology (1-3 cr) B. Designing Instructional Technology K-12 (1-3 cr) E. Instructional Technology in Mathematics (1-3 cr) J. Instructional Technology in Language Arts (1-3 cr) K. Instructional Technology in Science (1-3 cr) L. Instructional Technology in Social Sciences (1-3 cr) M. Technology Supported Assessment and Evaluation (1-3 cr) N. Web Teaching (1-3 cr) P. Special Topics (1-3 cr)

Credit Hours:	1-3
Max credits per semester:	15
Course Delivery:	Classroom

TEAC **Instructional Applications of Computers-Practicum**
482/882

[LINK \(http://bulletin.unl.edu/courses/TEAC/482\)](http://bulletin.unl.edu/courses/TEAC/482)

Prereqs:
Permission.

A task-oriented practicum in instructional application of computer to provide an opportunity for repetition and/or demonstration of fundamental practice skills. Combines discussion and demonstration with supervised task-centered field experiences.

Credit Hours:	2-3
Course Delivery:	Classroom

TEAC **Independent Study**
495/895

[LINK \(http://bulletin.unl.edu/courses/TEAC/495\)](http://bulletin.unl.edu/courses/TEAC/495)

Credit Hours: 1-6

Course Delivery: Classroom

TEAC

496/896

Problems in Secondary Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/496\)](http://bulletin.unl.edu/courses/TEAC/496)

Prereqs:
Permission.

Opportunities for experienced teachers and administrators to develop plans, procedures, or experiments directed to the improvement of the curriculum or administration of the secondary school.

Credit Hours: 1-6

Course Delivery: Classroom

TEAC

498/898

Problems in Elementary Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/498\)](http://bulletin.unl.edu/courses/TEAC/498)

Prereqs:
Permission.

Opportunities to develop plans, procedures, experiments, and models directed to the improvement of elementary school education on an independent study basis.

Credit Hours: 2-3

Course Delivery: Classroom

TEAC

800

Inquiry into Teaching and Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800)

This course is a prerequisite for: [TEAC 888 \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Contemporary educational research from multiple theoretical perspectives.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

801

Curriculum Inquiry

[LINK \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801)

The relationship between curriculum theory and/or research to educational practices.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

803

Student Teaching Internship Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

Prereqs:
Parallel [TEAC 897 \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)

Analysis of school programs with attention to teacher certification, teacher/student rights/responsibilities, proper conduct of teachers, selected legal aspects of education, methods of communicating with parents and community members, and current issues.

A. Elementary (K-6) (1-2 cr) Parallel [TEAC 897A \(http://bulletin.unl.edu/courses/TEAC/897A\)](http://bulletin.unl.edu/courses/TEAC/897A).

B. Elementary Art (1-2 cr) Parallel [TEAC 897B \(http://bulletin.unl.edu/courses/TEAC/897B\)](http://bulletin.unl.edu/courses/TEAC/897B).

G. Elementary Foreign Language (1-2 cr) Parallel [TEAC 897G \(http://bulletin.unl.edu/courses/TEAC/897G\)](http://bulletin.unl.edu/courses/TEAC/897G).

I. Secondary Art (1-2 cr) Parallel [TEAC 897I \(http://bulletin.unl.edu/courses/TEAC/897I\)](http://bulletin.unl.edu/courses/TEAC/897I).

N. Secondary Language Arts (1-2 cr) Parallel [TEAC 897N \(http://bulletin.unl.edu/courses/TEAC/897N\)](http://bulletin.unl.edu/courses/TEAC/897N).

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

P. Secondary Mathematics (1–2 cr) Parallel [TEAC 897P](http://bulletin.unl.edu/courses/TEAC/897P)
(<http://bulletin.unl.edu/courses/TEAC/897P>).

Q. Middle School (1–2 cr) Parallel [TEAC 897Q](http://bulletin.unl.edu/courses/TEAC/897Q)
(<http://bulletin.unl.edu/courses/TEAC/897Q>).

R. Secondary Modern Language (1–2 cr) Parallel [TEAC 897R](http://bulletin.unl.edu/courses/TEAC/897R)
(<http://bulletin.unl.edu/courses/TEAC/897R>).

V. Secondary Science (1–2 cr) Parallel [TEAC 897V](http://bulletin.unl.edu/courses/TEAC/897V)
(<http://bulletin.unl.edu/courses/TEAC/897V>).

W. Secondary Social Science (1–2 cr) Parallel [TEAC 897W](http://bulletin.unl.edu/courses/TEAC/897W)
(<http://bulletin.unl.edu/courses/TEAC/897W>).

Y. Mainstreaming (1–2 cr) Parallel [TEAC 897Y](http://bulletin.unl.edu/courses/TEAC/897Y)
(<http://bulletin.unl.edu/courses/TEAC/897Y>).

Z. Multicultural (1–2 cr) Parallel [TEAC 897Z](http://bulletin.unl.edu/courses/TEAC/897Z)
(<http://bulletin.unl.edu/courses/TEAC/897Z>).

TEAC

805

Advanced Teaching Strategies

Crosslisted as *ALEC 805*, *NUTR 806*

[LINK \(http://bulletin.unl.edu/courses/TEAC/805\)](http://bulletin.unl.edu/courses/TEAC/805)

This course is a prerequisite for: [ALEC 400](http://bulletin.unl.edu/courses/ALEC/400) (<http://bulletin.unl.edu/courses/ALEC/400>)

Contemporary and innovative teaching strategies, emphasizing learner-centered instruction, suitable to teaching in college and postsecondary institutions, outreach programs public schools, and other settings. Students participate in active learning as they apply learning theory in practice, prepare and demonstrate teaching methods, and plan for instruction in discipline areas of their choice.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC

812

Improvement of Instruction in Elementary School Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/812\)](http://bulletin.unl.edu/courses/TEAC/812)

Prereqs:

12 hrs education including [TEAC 315](http://bulletin.unl.edu/courses/TEAC/315)
(<http://bulletin.unl.edu/courses/TEAC/315>) or permission; teaching experience or student teaching

Techniques, plans, and procedures for improving instruction in elementary school science. Current practices, issues, and trends; evaluation of instructional materials.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC

813J

Intercultural Communication

[LINK \(http://bulletin.unl.edu/courses/TEAC/813J\)](http://bulletin.unl.edu/courses/TEAC/813J)

Introduction to intercultural communication and the theoretical and methodological tools needed to understand the tenets and implications of intercultural communication for application in personal and professional practices. Readings will deal with misunderstandings and the impact of cultural factors on the making of meaning, as well as discrimination and the impact of unequal power relations on communication, media impact in a globalized world, language, identity and communication, and intercultural competence.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

817

Emerging Reading and Language

[LINK \(http://bulletin.unl.edu/courses/TEAC/817\)](http://bulletin.unl.edu/courses/TEAC/817)

Prereqs:

Elementary endorsement

Research, theory and practice associated with literacy development in children from birth to age 8. Language and concept development, emerging reading and writing behaviors, appropriate materials and evaluation within a holistic view teaching and learning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
822

Principles and Practices in Social Studies Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/822\)](http://bulletin.unl.edu/courses/TEAC/822)

Current issues and trends in the curriculum and teaching of social studies.
A. Special Topics (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
828

Improvement of Instruction in Industrial Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/828\)](http://bulletin.unl.edu/courses/TEAC/828)

Special contemporary curricular and teaching aspects of industrial education. Research, curriculum content, teaching strategies, and the application to the instructional setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
833

Comparative Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/833\)](http://bulletin.unl.edu/courses/TEAC/833)

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
835

Ethnic Minorities and American Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/835\)](http://bulletin.unl.edu/courses/TEAC/835)

Chronological entry of European immigrant groups into an American society during the formative years of the development of the American public school system. Record of American social and educational history is replete with examples of inter- and intra-group human conflict as each immigrant group attempted to carve out its niche in a New World setting during a period of mass migration from Europe. Historical, sociological, and psychological barriers that became inherent during a dynamic period of nation building.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
840

Culture and Schooling

[LINK \(http://bulletin.unl.edu/courses/TEAC/840\)](http://bulletin.unl.edu/courses/TEAC/840)

Description and explanation of cultural values as they relate to education.
A. Gender (1-3 cr)
B. Gender and Science (1-3 cr)
D. Special Topics (1-6 cr)
E. Rural Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
842

Objectives and Methods of Science Teaching

[LINK \(http://bulletin.unl.edu/courses/TEAC/842\)](http://bulletin.unl.edu/courses/TEAC/842)

This course is a prerequisite for: [TEAC 924 \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Development of objectives, course offerings, and organization of subject matter and methods of instruction in science courses. Current national science education curriculum trends.

A. Elementary
B. Middle School
D. Secondary and Community College
E. Special Topics (1-6 cr)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC

844**School Media Programs**[LINK \(http://bulletin.unl.edu/courses/TEAC/844\)](http://bulletin.unl.edu/courses/TEAC/844)

Role of the media specialist as a member of the instructional team.

- A. Administration (3 cr)
- B. Reference (3 cr)
- D. Cataloguing (3 cr)
- E. Selection (3 cr)
- J. Special Topics in School Media

Credit Hours:	1-3
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Campus:	
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Course Delivery:	Classroom
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TEAC

846**Studies in Middle Level Schooling**[LINK \(http://bulletin.unl.edu/courses/TEAC/846\)](http://bulletin.unl.edu/courses/TEAC/846)

Historical development, philosophy, and current literature of the middle school.

- A. Curriculum (1-3 cr, max 3)
- B. Leadership (1-3 cr, max 3)
- D. Teacher-Based Advisory (1-3 cr, max 3)
- E. Special Topics (1-3 cr, max 9)

Credit Hours:	1-9
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Max credits per degree:	9
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Campus:	
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Course Delivery:	Classroom
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TEAC

847**Principles of Business Education**[LINK \(http://bulletin.unl.edu/courses/TEAC/847\)](http://bulletin.unl.edu/courses/TEAC/847)

Principles, philosophy, historical development, and emerging role of business education in America. Current issues in business education, resource development, examination of learning theories, and needs assessment.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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TEAC

848**Introduction to Curriculum Studies**[LINK \(http://bulletin.unl.edu/courses/TEAC/848\)](http://bulletin.unl.edu/courses/TEAC/848)

Historical development and philosophy of high school curricula. Review of research on schooling, curriculum trends, and school organizational structures.

- A. Elementary Schools
- B. Middle Schools
- D. Secondary Schools
- E. Special Topics in Curriculum (1-6 cr)

Credit Hours:	1-3
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Campus:	
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Course Delivery:	Classroom
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TEAC

849**Studies in Assessment and Leadership for Learning**[LINK \(http://bulletin.unl.edu/courses/TEAC/849\)](http://bulletin.unl.edu/courses/TEAC/849)

Preparation for assessing K-12 learners and leading K-12 Teacher Learning Communities.

- A. Classroom Assessment (3 cr)
- B. Large-scale Assessment (3 cr)
- E. Leadership in Assessment (3 cr)
- J. Leading Classroom Assessment (3 cr)
- K. Special Topics in Assessment and Leadership for Learning (3 or 6 cr, max 6)

Credit Hours:	6
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Max credits per degree:	18
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Course Format:	Lecture
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Campus:	
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Course Delivery:	Classroom
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TEAC

857B**Nebraska Writing Project**Crosslisted as *ENGL 857B*[LINK \(http://bulletin.unl.edu/courses/TEAC/857B\)](http://bulletin.unl.edu/courses/TEAC/857B)

Topics in writing instruction, explored via the National Writing Project Institute model, for K-12 and college teachers of writing in all curricular

Credit Hours:	1-3
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Course Format:	Lecture
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areas.

Campus:

Course Delivery: Classroom

TEAC

858

Utilization of Modern Technology

[LINK \(http://bulletin.unl.edu/courses/TEAC/858\)](http://bulletin.unl.edu/courses/TEAC/858)

Strategies of incorporating modern technology into the professional workplace; provides a thorough understanding of the operation and evaluation of integrating technology into the curriculum.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

859

Instructional Message Design

[LINK \(http://bulletin.unl.edu/courses/TEAC/859\)](http://bulletin.unl.edu/courses/TEAC/859)

Using selected principles from behavior science (perception, memory, attitudes, concepts), students analyze and design instructional messages. Systematic process for instructional development.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

860

Production and Utilization of Instructional Materials

[LINK \(http://bulletin.unl.edu/courses/TEAC/860\)](http://bulletin.unl.edu/courses/TEAC/860)

This course is meant to be taken after and in sequence with TEAC *859. Unique characteristics and contributions of selected instructional media and technologies to the teaching/learning and communication processes. Students produce materials for specific instructional messages.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

861

Education for a Pluralistic Society: Foundation and Issues

[LINK \(http://bulletin.unl.edu/courses/TEAC/861\)](http://bulletin.unl.edu/courses/TEAC/861)

Educational practices and policies for people from historically oppressed groups in the United States Foundation of multicultural education. Discussion of contemporary educational issues within the context of multicultural and cultural diversity. Critique of curricular materials and resources promoting a multicultural perspective.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

881

Music in Early Childhood Education

Crosslisted as *MUED 881*

[LINK \(http://bulletin.unl.edu/courses/TEAC/881\)](http://bulletin.unl.edu/courses/TEAC/881)

Prereqs:

[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or [370 \(http://bulletin.unl.edu/courses/MUED/370\)](http://bulletin.unl.edu/courses/MUED/370) or permission

Prepares the teacher of the young child (3–8 years) in the musical skills, methodology, and materials needed to carry out a successful program of music in the public and private schools, the nursery schools, and day-care centers.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

887

Effecting High School Improvement

[LINK \(http://bulletin.unl.edu/courses/TEAC/887\)](http://bulletin.unl.edu/courses/TEAC/887)

The relationships and interactions among the high school student, a teacher, and the curriculum to the issues of school district, higher education, philanthropy, state department of education, and federal involvement in high school improvement efforts. The imperative and challenges for improving high schooling for all students.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

TEAC
888

Teacher as Scholarly Practitioner

[LINK \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Prereqs:
[TEAC 800 \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800) and [801 \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801), or permission

Seminar on the principles of practitioner inquiry and development of a proposal for an inquiry project.
A. Special Topics in Inquiry

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

TEAC
889

Masters Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/889\)](http://bulletin.unl.edu/courses/TEAC/889)

Prereqs:
Permission

Working with a faculty mentor on either an individual or small-group basis, the student plans, conducts, and reports a summative work project.

Credit Hours:	1-3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/890\)](http://bulletin.unl.edu/courses/TEAC/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC
893

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/893\)](http://bulletin.unl.edu/courses/TEAC/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC
894

Professional Practicum Experiences

[LINK \(http://bulletin.unl.edu/courses/TEAC/894\)](http://bulletin.unl.edu/courses/TEAC/894)

Prereqs:
Admission to Teacher Education Program

TEAC *894 does not count toward the MA or MEd degree. P/N only. Guided observations and/or clinical experiences in schools and/or agencies offering programs for children/youth.

- A. Elementary (K-6) (1-10 cr)
- B. Elementary Art (1-10 cr)
- E. English as a Second Language (1-10 cr)
- G. Elementary Foreign Language (1-10 cr)
- I. Secondary Art (1-10 cr)
- J. Business Education (1-10 cr)
- L. Information Technology (1-10 cr, max 10)
- M. Industrial Education (1-10 cr)
- N. Secondary Language Arts (1-10 cr)
- O. Marketing Education (1-10 cr)
- P. Secondary Mathematics (1-10 cr)
- Q. Middle School (1-10 cr)
- R. Secondary Modern Language (1-10 cr)
- T. Reading (1-10 cr)
- V. Secondary Science (1-10 cr)
- W. Secondary Social Science (1-10 cr)
- Y. Mainstreaming (1-10 cr)

Credit Hours:	1-10
Max credits per degree:	10
Course Format:	Field
Campus:	
Course Delivery:	Classroom

TEAC

897**Student Teaching Internship**[LINK \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)**Prereqs:****Admission by application only**This course is a prerequisite for: [TEAC 803 \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

(See "Admission to Student Teaching" in the UNL Undergraduate Bulletin.)

This course will not count towards the MA or MEd degree. P/N only.

Supervised teaching experience in schools.

- A. Elementary (K-6)
- B. Elementary Art
- E. English as a Second Language
- D. Elementary Physical Education
- G. Elementary Foreign Language
- I. Secondary Art
- J. Business Education
- K. Health
- M. Industrial Education
- N. Secondary Language Arts
- P. Secondary Mathematics
- Q. Middle School
- R. Secondary Modern Language
- U. Secondary Physical Education
- V. Secondary Science
- W. Secondary Social Science
- Y. Mainstreaming
- Z. Multicultural

Credit Hours: 1-10**Course Delivery:** Classroom

TEAC

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/TEAC/899\)](http://bulletin.unl.edu/courses/TEAC/899)**Prereqs:****Admission to masters degree program and permission of major adviser****Credit Hours:** 6-10**Campus:****Course Delivery:** Classroom

TEAC

901**Supervision and Administration in Vocational Education**[LINK \(http://bulletin.unl.edu/courses/TEAC/901\)](http://bulletin.unl.edu/courses/TEAC/901)For course description, see [ALEC 901 \(http://bulletin.unl.edu/courses/ALEC/901\)](http://bulletin.unl.edu/courses/ALEC/901).**Credit Hours:** 1-3**Course Format:** Lecture**Campus:****Course Delivery:** Classroom

TEAC

902**Colloquium in Educational Policy and Practice**[LINK \(http://bulletin.unl.edu/courses/TEAC/902\)](http://bulletin.unl.edu/courses/TEAC/902)

Educational policy and practice and their interconnection.

- A. Special Topics in Educational Policy and Practice (1- 3 cr)

Credit Hours: 1-3**Max credits per degree:** 6**Campus:****Course Delivery:** Classroom

TEAC

903**Current Trends in the Education of Young Children**[LINK \(http://bulletin.unl.edu/courses/TEAC/903\)](http://bulletin.unl.edu/courses/TEAC/903)

Participation in special problems of teachers in service. Guidance, evaluations, research.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

TEAC
905 **Practicum in Postsecondary Teaching**

Crosslisted as *ALEC 905*

[LINK \(http://bulletin.unl.edu/courses/TEAC/905\)](http://bulletin.unl.edu/courses/TEAC/905)

Prereqs:
ALEC *805 or permission

Work with a faculty mentor in a discipline of choice and an instructional supervisor to prepare instruction and teach students in a postsecondary setting. Practicum students are assisted in arranging for the practicum and are provided consultation and feedback during the practicum. Lesson planning and reflective papers are part of the practicum experience.

Credit Hours:	1-3
Course Format:	Lab
Campus:	
Course Delivery:	Classroom

TEAC
907 **Seminar in Elementary School Mathematics**

[LINK \(http://bulletin.unl.edu/courses/TEAC/907\)](http://bulletin.unl.edu/courses/TEAC/907)

Prereqs:
TEAC 808 (<http://bulletin.unl.edu/courses/TEAC/808>) or equivalent

Theories, literature, and research procedures relative to elementary mathematics education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
908 **Seminar in Teacher Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/908\)](http://bulletin.unl.edu/courses/TEAC/908)

Overview of literature and scholarship in teacher education.
A. Supervision of Pre-service Teachers (1-3 cr)
B. Teacher Development (3 cr)
D. Initial Teacher Preparation (1-3 cr)
E. Special Topics in Teacher Education (1-3 cr)

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
911 **Seminar in Elementary School Science**

[LINK \(http://bulletin.unl.edu/courses/TEAC/911\)](http://bulletin.unl.edu/courses/TEAC/911)

Prereqs:
12 hrs laboratory science including courses in both physical and biological fields; TEAC 403 (<http://bulletin.unl.edu/courses/TEAC/403>) or 804 (<http://bulletin.unl.edu/courses/TEAC/804>) or equivalent; teaching experience

Literature which deals with research and experimentation in science for the elementary school. Aspects of the teaching and supervision of elementary school science that require investigation and research.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
920 **Seminar in Curriculum and Teaching of Career and Technical Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/920\)](http://bulletin.unl.edu/courses/TEAC/920)

Current research and theory within the curriculum and teaching of career and technical education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
Seminar in Literacy Studies

[LINK \(http://bulletin.unl.edu/courses/TEAC/921\)](http://bulletin.unl.edu/courses/TEAC/921)

921

Research in literacy and schooling.
A. Curriculum and Teaching (3 cr)
B. Special Topics (1-3 cr)
D. Language, Culture, and Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC 922

Seminar in the Learning and Teaching of Foreign Languages

[LINK \(http://bulletin.unl.edu/courses/TEAC/922\)](http://bulletin.unl.edu/courses/TEAC/922)

Prereqs:
Undergraduate teaching major in a foreign language and teaching experience in a foreign language

Critical review and evaluation of current literature, research and theory.
A. Reading in the Foreign Language Classroom (1-3 cr, max 3)
B. Writing in the Foreign Language Classroom (1-3 cr, max 3)
D. Listening in the Foreign Language Classroom (1-3 cr, max 3)
E. Speaking in the Foreign Language Classroom (1-3 cr, max 3)
J. Planning in the Foreign Language Classroom (1-3 cr, max 3)
K. Technology-Enhanced Language Instruction (1-3 cr, max 3)

Credit Hours:	1-21
Max credits per degree:	21
Campus:	
Course Delivery:	Classroom

TEAC 923

Seminar in the Curriculum and Teaching of Secondary School Mathematics

[LINK \(http://bulletin.unl.edu/courses/TEAC/923\)](http://bulletin.unl.edu/courses/TEAC/923)

Prereqs:
Undergraduate teaching major and teaching experience in mathematics

Critical evaluation of current literature, yearbooks, research, and experiments in the curriculum and teaching of mathematics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC 924

Seminar in the Curriculum and Teaching of Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Prereqs:
Undergraduate teaching major and teaching experience in science, and [TEAC 842 \(http://bulletin.unl.edu/courses/TEAC/842\)](http://bulletin.unl.edu/courses/TEAC/842) and [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Exploration of current literature, yearbooks, research, and experiments in the curriculum and teaching of science.
A. Elementary
B. Middle School
D. Secondary
E. Inclusive Science Teaching
J. Special Topics (1-6 cr)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC 925

Seminar in the Curriculum and Teaching of Social Sciences

[LINK \(http://bulletin.unl.edu/courses/TEAC/925\)](http://bulletin.unl.edu/courses/TEAC/925)

Current research and literature in social sciences education.
A. Elementary (1-3 cr)
B. Middle School (1-3 cr)
D. Secondary (1-3 cr)
E. Great Plains Studies (1-3 cr)
G. Special Topics in Social Sciences (1-3 cr)

Credit Hours:	3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
929

Seminar in Individualized Instruction for Gifted, Talented, and Creative Students [LINK \(http://bulletin.unl.edu/courses/TEAC/929\)](http://bulletin.unl.edu/courses/TEAC/929)

Nature of curricular and instructional programs and practices for gifted, talented, and creative students in elementary and secondary schools. Range of learner outcomes, identification of instructional principles, personalizing instruction for this group of learners.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
930

Sociological/Anthropological Research Methods in Education [LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Crosslisted as *EDPS 930, CYAF 930, NUTR 930*

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1–3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1–3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1–3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1–3 cr, max 3)
- J. Hermeneutic Traditions in Education (1–3 cr, max 3)
- K. Quantitative Research Traditions in Education (1–3 cr, max 3)

Credit Hours:	1–3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
931

Research in the History of Education [LINK \(http://bulletin.unl.edu/courses/TEAC/931\)](http://bulletin.unl.edu/courses/TEAC/931)

Historical research methods in education culminating in the research and writing of a historical article as publication report.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
932

Contract Studies in International Education [LINK \(http://bulletin.unl.edu/courses/TEAC/932\)](http://bulletin.unl.edu/courses/TEAC/932)

Prereqs:
Permission

Student proposed course of studies in international education: may include field experiences, individual/group research, participation in mini-seminars, etc.

Credit Hours:	1–6
Campus:	
Course Delivery:	Classroom

TEAC
936

Seminar in College Teaching [LINK \(http://bulletin.unl.edu/courses/TEAC/936\)](http://bulletin.unl.edu/courses/TEAC/936)

Overview of teaching in post-secondary settings.

Credit Hours:	1–3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

TEAC
937

Philosophy of Science and Educational Research [LINK \(http://bulletin.unl.edu/courses/TEAC/937\)](http://bulletin.unl.edu/courses/TEAC/937)

Major themes in philosophy of science and relates these to conceptions of research on human beings and social institutions, particularly as this is applied to schooling. Students consider such fundamental issues as whether

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

educational research is a science, the form and purpose of educational research, and what research might imply for practice.

TEAC
944

Seminar in Curriculum Studies

[LINK \(http://bulletin.unl.edu/courses/TEAC/944\)](http://bulletin.unl.edu/courses/TEAC/944)

Critical examination of issues in curriculum development with an analysis of research and literature on the subject.

- A. Curriculum as Aesthetic Text (1–3 cr)
- B. Special Topics in Curriculum (1–3 cr)
- D. Curriculum Evaluation (1–3 cr)
- E. Curriculum as Spatial Text (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
946

Instructional Improvement and Decision Making

[LINK \(http://bulletin.unl.edu/courses/TEAC/946\)](http://bulletin.unl.edu/courses/TEAC/946)

Study and application of teaching models and techniques based on research, theory, and exemplary practice.

- A. Instructional Assessment
- B. Special Topics in Instruction

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

TEAC
949

Seminar in Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/949\)](http://bulletin.unl.edu/courses/TEAC/949)

Critical analysis of literature and research on teaching, learning, and schooling.

- A. Special Topics in Education (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
950

Contextual Research in English/Language Arts

[LINK \(http://bulletin.unl.edu/courses/TEAC/950\)](http://bulletin.unl.edu/courses/TEAC/950)

Uses of qualitative research in English language arts; interpreting, planning, conducting, and reporting contextual research results.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
951

Seminar in Reading Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/951\)](http://bulletin.unl.edu/courses/TEAC/951)

Scholarship in reading education, including the nature, results and implications of past and present research and non-research and contributions of historically significant scholars in the field of reading.

- A. Research in Reading Education (3 cr)
- B. Special Topics (1–6 cr, 6 max)

Credit Hours:	3–9
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
952

Language and Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/952\)](http://bulletin.unl.edu/courses/TEAC/952)

Role that language plays in empowering and constraining children as they attempt to make sense of their world. Consideration of application of language scholarship for general instruction.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
953

Seminar on Writing in the Curriculum

[LINK \(http://bulletin.unl.edu/courses/TEAC/953\)](http://bulletin.unl.edu/courses/TEAC/953)

Writing development, writing instruction, and the use of writing in the content areas. Consideration of application of scholarship in writing for general learning and instruction.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
957B

Nebraska Writing Project

Crosslisted as *ENGL 957B*

[LINK \(http://bulletin.unl.edu/courses/TEAC/957B\)](http://bulletin.unl.edu/courses/TEAC/957B)

Summer institute for K-12 and college teachers of writing in all curricular areas, taught on the National Writing Project model.

Credit Hours:	6
Course Format:	Lecture 6
Campus:	
Course Delivery:	Classroom

TEAC
959

Portfolio in Instructional Technology Competencies

[LINK \(http://bulletin.unl.edu/courses/TEAC/959\)](http://bulletin.unl.edu/courses/TEAC/959)

Prereqs:
Permission

No more than six credits of [TEAC 959](http://bulletin.unl.edu/courses/TEAC/959) (<http://bulletin.unl.edu/courses/TEAC/959>) may be counted towards a masters degree. Portfolio components represent a significant contribution to the solution of an instructional problem and reflect broadly the major competencies of instructional technology: problem definition, learner analysis, media selection and message design, production, and evaluation.

Credit Hours:	1-12
Campus:	
Course Delivery:	Classroom

TEAC
960

Topical Seminar in Instructional Technology

[LINK \(http://bulletin.unl.edu/courses/TEAC/960\)](http://bulletin.unl.edu/courses/TEAC/960)

Prereqs:
Permission

Critical analysis of research in a delimited problem area within instructional technology (e.g., ITV, CAI, videodisc, simulations, programmed instruction). Empirically testable research questions related to the topic.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC
961

Current Approaches to Elementary Music Education

Crosslisted as *MUED 961*

[LINK \(http://bulletin.unl.edu/courses/TEAC/961\)](http://bulletin.unl.edu/courses/TEAC/961)

Prereqs:
Teaching experience

Implementation of current programs, materials, and techniques for the improvement of music instruction in the elementary school.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/990\)](http://bulletin.unl.edu/courses/TEAC/990)

Refer to *Workshop Seminars in Education* under the "Education" section of this bulletin.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/993\)](http://bulletin.unl.edu/courses/TEAC/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/995\)](http://bulletin.unl.edu/courses/TEAC/995)

Prereqs:
Permission

Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

TEAC
996

Individual Research Projects

[LINK \(http://bulletin.unl.edu/courses/TEAC/996\)](http://bulletin.unl.edu/courses/TEAC/996)

Prereqs:
Permission

Individual research under faculty supervision.

Credit Hours:	1-10
Max credits per degree:	10
Campus:	
Course Delivery:	Classroom

TEAC
997

Minor Research

[LINK \(http://bulletin.unl.edu/courses/TEAC/997\)](http://bulletin.unl.edu/courses/TEAC/997)

Individual research on approved topics in Elementary Education.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

TEAC
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/TEAC/999\)](http://bulletin.unl.edu/courses/TEAC/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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Description

The College of Education and Human Sciences (CEHS) offers graduate degree programs through its seven CEHS departments: Child, Youth and Family Studies; Educational Administration; Educational Psychology; Nutrition and Health Sciences; Special Education and Communication Disorders; Teaching, Learning and Teacher Education; and Textiles, Clothing and Design. In addition to graduate degree programs, CEHS also offers graduate, non-degree programs leading to certification in areas such as teaching, curriculum leadership and school administration.

Workshop Seminars in Education

The purpose of the Workshop Seminars (890, 893, 990 or 993) is to give students in the departments of education an opportunity to work singly or in groups on practical educational problems which are of special focused interest but which are not included in other professional education courses. Workshops are offered on a variety of topics by College faculty and selected educational consultants. As a rule, the individual or group is expected to produce some kind of a product as a part of the workshop experience. The amount of credit in a Workshop Seminar at either the 800 or 900 level may not exceed 12 semester hours in meeting requirements for the masters degree. Upon approval, a maximum of 12 additional semester hours may be included in the program for the doctoral degree.

CEHS offers three masters degrees in nine majors and the education specialist degree in three majors. The MEd is offered only in Educational Administration; Special Education and Communication Disorders; and Teaching, Learning, and Teacher Education. The following requirements for the MEd are College requirements. Departmental requirements may exceed these. In work for the master of education degree, at least 6 semester hours selected from College of Education and Human Sciences courses outside the major must be included and supporting work may be substituted for the minor(s). For information on masters and specialist degree programs, consult the relevant department's listing in this bulletin.

CEHS offers two doctoral degrees, both the EdD and the PhD, under three majors: educational studies, human sciences, and psychological studies in education. In addition, CEHS participates in two additional doctoral majors.

The Educational Studies major includes six specializations. Instructional Technology; Internet-based Education; and Teaching, Curriculum and Learning are hosted by the Department of Teaching, Learning and Teacher Education. Special Education is sponsored by the Department of Special Education and Communication Disorders. The Department of Educational Administration hosts Educational Leadership and Higher Education and co-hosts, with Architecture, Architecture Education.

The Human Sciences major includes five specializations. Communication Disorders is housed in the Department of Special Education and Communication Disorders; Child, Youth and Family Studies is sponsored by the Department of Child, Youth and Family Studies; Nutrition and Health Sciences is hosted by the Department of Nutrition and Health Sciences; Textiles, Clothing and Design is based in the Department of Textiles, Clothing and Design; and Leadership Studies is housed in the Department of Agricultural Leadership, Education and Communication.

The Psychological Studies in Education major includes four specializations, all hosted by the Department of Educational Psychology: Cognition, Learning and Development; Counseling Psychology; Qualitative and Quantitative Methodologies in Education; and School Psychology.

In addition, the Department of Educational Administration--in cooperation with UNO's Department of Educational Administration--offers a major in Educational Administration, and the Department of Nutrition and Health Sciences participates in the Interdepartmental Nutrition major.

Specific program and application information is available under each department's listing in this bulletin. Up-to-date information is also available on-line at cehs.unl.edu. Inquiries may be directed to cehsgrad@unl.edu or to (402) 472-5333.

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Educational Administration

For a brief description of the program, application requirements and contact information, view the [graduate program summary](#).

(<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Interim Department Chair: Brent D. Cejda, Ph.D.

Graduate Committee Chair: Jody Isernhagen, Ph.D.

The Department of Educational Administration offers programs leading to masters (MEd, MA) and doctoral degrees (PhD, EdD) as well as certificates of specialization.

Masters degree programs

The Masters Degree program meets the academic requirements for either a Master of Arts (MA) or a Master of Education (MEd) degree with a major in Educational Administration. The MA degree requires the completion of a thesis. Students enrolled in the Masters Degree program are interested in both K-12 and higher education administration.

The majority of students interested in K-12 education intend to satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, at either the standard or professional level, with administrative endorsements that will qualify them for employment as administrators in K-12 school systems. Students interested in higher education administration have the opportunity to pursue specializations in student affairs or human resource development or complete a general higher education program.

Doctoral degree programs

There are two approved doctoral areas of emphasis: 1) Educational Leadership and Higher Education (ELHE), which leads to either the PhD or EdD degree in education studies, and 2) a jointly operated program with UNO (EDJT) which leads to the EdD in educational administration. All students pursuing a doctorate degree are required to complete a dissertation and students pursuing a PhD are required to complete an on-campus residency.

Certificates of Specialization

In addition to masters and doctoral degrees, the department offers four certificates of specialization.

Individuals who already have a Masters Degree in education can pursue a certificate endorsement program that will satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, a requirement for employment as an administrator in a K-12 school system.

The Certificate of Specialization in Educational Administration is designed to meet the requirements of a Nebraska Professional and Administrative Supervisory Certificate with an endorsement of superintendent.

The School Improvement Certificate Program that focuses on the K-12 school improvement process. The School Improvement Program benefits you--the teacher, by preparing you as a school leader while gaining the specialist credential, allowing you to increase your skills and build career opportunities.

The Community College Leadership Certificate is designed for those already employed in community colleges who aspire to administrative appointments as well as those who are in leadership positions and need or desire additional preparation.

Course Delivery

The Department of Educational Administration has been a campus leader in reaching out to students who need or wish to study from off campus and offers most of the course work for the MEd and EdD online. The primary emphasis in all courses is on the principles, processes, and practical skills necessary for the leadership, organization, and administration of educational institutions.

Further information about graduate degree programs and about certification programs may be located on the department's Website, located at cehs.unl.edu/edad.

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Educational Psychology

For a brief description of the program, application requirements and contact information, view the [graduate program summary](#).

(<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Department Chair: R. J. De Ayala, Ph.D.

Graduate Committee Chair: Edward Daly, Ph.D.

Website: edpsyc.unl.edu

The Department of Educational Psychology consists of four program areas: counseling psychology; cognition, learning and development (CLD); quantitative, qualitative, and psychometric methods (QQPM); and school psychology.

Masters Degree

The master of arts (MA) degree may be obtained with a specialization in cognition, learning and development (CLD program), or with a concentration in counseling psychology, or research and psychometric methods (QQPM program). Individuals in the CLD program may select the general CLD specialization or an option in health behavior or in college learning center. Endorsement programs are offered in secondary school counseling, and elementary school counseling.

Educational Specialist Degree

The Department of Educational Psychology offers the educational specialist degree (EdS) (67–72 hours beyond the BA) in school psychology. The EdS in school psychology leads to certification as a school psychologist.

Doctoral Degrees

The PhD degree is available to students wishing careers in cognition, learning and development, research methods, measurement, counseling psychology, and school psychology through the field of educational specialization called psychological studies in education. For further information, see and contact the chair of the Department's Graduate Committee.

Counseling and School Psychology Clinic

The Counseling and School Psychology Clinic in the Department of Educational Psychology serves the dual function of (1) providing training for qualified graduate students and of (2) providing services to individuals, public schools, families, and community agencies. Clinic therapists assist adults, families, children and youth experiencing academic, psychological, and behavioral concerns. In addition to therapeutic services, clinic therapists provide psychological testing and consultation for school related concerns. Therapeutic services are also provided for educational and vocational concerns. Service is provided by appointment.

Buros Center for Testing

The Buros Center for Testing comprises two separate institutes dedicated to improving the quality of contemporary assessment practices. Founded by Oscar K. Buros in 1937, the Buros Institute of Mental Measurements (BIMM) publishes critical evaluations of commercially available tests. In addition to its international reputation for providing test reviews, BIMM maintains the largest collection of tests and testing materials in the world. The Buros Institute for Assessment Consultation and Outreach (BIACO) was established in 1994 to expand the range of available assessment services to proprietary testing programs that include credentialing, state educational assessment, employment testing, and assessment literacy. Together, the two Buros Institutes advance the goals of the Department of Educational Psychology and the College of Education and Human Sciences by providing consultation and instructional services to graduate programs, by training and supporting graduate students in current assessment practices, and by serving assessment outreach needs both within and outside the state of Nebraska.

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Special Education and Communication Disorders

For a brief description of the program, application requirements and contact information, view the [graduate program summary](#).

(<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Department Chair: Sherri Jones, Ph.D.

Graduate Committee Chair: Karen Hux, Ph.D.

The Department of Special Education and Communication Disorders offers graduate programs leading to the master of science degree in speech–language pathology and the master of arts and master of education degrees in special education. The department administers a PhD in human sciences with a specialization in communication disorders and the PhD or EdD in educational studies with a specialization in special education. The department also offers the professional doctor of audiology (AuD) degree in audiology and a combined AuD/PhD Program. For more information on doctoral programs in education call (402) 472–2141 or visit our website at www.unl.edu/barkley.

The masters degree program in speech–language pathology and the AuD program in audiology are accredited by the Council on Academic Accreditation in Audiology/Speech–Language Pathology.

For more information regarding graduate and professional programs offered by the Department of Special Education and Communication Disorders, please call (402) 472–2141 or visit our website at www.unl.edu/barkley.

Masters Degree Programs. Students seeking admission into a masters program should: 1) apply on–line to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the web site at www.unl.edu/barkley or by emailing the Graduate Secretary at special@unl.edu. Three letters of recommendation, preferably from former college instructors, should be submitted to the departmental Graduate Governance Committee Chair along with the departmental application. Each applicant should also arrange to have a current academic transcript and scores for the General Test of the Graduate Record Examination submitted to the Graduate Studies Office at the University of Nebraska–Lincoln. Early submission of the scores is important because the application file cannot be given consideration until the file is complete.

For a master of science degree in speech–language pathology, completion of an appropriate undergraduate or pre–professional program is required for full graduate standing. Students with strong potential but without an academic background in the major may be admitted on a provisional basis until deficiencies have been met. Completion of the masters degree requires a minimum of 48 hours of approved graduate work, including appropriate clinical practicum experiences for those seeking certification/licensure. The application deadline for fall admission into the M.S. program in Speech–Language Pathology is January 15.

Teacher Certification (licensure) and the Masters Degree. Masters degrees may be obtained with teaching certificate endorsements for special education and speech–language pathology. Candidates must qualify for a Nebraska Teaching Certificate (see the Undergraduate Bulletin) for employment in the public schools.

Distance Education. The Department has several special education masters degrees, an educational specialist degree, and/or teaching endorsement programs that are available in part or fully through distance education. These include Early Childhood Special Education, Deaf and Hard of Hearing, Mild/Moderate Disabilities, Visual Impairments, Autism, Severe Disabilities, and Supervisor of Special Education (joint with Educational Administration) programs. Distance courses are delivered via the Internet with Blackboard and/or Breeze software. Some distance courses may also require some weekend meetings, telephone or Breeze connections to the on–campus course section, and may have scheduled participation requirements. Field experience and practicum courses can be arranged in or near local communities but may require special fees. Where required courses are not currently available via distance delivery, an equivalent course (either on–campus or at a distance) from another institution can be substituted with the approval of the advisor or may be taken on the UNL campus during the summer. See the department website for information about computer requirements for distance on–line courses and distance course availability.

Educational Specialist (EdS) Degree. This program in special education provides opportunity for practitioners in the field to upgrade their skills and/or develop leadership skills as a special educator in a particular area of specialization. Two years successful professional experience as a special educator is a minimum requirement for admission. A minimum of 66 credit hours past the bachelors degree is required, with at least 24 credits to be taken after admission to UNL's EdS program. These include at least 40 hours of core content courses, 6 credits of electives or practica, and 3 credits of research. Relevant coursework completed as part of a prior masters degree can be used toward this degree. The program also requires a written comprehensive examination. Degree requirements can be used for additional teaching endorsements. Other relevant information and the application form can be found online at: www.unl.edu/barkley/sped/eds.shtml.

Doctor of Audiology (AuD) Degree. The Department of Special Education and Communication Disorders offers a professional audiology degree, the Doctor of Audiology (AuD) degree. The AuD program is a four–year course of study post B.A. or B.S. designed to provide students with academic and clinical practicum experiences that will meet or exceed the requirements of the American Speech–Language–Hearing Association (ASHA) for the Certificate of Clinical Competence in Audiology (CCC–AUD) as well as licensure requirements in most states.

Students seeking admission to the AuD program should download the application from www.unl.edu/barkley. Three letters of recommendation, preferably from former college instructors, should be submitted to the AuD program coordinator along with the departmental application. Students **do not** apply to the Office of

Graduate Studies and submission of the Graduate Record Examination is not required for admission. Students should contact the Graduate Support Staff at special@unl.edu for further application instructions.

PhD/EdD Degree Programs. Students planning to work toward PhD or EdD degrees will follow essentially the same procedures for admission as described above under the masters degree programs. Students seeking admission into one of these programs should: 1) apply online to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the website at www.unl.edu/barkley or by emailing the Graduate Support Staff at special@unl.edu. Prospective students should submit three letters of recommendation along with the department application, a copy of their masters thesis and other relevant publications (if the student completed a thesis or has published) to the departmental Graduate Committee Chair. A current academic transcript and scores for the General Test of the Graduate Record Examination need to accompany the application when it is submitted to the Graduate Studies Office. Initial review of all applications is made within the Department of Special Education and Communication Disorders where consideration is given to whether an applicant meets the qualifications for entrance into the program and whether a student's interests are in accord with the type of education and direction the department faculty can provide. Final review of an application is made by the appropriate doctoral field graduate committee in special education or communications disorders.

Teaching, Learning and Teacher Education

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation). (<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

Interim Department Chair: L. James Walter, Ph.D.

Graduate Committee Chair: Kathleen Wilson, Ph.D.

The Department of Teaching, Learning and Teacher Education (TLTE) provides masters, specialist and doctoral degree courses and programs for teachers, administrators, and other educational leaders and practitioners with a focus on scholarship and practice in curriculum and instruction in schools and non-school educational settings. Graduate endorsements are also offered in Reading Specialist K-12 and ESL.

Masters Degrees.

The aim of the TLTE masters program is to help educators build on their own experience, achieve a broad and deep understanding of educational practice, develop a professional identity, and engage in informed conversations about important teaching and learning issues towards making wise judgments regarding the many complex issues educators face. All candidates must complete a program which conforms to the requirements listed on the [TLTE masters program](http://cehs.unl.edu/tlte/graduate/masters) (<http://cehs.unl.edu/tlte/graduate/masters>) web page. There are two masters degrees available in TLTE: the MA and MEd. Both degree programs offer a good deal of flexibility to enable the student--in concert with a faculty adviser--to develop a course of study that meets the student's needs and interests.

If you are interested in earning teacher certification at the elementary level in combination with a master degree, a 14 month full time program (MAet) is available. If instead you see yourself teaching at the middle school or high school level with a specialization in science or mathematics, read about our newest 14 month full time programs (MAmt and MAst) where you can qualify for teacher certification and earn a Master of Arts degree. A limited number of fellowships are available with the MAst and MAmt programs.

Educational Specialist (EdS) Degree.

This program in curriculum and instruction provides an opportunity for practitioners in the field to upgrade their professional skills. Two years of successful professional experiences is a minimum requirement for admission. Sixty-six hours beyond the bachelors degree, research competence, practicum experiences, and a written comprehensive examination are basic requirements for the program. It is recommended that you contact the department Graduate Chair before applying.

Doctoral Programs.

The EdD and PhD degrees are available under the major heading Educational Studies refer to the web page [doctoral programs in education](http://cehs.unl.edu/tlte/graduate/doctoral.shtml). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml>) The EdD is recommended for those whose primary interest is in the application of theory and knowledge to improve educational practice. The PhD is designed for students seeking to conduct research in order to generate new knowledge or reform educational theory. The Department of Teaching, Learning and Teacher Education administers three doctoral-level specializations, available for both the EdD and PhD in Educational Studies. Teaching, Curriculum and Learning focuses on teaching and learning processes; Instructional Technology focuses on using technology as a learning tool in various educational settings; and Internet-based Education focuses on using the Internet as a platform for teaching and learning. The most current information on these specializations is kept up-to-date on the web page for [TLTE doctoral programs](http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl>)

For additional information, see or of this bulletin. The Graduate Record Examination (GRE) is required for admission to the doctoral programs and foreign students must also submit a TOEFL score.

Faculty

Educational Administration

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Educational Psychology

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Special Education and Communication Disorders

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders). (<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Teaching, Learning and Teacher Education

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation). (<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

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Education

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Courses for EDUC (EDUC)

SPED **892** **Special Topics in Education** [LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)
Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; **EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

Courses for CEHS (CEHS)

CEHS **467/867** **International Cultures Experience in the Local Community** [LINK \(http://bulletin.unl.edu/courses/CEHS/467\)](http://bulletin.unl.edu/courses/CEHS/467)

*Lecture and discussion will be required as part of the field discussion.
Field hours will be assigned at the rate of three hours per week.*

An international cultural experience in the local community by providing field-based learning experiences in community centers, schools, and human services agencies in the local community. The course will study immigrant families in the U.S. through observing and participating in community activities and through readings, discussions, and reflective journaling that integrate lessons from the field with theory and research.

Credit Hours:	3
Course Format:	Field 3
Course Delivery:	Classroom, Web

CEHS **494/894** **International Experience in Communities, Schools, and Families** [LINK \(http://bulletin.unl.edu/courses/CEHS/494\)](http://bulletin.unl.edu/courses/CEHS/494)

*Lecture and discussion will be required as part of the field experience.
Field hours will be assigned at the rate of two hours per week per student credit hour.*

Instructor-guided experiences of a culture in another nation in order to critically examine individual and cross-cultural differences in values, lifestyles, education, history and culture of international families, schools, and communities.

Credit Hours:	1-6
Max credits per semester:	3
Max credits per degree:	6
Course Format:	Field 2
Course Delivery:	Classroom

Courses for EDAD (EDAD)

EDAD **421/821** **Foundations of Human Resource Development** [LINK \(http://bulletin.unl.edu/courses/EDAD/421\)](http://bulletin.unl.edu/courses/EDAD/421)

Lays the foundation for further study of Human Resource Development (HRD) by examining the knowledge of HRD professionals, the roles they play, and the organizational settings in which HRD occurs. The design and development of education and training programs, how change occurs in organizations, how career development can optimize the match between individual and organizational goals and needs, and how to improve performance in organizations by analyzing performance opportunities and designing employee training to address these opportunities.

Credit Hours:	3
Course Delivery:	Classroom

EDAD **Instructional Design in Human Resource Development** [LINK \(http://bulletin.unl.edu/courses/EDAD/422\)](http://bulletin.unl.edu/courses/EDAD/422)

422/822

Examines the role of instruction for enhancing human learning and performance in organizations. The analysis of performance problems/opportunities and design of interventions for learning and performance improvement. The essential components of instruction, selecting instructional methods and media to achieve program objectives, the transfer of learning, and evaluating the effectiveness of instruction. The performance enhancing potential of systematically linking needs analysis, instructional design, and program evaluation.

Credit Hours:	3
Course Delivery:	Classroom

EDAD

801

Cross-Cultural Leadership Studies

[LINK \(http://bulletin.unl.edu/courses/EDAD/801\)](http://bulletin.unl.edu/courses/EDAD/801)

Prereqs:
Permission

For those interested in exploring leadership and leadership issues from a cross-cultural perspective. Students construct their understanding of different cultural perspectives on leadership through readings, interviews, and field trips. Provides students with a valuable perspective on their own and other cultural perspectives through the comparison of cultural viewpoints. Native American understanding of leadership.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

811

Practicum in Educational Administration and Supervision

[LINK \(http://bulletin.unl.edu/courses/EDAD/811\)](http://bulletin.unl.edu/courses/EDAD/811)

Prereqs:
Permission

May be repeated for credit. Rating and supervision of teachers; principles and procedures in the development of school policies; selection and promotion of teachers; courses of study and professional ethics.

Credit Hours:	3-4
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

EDAD

813

Administration in Physical Education and Athletics

[LINK \(http://bulletin.unl.edu/courses/EDAD/813\)](http://bulletin.unl.edu/courses/EDAD/813)

Organization and administration of physical education and athletic programs in colleges and school systems. Practices and policies as they relate to various situations and problems and in the theoretical base for these practices and policies.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

814

Risk Management for Sport Facilities

[LINK \(http://bulletin.unl.edu/courses/EDAD/814\)](http://bulletin.unl.edu/courses/EDAD/814)

Legal and risk management aspects of construction, supervision, and management of sport, athletic, and recreation indoor and outdoor facilities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

830

Administrative Theory in Educational Organizations

[LINK \(http://bulletin.unl.edu/courses/EDAD/830\)](http://bulletin.unl.edu/courses/EDAD/830)

Introduction to classic and contemporary administrative theory as applied to educational organizations. The theoretical nature of the course content is relevant to those with an interest in a broad variety of educational institutions. General organizational theory, organizational models, historical

Credit Hours:	3
Campus:	

schools of administrative theory, authority, power, motivation, and leadership. Frequently students are involved in studying problems of practice as a means of testing theory.

Course Delivery: Classroom

EDAD
833 **Educational Finance**

[LINK \(http://bulletin.unl.edu/courses/EDAD/833\)](http://bulletin.unl.edu/courses/EDAD/833)

Critical analysis of the political and economic elements impacting K-12 school finance. Content and activities address both building and district level concerns with an emphasis on principles, programs, and trends in school finance.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD
835 **Business Management of Schools**

[LINK \(http://bulletin.unl.edu/courses/EDAD/835\)](http://bulletin.unl.edu/courses/EDAD/835)

Allocation and management of fiscal resources including aspects of financial planning and reporting, budgeting and accounting procedures, purchasing, risk management and insurance, investing and bond issues, and auxiliary service.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD
836 **Planning for Change**

[LINK \(http://bulletin.unl.edu/courses/EDAD/836\)](http://bulletin.unl.edu/courses/EDAD/836)

Rationale for planning in a changing environment will be explored; the theoretical base for planning presented; strategic, futuristic planning and operational planning explored; the development of planning strategies, techniques and procedures; the process of evaluation, feedback and revisions explored; and the management of the change process analyzed.

Credit Hours: 2-3

Campus:

Course Delivery: Classroom

EDAD
837 **Education Law**

[LINK \(http://bulletin.unl.edu/courses/EDAD/837\)](http://bulletin.unl.edu/courses/EDAD/837)

Evolution, principles, and practice of education law in relation to local, state, and national units of organization. Education law of Nebraska.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD
838 **Educational Surveys**

[LINK \(http://bulletin.unl.edu/courses/EDAD/838\)](http://bulletin.unl.edu/courses/EDAD/838)

School systems and its educational program in terms of needs of attendance area served. Organization and interpretation of pertinent data and formulation of recommendations for improvement of educational systems. Long-range planning.

Credit Hours: 2-3

Campus:

Course Delivery: Classroom

EDAD
839 **Educational Facilities**

[LINK \(http://bulletin.unl.edu/courses/EDAD/839\)](http://bulletin.unl.edu/courses/EDAD/839)

Techniques for planning educational facilities through use of surveys, educational specifications, and standards. Function of the school administrator in school facilities planning, construction, and utilization.

Credit Hours: 2-3

Campus:

Course Delivery: Classroom

EDAD
College Students in America

[LINK \(http://bulletin.unl.edu/courses/EDAD/842\)](http://bulletin.unl.edu/courses/EDAD/842)

842

This course is designed to provide students an understanding of a broad range of facts and issues pertaining to undergraduate college students in America.

Credit Hours:	3
Course Format:	Lecture 2.33
Course Delivery:	Classroom

EDAD

843

Counseling Principles for Educational Administrators

[LINK \(http://bulletin.unl.edu/courses/EDAD/843\)](http://bulletin.unl.edu/courses/EDAD/843)

This is an introductory level counseling course designed specifically for educational administrators. It is not intended to prepare individuals to become professional counseling practitioners. It offers a broad overview of counsel principles. This is a theory-to-practice course.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDAD

851

Faculty and Staff Appraisal

[LINK \(http://bulletin.unl.edu/courses/EDAD/851\)](http://bulletin.unl.edu/courses/EDAD/851)

Faculty and support staff in P-12 schools: appraisal, professional learning communities, high standards/high performance and accountability.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

852

School Culture and Student Behavior

[LINK \(http://bulletin.unl.edu/courses/EDAD/852\)](http://bulletin.unl.edu/courses/EDAD/852)

School culture and student behavior in P-12 schools. Personalized teaching and learning environments that address student diversity, needs and interests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

855

Teaching Learners to Learn

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

856

Supervising Special Education

Crosslisted as *SPED 856*

[LINK \(http://bulletin.unl.edu/courses/EDAD/856\)](http://bulletin.unl.edu/courses/EDAD/856)

For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

857

Special Education Administration

Crosslisted as *SPED 857*

[LINK \(http://bulletin.unl.edu/courses/EDAD/857\)](http://bulletin.unl.edu/courses/EDAD/857)

Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

858

Special Education Law

Crosslisted as *SPED 858*

[LINK \(http://bulletin.unl.edu/courses/EDAD/858\)](http://bulletin.unl.edu/courses/EDAD/858)

Body of law that pertains to the organization, administration, and implementation of special education programs in PreK-12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

870

Constitutional Law I

Crosslisted as *LAW 609G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/870\)](http://bulletin.unl.edu/courses/EDAD/870)

Structure of the federal government, including the history and judicial interpretation of the Constitution, federalism, interstate commerce, due process, equal protection, and separation of powers.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

871

Constitutional Law II

Crosslisted as *LAW 732G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/871\)](http://bulletin.unl.edu/courses/EDAD/871)

Emphasizes protected individual civil liberties. The origin and modern applicability of the state action concept in constitutional litigation; the scope of congressional power to enforce the post Civil War amendments; freedom of speech, association, and press; and constitutional principles enforcing the first amendment's command that "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof."

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

872

Introduction to Law, Legal Process, and Legislation

[LINK \(http://bulletin.unl.edu/courses/EDAD/872\)](http://bulletin.unl.edu/courses/EDAD/872)

How law is made and changed, the role of the individual, the business corporation, the private association, the administrative agency, the voting public, the legislature, and the courts in making and changing law.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

874

Torts I

Crosslisted as *LAW 503G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/874\)](http://bulletin.unl.edu/courses/EDAD/874)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours: 1-6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDAD

875

Torts II

[LINK \(http://bulletin.unl.edu/courses/EDAD/875\)](http://bulletin.unl.edu/courses/EDAD/875)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests.

Credit Hours: 1-6

Max credits per degree: 6

Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Campus:	
Course Delivery:	Classroom

EDAD
880B **Designing Instructional Technology K-12**

[LINK \(http://bulletin.unl.edu/courses/EDAD/880B\)](http://bulletin.unl.edu/courses/EDAD/880B)

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

EDAD
890 **Workshop Seminar**

[LINK \(http://bulletin.unl.edu/courses/EDAD/890\)](http://bulletin.unl.edu/courses/EDAD/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDAD
893 **Workshop Seminar**

[LINK \(http://bulletin.unl.edu/courses/EDAD/893\)](http://bulletin.unl.edu/courses/EDAD/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDAD
896 **Independent Study**

[LINK \(http://bulletin.unl.edu/courses/EDAD/896\)](http://bulletin.unl.edu/courses/EDAD/896)

Prereqs:
Permission

Selected topic with the direction and guidance of a staff member.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD
899 **Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/EDAD/899\)](http://bulletin.unl.edu/courses/EDAD/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

EDAD
901 **System-Level School Improvement**

[LINK \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901)

This course is a prerequisite for: [EDAD 902 \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

Knowledge and skills required for system-level leaders to bring about school improvement and enhance student achievement. Creating systems that engage the public, performing in complex political environments, and delivering needed services to schools and classrooms.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
Data for Action Planning

[LINK \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

902

Prereqs:
[EDAD 901 \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901).

EDAD 902 (http://bulletin.unl.edu/courses/EDAD/902) requires developing an initial school improvement plan.

Assessment theory and types of assessments used to measure student performance relative to a school improvement goal. Relationships between profile data and baseline data, locally developed classroom assessments, and post data pertaining to school improvement goals and action plans.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD 903 Issues in Community Relations

[LINK \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903)

This course is a prerequisite for: [EDAD 904 \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

Principles of community relations and public relations; development of school and community understanding; collaboration of educators and community agents and agencies; communication tools and evaluation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 904 Analysis in Continuous Improvement

[LINK \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

Prereqs:
[EDAD 903 \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903).

EDAD 904 (http://bulletin.unl.edu/courses/EDAD/904) requires generating recommendations for proceeding into the next cycle of school improvement and conducting a personal self-analysis of improvement process skills and obtain information from supervisors and/or colleagues regarding abilities as a

Analyze how staff attitudes and behaviors are impacted through the improvement process.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD 905 Issues in Governance of Educational Institutions

[LINK \(http://bulletin.unl.edu/courses/EDAD/905\)](http://bulletin.unl.edu/courses/EDAD/905)

Issues in the governance of K-12 schools including administrator-school board roles and relationships.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

EDAD 906 Issues in System Level Administration

[LINK \(http://bulletin.unl.edu/courses/EDAD/906\)](http://bulletin.unl.edu/courses/EDAD/906)

Prereqs:
Masters degree or equivalent.

Selected system level issues faced by pre-K to grade 12 school administrators.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD 907 Issues in Educational Politics and Policies

[LINK \(http://bulletin.unl.edu/courses/EDAD/907\)](http://bulletin.unl.edu/courses/EDAD/907)

Analyze and evaluate policy processes involved in making choices; develop understanding, apply and evaluate knowledge about key political concepts and theories to the analysis of educational policy issues; analyze and evaluate issues as points of political conflict between institutional structures with competing interests; understand people as the actors in roles they occupy in the political system.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

908/929

Seminar in Adult and Continuing Education

Crosslisted as *EDPS 929*

[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

EDAD

909

Seminar in Human Resource Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/909\)](http://bulletin.unl.edu/courses/EDAD/909)

Prereqs:

[EDAD 821 \(http://bulletin.unl.edu/courses/EDAD/821\)](http://bulletin.unl.edu/courses/EDAD/821) or [822 \(http://bulletin.unl.edu/courses/EDAD/822\)](http://bulletin.unl.edu/courses/EDAD/822)

Current research and theory within the field of human resource development, broadly defined. Stresses key problems affecting the training, development, and education of human resources within organizational settings.

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

EDAD

910

The Higher Education Environment

[LINK \(http://bulletin.unl.edu/courses/EDAD/910\)](http://bulletin.unl.edu/courses/EDAD/910)

Universities are adaptive, living systems interacting with their environment. Equips participants with the skills required to analyze and assess the environment of higher education institutions. Environment concepts, components and structures are studied together with analysis techniques and methodological approaches to future study.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

912A

Educational Leadership in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/912A\)](http://bulletin.unl.edu/courses/EDAD/912A)

Strategic thinking, application of leadership theories in the educational setting. Develop a clear personal philosophy of leadership and engage in collaborative active-learning. Multi-media simulations and/or scenarios and role playing to examine options, consequences, and leadership effectiveness in decision-making.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

912B

Educational Leadership in Community Colleges

[LINK \(http://bulletin.unl.edu/courses/EDAD/912B\)](http://bulletin.unl.edu/courses/EDAD/912B)

Issues facing community college leaders and the knowledge, skills, and competencies necessary to provide effective leadership in the community college setting. Case studies of community colleges, combined with the literature on community college leadership, and active learning opportunities to examine current practices and develop a personal philosophy of leadership.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

Administrative Issues in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/921\)](http://bulletin.unl.edu/courses/EDAD/921)

921

Introduction to contemporary issues in the administration of higher education with a focus on the scholarly literature, a comparative analysis of administration in types of institutions, leadership and planning, institutional and environmental issues, and selected topics.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD **922** **Finance in Higher Education**

[LINK \(http://bulletin.unl.edu/courses/EDAD/922\)](http://bulletin.unl.edu/courses/EDAD/922)

Federal and state government funding, institutional planning, technological and community influences, human resources finance, budgeting, and sources of financial support as they relate to higher education institutions and agencies.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD **923** **The Community/Junior College**

[LINK \(http://bulletin.unl.edu/courses/EDAD/923\)](http://bulletin.unl.edu/courses/EDAD/923)

Designed particularly for those interested in upper secondary and college levels. Junior college movement; relationship of movement to provisions for an adequate educational program; functions of the junior college; legal status and basis for extension of junior college; problems of organization, administration, and curriculum.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDAD **924** **Administration of Higher Education Instructional Programs**

[LINK \(http://bulletin.unl.edu/courses/EDAD/924\)](http://bulletin.unl.edu/courses/EDAD/924)

Administration of higher education instructional programs. Exploration of curricular issues including an assessment of program quality and reputation, program reallocations, retrenchments, and expansions.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD **925** **Law and Higher Education**

[LINK \(http://bulletin.unl.edu/courses/EDAD/925\)](http://bulletin.unl.edu/courses/EDAD/925)

Examination of legal principles applicable to higher education institutions. Overview of the legal system, higher education institutions as legal entities, authority for governance and administration, faculty rights and responsibilities, student rights and responsibilities, institutional and personal liability, and other selected issues.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD **926** **The American Professoriate: An Administrative Perspective**

[LINK \(http://bulletin.unl.edu/courses/EDAD/926\)](http://bulletin.unl.edu/courses/EDAD/926)

Contemporary faculty issues in postsecondary education institutions from the perspective of college administrators. Current status of faculty, assigning faculty workloads and monitoring performance levels, evaluating faculty performance, structuring development activities, and special topics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD **931** **Higher Education Information Systems**

[LINK \(http://bulletin.unl.edu/courses/EDAD/931\)](http://bulletin.unl.edu/courses/EDAD/931)

931

Foundation in management information systems. Issues in information systems, current research and writings, key terms, and how information systems impacts organizational culture, business processes, work-flow, and overall operations of an institution. The roles in the application, analysis, and management of higher education administration technology.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
932 **Global Issues in Higher Education**

[LINK \(http://bulletin.unl.edu/courses/EDAD/932\)](http://bulletin.unl.edu/courses/EDAD/932)

Selected issues affecting global educational policies and practices.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
933 **Strategic Planning**

[LINK \(http://bulletin.unl.edu/courses/EDAD/933\)](http://bulletin.unl.edu/courses/EDAD/933)

EDAD 933 (http://bulletin.unl.edu/courses/EDAD/933) requires the student to analyze their respective institution's planning process and plan, and to participate in a simulation activity that reinforces the principles and practices of strategic planning.

System theory, practice and problem solving. The strategic planning process in higher education. Models of strategic planning.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
934 **Teaching and Learning in the Community College**

[LINK \(http://bulletin.unl.edu/courses/EDAD/934\)](http://bulletin.unl.edu/courses/EDAD/934)

Develop comprehensive understanding of five aspects of the community college: Curricular missions in general education, transfer education, career education, remedial/developmental education and community education; faculty and student populations; exemplary teaching and assessment of student learning outcomes; program and curriculum development; and human resources aspects related to instructional programs in hiring faculty and providing faculty development programs.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
935 **Workforce, Economic, and Community Development**

[LINK \(http://bulletin.unl.edu/courses/EDAD/935\)](http://bulletin.unl.edu/courses/EDAD/935)

Workforce, economic and community development role of higher education within the broader context of recent economic, social, and technological changes in communities, society, and the economy. Applicable to higher education in general with an emphasis on the example of two-year community colleges.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
948 **Instructional Leadership: Emerging Trends and Practices**

Crosslisted as *TEAC 948*

[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

with cooperative learning provide the focus of the activities.

EDAD

956

Employment Law Seminar

Crosslisted as *LAW 759G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/956\)](http://bulletin.unl.edu/courses/EDAD/956)

Selected current national and state legal issues pertaining to private and public employment.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

959

Law and Educational Administration

Crosslisted as *LAW 695G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/959\)](http://bulletin.unl.edu/courses/EDAD/959)

Current legal issues of national significance relating to educational institutions; analysis of constitutional provisions, statutes, and court decisions affecting education; separation of church and state; rights of equality; student rights, responsibilities, and discipline; application of criminal and juvenile provisions; use of school property; control of the curriculum and extracurricular activities; contractual and tort liability; hiring, collective actions, tenure, outside activities, discharge, and retirement of teachers; confidentiality; accrediting agencies; and similar current legal matters.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

960

Public Employment Law

[LINK \(http://bulletin.unl.edu/courses/EDAD/960\)](http://bulletin.unl.edu/courses/EDAD/960)

Legal issues relating to public employment with particular emphasis on public schools and colleges; collective bargaining by public employees, impasse, and resolution of public employee disputes; grievances, arbitration, and enforcement of agreements; civil rights of public employees; and laws applicable to public employment apart from collective bargaining, such as discrimination acts, wage and hour laws, retirement plans, and public records.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

961

Trial Advocacy

[LINK \(http://bulletin.unl.edu/courses/EDAD/961\)](http://bulletin.unl.edu/courses/EDAD/961)

Prereqs:
[LAW 646G \(http://bulletin.unl.edu/courses/LAW/646G\)](http://bulletin.unl.edu/courses/LAW/646G).

Students perform weekly exercises which are videotaped and critiqued and will try a case. Fundamentals of trial practice. Emphasis on questioning witnesses, selecting and addressing the jury, and admitting items into evidence.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

963

Legislation Seminar

Crosslisted as *LAW 777G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/963\)](http://bulletin.unl.edu/courses/EDAD/963)

Development of further skills in drafting and interpreting statutes, understanding legislative processes and decision making, and evaluating the role of legislation in governmental regulation. Opportunity for in-depth study of subjects pertaining to or involving legislation, centering on subjects considered by the Nebraska Legislature and the Nebraska legislative process.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

Local Government Law

Crosslisted as *LAW 788G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/964\)](http://bulletin.unl.edu/courses/EDAD/964)

964

Law of local government units with emphasis on current problems in the operation and administration of local government, models and theories of local government.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

966**Seminar in Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/966\)](http://bulletin.unl.edu/courses/EDAD/966)

Prereqs:
Permission

Education administration problems with an analysis of research and literature pertaining to these problems.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDAD

968**Education Law Seminar**Crosslisted as *LAW 621G*[LINK \(http://bulletin.unl.edu/courses/EDAD/968\)](http://bulletin.unl.edu/courses/EDAD/968)

Selected current national and state legal issues pertaining to education.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

970**Criminal Law**Crosslisted as *LAW 508G*[LINK \(http://bulletin.unl.edu/courses/EDAD/970\)](http://bulletin.unl.edu/courses/EDAD/970)

Substantive criminal law, focusing on the theoretical foundations, general principles, and doctrines that govern the rules of liability and defenses, both in the common law tradition and under the Model Penal Code.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

971**Evidence**Crosslisted as *LAW 646G*[LINK \(http://bulletin.unl.edu/courses/EDAD/971\)](http://bulletin.unl.edu/courses/EDAD/971)

Relevancy and admission of evidence, including hearsay, opinions, privileges, other exclusionary rules, examination of witnesses, judicial notice, and physical evidence.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

973**Jurisprudence**Crosslisted as *LAW 672G*[LINK \(http://bulletin.unl.edu/courses/EDAD/973\)](http://bulletin.unl.edu/courses/EDAD/973)

What is good and what is bad about law; the judicial process; principal schools of jurists; theories of the nature of law and the legal order; the American social system and the law; obligations to obey or to disobey the law; and ideas of justice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

976**Legal Control of Discrimination**Crosslisted as *LAW 680G*[LINK \(http://bulletin.unl.edu/courses/EDAD/976\)](http://bulletin.unl.edu/courses/EDAD/976)

Selected legal issues pertaining to the legal control of discrimination.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

977**Constitutional History**Crosslisted as *LAW 619/619G*[LINK \(http://bulletin.unl.edu/courses/EDAD/977\)](http://bulletin.unl.edu/courses/EDAD/977)

American constitutional history with a focus on "transformative" moments at which the Constitution and the nature of American politics and government changed. American Revolution and the framing of the Constitution and Bill of Rights, Civil War and Reconstruction, and the New Deal. Exploration of the courts and how they stood on history and original intent when they interpret the Constitution.

Credit Hours:	1-4
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDAD

978**Mass Communications Law**Crosslisted as *LAW 649G*[LINK \(http://bulletin.unl.edu/courses/EDAD/978\)](http://bulletin.unl.edu/courses/EDAD/978)

In-depth focus on the first amendment. Includes legal distinctions between the print and broadcast media, free press and fair trial, access to media, and licit and illicit ideas.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

979**Seminar in College Student Personnel Work**Crosslisted as *EDPS 979*[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research literature, some field experiences, and in-depth examination of special topics.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDAD

981**Introduction to Research**[LINK \(http://bulletin.unl.edu/courses/EDAD/981\)](http://bulletin.unl.edu/courses/EDAD/981)

A written report is required. Investigation and analysis of current problems in education administration and supervision.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD

988**Dissertation Proposal Development**[LINK \(http://bulletin.unl.edu/courses/EDAD/988\)](http://bulletin.unl.edu/courses/EDAD/988)

Prereqs:
Admission to a doctoral program

Intended for students who are working on the development of their dissertation proposal. Component parts of the dissertation proposal. Students from all areas of Teachers College and the University of Nebraska who are in the process of developing their proposal will find this course to be of use. Typically the course should be taken after the research tools have been completed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

989**Survey of Administrative Research**[LINK \(http://bulletin.unl.edu/courses/EDAD/989\)](http://bulletin.unl.edu/courses/EDAD/989)

Intended primarily for students of education who are candidates for doctoral degrees. Readings, discussions, and an analysis of educational problems and research.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

990**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/990\)](http://bulletin.unl.edu/courses/EDAD/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDAD

991**Field Studies in Education**[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Crosslisted as *NUTR 991*, *TEAC 991*

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDAD

993**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/993\)](http://bulletin.unl.edu/courses/EDAD/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDAD

995**Doctoral Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/995\)](http://bulletin.unl.edu/courses/EDAD/995)

Prereqs:
Permission

Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice. Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

EDAD

998**Seminar: Internship in Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/998\)](http://bulletin.unl.edu/courses/EDAD/998)

Prereqs:
Permission

Opportunity for educational administrators to gain an understanding of administering changes or innovations, and to obtain supervised field experience. Consideration will be given antecedents of change, change models, the role of government, forces that restrict or stimulate change, tools to implement change, and evaluation.

Credit Hours:	1-6
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDAD

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/EDAD/999\)](http://bulletin.unl.edu/courses/EDAD/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

EDPS
900J

Historical Methods in Educational Research

Crosslisted as *EDAD 900J*

[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)

Prereqs:
EDPS *800 or equivalent; EDPS 459
(<http://bulletin.unl.edu/courses/EDPS/459>)/859
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS
977

Seminar in College Student Development

Crosslisted as *EDAD 980*

[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED
892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
425/825

Coordination in Occupational Training Programs

Crosslisted as *EDAD 825*

[LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours:	1-3
Course Delivery:	Classroom

Courses for EDPS (EDPS)

ANTH
478/878

Pro-seminar in Latin American Studies

Crosslisted as *HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878*

[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)

Prereqs:
Junior standing and permission.

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Credit Hours:	3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

EDAD

855**Teaching Learners to Learn**Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

908/929**Seminar in Adult and Continuing Education**Crosslisted as *EDPS 929*[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD

979**Seminar in College Student Personnel Work**Crosslisted as *EDPS 979*[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research literature, some field experiences, and in-depth examination of special topics.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS

451/851**Psychology of Adolescence**[LINK \(http://bulletin.unl.edu/courses/EDPS/451\)](http://bulletin.unl.edu/courses/EDPS/451)

Mental, social, and emotional development of boys and girls during the adolescent period.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

454/854**Human Cognition and Instruction**[LINK \(http://bulletin.unl.edu/courses/EDPS/454\)](http://bulletin.unl.edu/courses/EDPS/454)

Cognitive psychology and its applications in instruction. Memory, problem solving, cognitive process in reading, research approaches, and applications to teaching.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

459/859**Statistical Methods**[LINK \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)

This course is a prerequisite for: [EDPS 800 \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800), [EDPS 470 \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470), [NUTR 486 \(http://bulletin.unl.edu/courses/NUTR/486\)](http://bulletin.unl.edu/courses/NUTR/486), [EDPS 900A \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A), [EDPS 900B \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B), [EDPS 900D \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D), [EDPS 900I \(http://bulletin.unl.edu/courses/EDPS/900I\)](http://bulletin.unl.edu/courses/EDPS/900I), [EDPS 900K \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	3?

Computation and interpretation of measures of central position, variability, and correlation; introduction to sampling, probability, and tests of significance.

EDPS

Psychology of Disability[LINK \(http://bulletin.unl.edu/courses/EDPS/462\)](http://bulletin.unl.edu/courses/EDPS/462)**462/862**

Research and theoretical literature related to the relationship between various disabling conditions and the psychological functioning of the person with disability.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

Introduction to Applied Behavior Analysis[LINK \(http://bulletin.unl.edu/courses/EDPS/463\)](http://bulletin.unl.edu/courses/EDPS/463)**463/863**

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Research methods and findings, concepts, and principles of operant conditioning as related to the experimental analysis of human behavioral events and to the development of behavior engineering technologies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDPS

Practices in Counseling and Personnel Services[LINK \(http://bulletin.unl.edu/courses/EDPS/465\)](http://bulletin.unl.edu/courses/EDPS/465)**465/865**

Basic practices and related research in counseling and helping practices in educational or other youth-serving agencies. Specialized applications to populations presenting unique problems are offered in sections B through L. B. Special Practices for Handicapped Children and Youth (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). D. Special Practices for Exceptionally Talented and Gifted (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). E. Special Practices in the Elementary School (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). K. Special Practices for Vocational Education/Development Programs (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). L. Special Practices for Community Helpers Working with Adults (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A).

Credit Hours:	1-8
Max credits per degree:	8
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

Psychopathological Disorders of Childhood and Adolescence[LINK \(http://bulletin.unl.edu/courses/EDPS/469\)](http://bulletin.unl.edu/courses/EDPS/469)**469/869**

Investigation of the genesis, course, classification, and treatment of function and organic pathologies found in children and adolescents.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

Introduction to Educational and Psychological Measurement[LINK \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470)**470/870**

Prereqs:
[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)/[859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent.

Introduction to the construction, evaluation, and ethical use of measurement instruments commonly used in education and psychology. Test construction principles, item analysis, reliability, validity, ethical issues in testing, and evaluation of standardized tests.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

Directed Field Experience[LINK \(http://bulletin.unl.edu/courses/EDPS/496\)](http://bulletin.unl.edu/courses/EDPS/496)

496/896

Prereqs:
Permission.

Credit Hours:	1-24
Course Delivery:	Classroom

EDPS

Special Topics

[LINK \(http://bulletin.unl.edu/courses/EDPS/498\)](http://bulletin.unl.edu/courses/EDPS/498)

498/898

Prereqs:
Permission.

Seminar on current issues or topics in educational psychology. Topics vary.

Credit Hours:	1-6
Max credits per semester:	6
Course Delivery:	Classroom

EDPS

Foundations of Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800)

800

Prereqs:
EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent or parallel
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>)

Purposes and characteristics of research process, selection of research problems in education and social sciences, critical review of published research, research ethics and institutional review, sampling methods, threats to validity in research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

Computer-Assisted Research Data Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/845\)](http://bulletin.unl.edu/courses/EDPS/845)

845

Prereqs:
One statistics course beyond EDPS 859
(<http://bulletin.unl.edu/courses/EDPS/859>)

Pass/No Pass only.

Statistical software packages for both mainframe and microcomputers. How to develop and manage data files; how to transfer data files between computers; and principles of data transformation and selection.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

Foundations of Health Behavior

[LINK \(http://bulletin.unl.edu/courses/EDPS/846\)](http://bulletin.unl.edu/courses/EDPS/846)

846

Crosslisted as *NUTR 846*

The epidemiological, developmental and cognitive foundation of health-related behaviors and identifies opportunities for health promotion and education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

Theoretical Models of Health Behavior Change

[LINK \(http://bulletin.unl.edu/courses/EDPS/847\)](http://bulletin.unl.edu/courses/EDPS/847)

847

Crosslisted as *NUTR 847*

Application of widely used theoretical models of health behavior change. Specification of behaviors and development and evaluation of theory-based interventions to reduce health-related risks.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

Child Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850)

850

This course is a prerequisite for: [EDPS 960 \(http://bulletin.unl.edu/courses/EDPS/960\)](http://bulletin.unl.edu/courses/EDPS/960), [EDPS 961 \(http://bulletin.unl.edu/courses/EDPS/961\)](http://bulletin.unl.edu/courses/EDPS/961), [EDPS 962 \(http://bulletin.unl.edu/courses/EDPS/962\)](http://bulletin.unl.edu/courses/EDPS/962), [EDPS 963 \(http://bulletin.unl.edu/courses/EDPS/963\)](http://bulletin.unl.edu/courses/EDPS/963)

Advanced study of the behavior and development of preschool and elementary school children.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

853**Psychological Assessment I**[LINK \(http://bulletin.unl.edu/courses/EDPS/853\)](http://bulletin.unl.edu/courses/EDPS/853)

Prereqs:
[EDPS 870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870) or equivalent

This course is a prerequisite for: [EDPS 956 \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Basic assessment and testing skills including “behavioral observation”, psychometric issues, intake/diagnostic interviewing, psychological testing, test interpretation feedback, and integrative report writing. Commonly used screening instruments, personality tests, career interest inventories, and symptom-based tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

860**Applications of Selected Advanced Statistics**[LINK \(http://bulletin.unl.edu/courses/EDPS/860\)](http://bulletin.unl.edu/courses/EDPS/860)

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Variety of parametric and nonparametric analyses, including analysis of variance (completely randomized design and various factorial designs), regression analysis, analysis of covariance, full model stepwise multiple regression, chi square Mann–Whitney U, and Wilcoxon test. Understanding and application of these analyses. Appropriate mainframe and microcomputer statistical packages utilized to assist in the numerical analysis of data.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

866**Counseling Pre–Practicum**[LINK \(http://bulletin.unl.edu/courses/EDPS/866\)](http://bulletin.unl.edu/courses/EDPS/866)

Counseling skills required for basic, entry–level clinical work. Practicing skills, receiving peer/instructor performance feedback, and role–playing clinical situations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

867**Roles and Functions in School Psychological Services**[LINK \(http://bulletin.unl.edu/courses/EDPS/867\)](http://bulletin.unl.edu/courses/EDPS/867)

Foundations, models, and practices of contemporary school psychology and an exploration of transitions and future developments in the profession. Investigations of the major legal and ethical systems affecting specialists in the schools and the application of standards for ethical professional practice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

868**Multicultural Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/868\)](http://bulletin.unl.edu/courses/EDPS/868)

Prereqs:
EDPS *866 or comparable course or permission

Ethnic subcultures in the US, cross-cultural communication systems, and change strategies. Cultural cues and barriers in counseling, personal assumptions and values, and active experiencing of cultural diversity in the counseling relationship.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/890\)](http://bulletin.unl.edu/courses/EDPS/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

EDPS

893

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/893\)](http://bulletin.unl.edu/courses/EDPS/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

EDPS

897J

Gifted/Talented

[LINK \(http://bulletin.unl.edu/courses/EDPS/897J\)](http://bulletin.unl.edu/courses/EDPS/897J)

Campus:

Course Delivery: Classroom

EDPS

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/EDPS/899\)](http://bulletin.unl.edu/courses/EDPS/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

EDPS

900A

Correlational and Experimental Methods in Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A)

Prereqs:
EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) or equivalent; EDPS *800 or equivalent

Integrated view of correlational and experimental research in education and social sciences. Builds on idea of relationships among variables and concept of casual relationships between variables. Possible research designs in light of these general principles.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

900B

Single Case/Small N Methods in Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B)

Prereqs:
[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859)
 [\(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent; EDPS *800 or equivalent

General issues related to the use of single case and/or small N methods, in which individuals are observed over time before and subsequent to experimental intervention. Comparison to traditional experimental methods. Repeated measurement techniques. Various research designs appropriate to single case methods.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS
900D **Survey Methods in Educational Research**

[LINK \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D)

Prereqs:
[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859)
 [\(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent; EDPS *800 or equivalent

Principles and applications of survey research. Use of appropriate sampling techniques and applications of survey methods to the study of relative incidence, distribution, and interrelations of educational, sociological, and psychological variables.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
900J **Historical Methods in Educational Research**

Crosslisted as *EDAD 900J*

[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)

Prereqs:
EDPS *800 or equivalent; [EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859)
 [\(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS
900K **Qualitative Approaches to Educational Research**

[LINK \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Prereqs:
[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859)
 [\(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent; EDPS *800 or equivalent

Uses of qualitative research methods in education. The theoretical premises of research using qualitative methods and the application of this information through critique and planning research. Qualitative methods for data collection.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
905 **Research and Evaluation Literature on Health Promotion**

Crosslisted as *NUTR 905*

[LINK \(http://bulletin.unl.edu/courses/EDPS/905\)](http://bulletin.unl.edu/courses/EDPS/905)

Philosophical and empirical review and critique of contemporary literature on school, community, work place and health care-based health promotion and education programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
935 **Seminar in Qualitative Research**

Crosslisted as *TEAC 935*

[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)

Prereqs:
[EDUC 900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

936

Mixed Methods Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/936\)](http://bulletin.unl.edu/courses/EDPS/936)

Prereqs:
[EDUC 800 \(http://bulletin.unl.edu/courses/EDUC/800\)](http://bulletin.unl.edu/courses/EDUC/800) or equivalent, and [EDUC 900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K)

[EDPS 936 \(http://bulletin.unl.edu/courses/EDPS/936\)](http://bulletin.unl.edu/courses/EDPS/936) is for students already familiar with quantitative and qualitative research. An introduction to mixed methods research as a distinct methodology in social science research. Topics include the value and use of this approach, philosophical assumptions, various types of design, and approaches to designing and conducting mixed methods research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

941

Intermediate Statistics: Experimental Methods

Crosslisted as *SRAM 941*

[LINK \(http://bulletin.unl.edu/courses/EDPS/941\)](http://bulletin.unl.edu/courses/EDPS/941)

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Computation, interpretation, and application of analysis of variance techniques, including factorial and mixed model designs. Computer and microcomputer software accessed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

942

Intermediate Statistics: Correlational Methods

Crosslisted as *SRAM 942*

[LINK \(http://bulletin.unl.edu/courses/EDPS/942\)](http://bulletin.unl.edu/courses/EDPS/942)

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Various correlational-based statistical procedures presented, including linear and nonlinear regression, multiple regression, statistical control, analysis of interactions, the general linear model, factor analysis, and discriminant analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

948

Multicultural Issues in School Psychological Service Delivery

[LINK \(http://bulletin.unl.edu/courses/EDPS/948\)](http://bulletin.unl.edu/courses/EDPS/948)

Current issues related to psycho-educational service delivery to children and families from different cultural and linguistic backgrounds. Integrating research and field experiences to provide students with skills to develop, implement, and deliver culturally sensitive and effective school psychological services.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

949

Cognitive and Behavioral Therapy with Children and Adolescents

[LINK \(http://bulletin.unl.edu/courses/EDPS/949\)](http://bulletin.unl.edu/courses/EDPS/949)

Prereqs:
Permission

This course is a prerequisite for: [EDPS 955 \(http://bulletin.unl.edu/courses/EDPS/955\)](http://bulletin.unl.edu/courses/EDPS/955)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Cognitive and behavioral techniques. Theoretical issues, application and evaluation of major empirically-validated therapeutic treatments that represent best practices in child and adolescent therapy.

EDPS
950

Intellectual Assessment

[LINK \(http://bulletin.unl.edu/courses/EDPS/950\)](http://bulletin.unl.edu/courses/EDPS/950)

Prereqs:
or coreq: [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859), [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870), and permission

This course is a prerequisite for: [EDPS 951 \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951)

Formal evaluative methods for the investigation of children's learning difficulties, including supervised practicum in administration, scoring, and interpretation of individually administered tests of cognitive abilities.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDPS
951

Academic and Behavioral Assessment

[LINK \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951)

Prereqs:
[EDPS 950 \(http://bulletin.unl.edu/courses/EDPS/950\)](http://bulletin.unl.edu/courses/EDPS/950) and permission

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Advanced study of the theory and practice in the assessment of educational and psychological problems of children and youth to include assessment of systems that impact on the behavior of children and youth. Assessment techniques include environmental observation, interviewing, standardized assessment procedures for academic skills, adaptive behavior, social and emotional problems, curriculum based assessment, and functional analysis and assessment. Ecological-behavioral basis of assessment is explored. A complete psychological and educational evaluation is conducted in a school or other relevant setting.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDPS
952

Systems of Consultation in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/952\)](http://bulletin.unl.edu/courses/EDPS/952)

Prereqs:
[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863)

Intensive analysis of the theory and practice of various systems of mental health consultation in the schools with special emphasis and practicum with mental health service models other than conventional clinical, psychometric, and direct psychoeducational remediation models.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
953

Psychological Assessment II

[LINK \(http://bulletin.unl.edu/courses/EDPS/953\)](http://bulletin.unl.edu/courses/EDPS/953)

Prereqs:
[EDPS *853 or equivalent](#)

This course is a prerequisite for: [EDPS 956 \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Advanced assessment and testing skills. Selection, administration and interpretation of a battery of psychological tests and integration and synthesis of relevant test and non-test data into an accessible report writing format. Development of effective consultation and test interpretation feedback skills.

Credit Hours: 4

Campus:

Course Delivery: Classroom

EDPS

Interventions in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

954**Prereqs:**

EDPS 463 (<http://bulletin.unl.edu/courses/EDPS/463/>), **863** (<http://bulletin.unl.edu/courses/EDPS/863/>), **EDPS 951** (<http://bulletin.unl.edu/courses/EDPS/951/>) or parallel; and permission

Prepares school psychologists to plan and provide evidence-based psychoeducational interventions for children, youth, families and schools. Application of ecobehavioral theory, models of school mental health, the scientist-practitioner model, the practice of psychotherapy, and empirical evidence of the effectiveness of interventions for culturally and linguistically diverse students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

955**Child Therapy****LINK** (<http://bulletin.unl.edu/courses/EDPS/955/>)**Prereqs:**

EDPS 949 (<http://bulletin.unl.edu/courses/EDPS/949/>)

Advanced practicum course that facilitates students' scholarly acquisition of principles and concepts relevant to conducting therapy, and provides opportunities for practical integration of knowledge and skills essential to conducting individual, group, and family psychotherapy. Students acquire competencies in developing, implementing and evaluating interventions by conducting therapy sessions, observing sessions, exchanging feedback with peers, and receiving supervision.

Credit Hours:	4
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

956**Projective Psychological Assessment****LINK** (<http://bulletin.unl.edu/courses/EDPS/956/>)**Prereqs:**

EDPS 853 (<http://bulletin.unl.edu/courses/EDPS/853/>), and **EDPS 953** (<http://bulletin.unl.edu/courses/EDPS/953/>). Permission may be granted by instructor to take **Psychological Assessment II** after **Projective Psychological Assessment**.

The primary goal of this course is to assist doctoral students in developing their ability to utilize projective assessment techniques to integrate information from a variety of sources about a person (an adult or older adolescent) into an integrated, useful psychological report. The broad array of data will include not only the results of formal tests (e.g., the Rorschach), but also personal and family history, and behavioral observations.

Credit Hours:	4
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

958B**Practicum in School Psychology Consultation Techniques****LINK** (<http://bulletin.unl.edu/courses/EDPS/958B/>)**Prereqs:**

EDPS 863 (<http://bulletin.unl.edu/courses/EDPS/863/>), **952** (<http://bulletin.unl.edu/courses/EDPS/952/>), **997D** (<http://bulletin.unl.edu/courses/EDPS/997D/>) or equivalent, and permission

Practicum experience in ecological/behavioral, mental health, and organizational consultation techniques within a school or related setting. Supplemented by individual and small group supervisory/feedback sessions each week.

Credit Hours:	1-4
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

EDPS

960**Problem Solving and Concept Learning in Humans****LINK** (<http://bulletin.unl.edu/courses/EDPS/960/>)

Prereqs:
EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and 854 (<http://bulletin.unl.edu/courses/EDPS/854>)

Critical examination of the non-Piagetean research literature and theory which examines higher mental processes in humans through the lifespan.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

961

Cognitive Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/961\)](http://bulletin.unl.edu/courses/EDPS/961)

Prereqs:
EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Critical examination of theories and research on cognitive development throughout the lifespan, including Piagetean and alternative perspectives.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

962

Research Literature in Personality and Social Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/962\)](http://bulletin.unl.edu/courses/EDPS/962)

Prereqs:
EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Critical examination of the concepts and principles derived from the study of personality and social development with special emphasis on the research literature.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

963

Developmental Psychobiology

[LINK \(http://bulletin.unl.edu/courses/EDPS/963\)](http://bulletin.unl.edu/courses/EDPS/963)

Prereqs:
EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Biological foundations of human psychological development, including anatomical, physiological, and evolutionary considerations.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

964

Counseling Theories and Intervention Techniques

[LINK \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964)

Prereqs:
EDPS *866

Parallel: EDPS 997A (<http://bulletin.unl.edu/courses/EDPS/997A>) and permission of counseling area. Overview of theoretical approaches to counseling. Close examination of selected theories and intervention procedures.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

965A

Group Counseling: Social Psychological Aspects

[LINK \(http://bulletin.unl.edu/courses/EDPS/965A\)](http://bulletin.unl.edu/courses/EDPS/965A)

Prereqs:
EDPS *866

Parallel: EDPS 964 (<http://bulletin.unl.edu/courses/EDPS/964>) and 997A (<http://bulletin.unl.edu/courses/EDPS/997A>). Develops student competencies in analyzing organizational contexts, designing group counseling experiences, and evaluating group experiences.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

966

Psychology of Learning[LINK \(http://bulletin.unl.edu/courses/EDPS/966\)](http://bulletin.unl.edu/courses/EDPS/966)**Prereqs:**

[EDPS 854 \(http://bulletin.unl.edu/courses/EDPS/854\)](http://bulletin.unl.edu/courses/EDPS/854) and [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870)

Theories of learning and experimental investigation in the field of animal and human behavior and their application to the classroom.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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EDPS

967

Psychology of Motivation in Education[LINK \(http://bulletin.unl.edu/courses/EDPS/967\)](http://bulletin.unl.edu/courses/EDPS/967)**Prereqs:**

Graduate standing

[EDPS 854 \(http://bulletin.unl.edu/courses/EDPS/854\)](http://bulletin.unl.edu/courses/EDPS/854)

Psychology of Motivation focuses on understanding and impacting students' motivation to learn. Theories discussed in this class are applicable to a wide array of achievement settings (e.g., math, science, writing, health education) as well as more general motivational concerns (e.g., studying, addiction, video games). Content covered includes drive theory, behaviorism as motivation, achievement motivation, goal theory, self-determination theory, social cognitive theory, and ecological theories of motivation.

Credit Hours:	3
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Course Delivery:	Classroom
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EDPS

968

Gender and Counseling Psychology[LINK \(http://bulletin.unl.edu/courses/EDPS/968\)](http://bulletin.unl.edu/courses/EDPS/968)**Prereqs:**

Admitted as a graduate student in the Counseling Psychology program.

The major purpose of this course is for students to learn about gender issues within the field of counseling psychology from a multicultural and feminist perspective and to gain the essential knowledge and techniques in working with gender issues in diverse settings.

Credit Hours:	3
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Course Format:	Lecture 3
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Course Delivery:	Classroom
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EDPS

969

Nonparametric Statistical Methods[LINK \(http://bulletin.unl.edu/courses/EDPS/969\)](http://bulletin.unl.edu/courses/EDPS/969)**Prereqs:**

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Presentation of statistical procedures that do not require fundamental assumptions about the distribution property of the variables to be analyzed. Chi Square tests, rank tests of location (Wilcoxon, Mann Whitney, Kruskal-Wallis, Friedman), tests of goodness of fit (Chi Square, Kolmogorov-Smirnoff), tests of randomness (Runs).

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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EDPS

97

College Major Forum[LINK \(http://bulletin.unl.edu/courses/EDPS/97\)](http://bulletin.unl.edu/courses/EDPS/97)

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B), [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

[EDPS 97 \(http://bulletin.unl.edu/courses/EDPS/97\)](http://bulletin.unl.edu/courses/EDPS/97) is Pass/No Pass only.

This is an eight week seminar course for first semester students in the General Studies Learning Community. Students will complete activities to identify interests, research majors that match their interests and complete a

Credit Hours:	0
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Course Format:	Lecture
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Course Delivery:	Classroom
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"Guided Professional Shadowing" experience to gain first-hand knowledge about a career of their choice.

EDPS

970

Theory and Methods of Educational Measurement

Crosslisted as *SRAM 970*

[LINK \(http://bulletin.unl.edu/courses/EDPS/970\)](http://bulletin.unl.edu/courses/EDPS/970)

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) and [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870); [EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/SRAM/941\)](http://bulletin.unl.edu/courses/SRAM/941); or equivalent

Presentation of various measurement theories and concepts, including classical true-score theory, reliability and validity, test construction, item response theory, test equating, test bias, and criterion-referenced tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

971

Structural Equation Modeling

Crosslisted as *SRAM 971*

[LINK \(http://bulletin.unl.edu/courses/EDPS/971\)](http://bulletin.unl.edu/courses/EDPS/971)

Prereqs:

[EDPS/SRAM 942 \(http://bulletin.unl.edu/courses/SRAM/942\)](http://bulletin.unl.edu/courses/SRAM/942) and [970 \(http://bulletin.unl.edu/courses/SRAM/970\)](http://bulletin.unl.edu/courses/SRAM/970); or equivalent

Introduction to the techniques of path analysis, confirmatory factor analysis, and structural equation modeling with emphasis on the set-up and interpretation of different models using the LISREL program. Model testing and evaluation, goodness-of-fit indices, violations of assumptions, specification searches, and power analyses.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

972

Multivariate Analysis

Crosslisted as *SRAM 972*

[LINK \(http://bulletin.unl.edu/courses/EDPS/972\)](http://bulletin.unl.edu/courses/EDPS/972)

Prereqs:

[EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/SRAM/941\)](http://bulletin.unl.edu/courses/SRAM/941) and [942 \(http://bulletin.unl.edu/courses/SRAM/942\)](http://bulletin.unl.edu/courses/SRAM/942)

Techniques of multivariate analyses, including multivariate analysis of variance and covariance, multivariate multiple regression, multigroup discriminant analysis, canonical analysis, repeated measures (Multivariate model), and time series. Mathematical models presented and analyzed. Instruction complemented by appropriate statistical software packages.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

973A

Evaluation Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A)

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Theories and strategies of evaluation examined within the context of society at large and educational and human service programs in particular. Key evaluation models examined as they relate to judgments and decisions about programs. Methodological, social, and political issues in evaluation which pertain equally to an educational program or a human service agency.

Credit Hours:	2-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDPS

973B

Evaluation Practicum

[LINK \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Prereqs:

[EDPS 973A \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A) or permission

Actual supervised evaluation of a program or project.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDPS

974

Guidance and Counseling in Schools

[LINK \(http://bulletin.unl.edu/courses/EDPS/974\)](http://bulletin.unl.edu/courses/EDPS/974)

Survey of elementary, middle and secondary school comprehensive models of guidance. Ingredients of effective helping relationships with students in schools. Analysis of school violence, risk assessment models, multicultural influences, prevention models, and guidance roles of teachers/administrators.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

975

Occupations and Vocational Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/975\)](http://bulletin.unl.edu/courses/EDPS/975)

Evaluation and uses of occupational and educational information; job analysis; psychological and behavioral attributes relating to work and life-styles; occupational taxonomies; career-development theories; impact of accelerating changes on personal and social planning; investigations of value-oriented expectations as sources of work satisfaction and dissatisfaction; critical assessment of the concept of vocational choice. For counselors and educators.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

976

Advanced Counseling Psychology I: Counseling Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/EDPS/976\)](http://bulletin.unl.edu/courses/EDPS/976)

Prereqs:

Doctoral level counseling students and others by permission

This course is a prerequisite for: [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

Counseling methodology in relationship to personality theory and research. Consideration of various theories and research in relation to counseling practice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

977

Seminar in College Student Development

Crosslisted as *EDAD 980*

[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS

978

Advanced Counseling Psychology II: Research in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

Prereqs:

[EDPS 976 \(http://bulletin.unl.edu/courses/EDPS/976\)](http://bulletin.unl.edu/courses/EDPS/976); [EDUC 900A \(http://bulletin.unl.edu/courses/EDUC/900A\)](http://bulletin.unl.edu/courses/EDUC/900A) and either [EDUC 900B \(http://bulletin.unl.edu/courses/EDUC/900B\)](http://bulletin.unl.edu/courses/EDUC/900B) or [900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K)

Research strategies appropriate for counseling psychology. Identification of researchable problem and completion of research proposal including literature review, design, and proposed data analysis procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

980

Item Response Theory

[LINK \(http://bulletin.unl.edu/courses/EDPS/980\)](http://bulletin.unl.edu/courses/EDPS/980)

Prereqs:

Credit Hours:	3
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EDPS 870 (<http://bulletin.unl.edu/courses/EDPS/870>) and 970 (<http://bulletin.unl.edu/courses/EDPS/970>); or permission

Principles of item response theory (IRT) and its application to a variety of issues in educational and psychological measurement. Theoretical foundations of IRT discussed along with its assumptions and varied applications. Experience using IRT calibration and scoring computer software.

Campus:	
Course Delivery:	Classroom

EDPS

981

School Practice in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/981\)](http://bulletin.unl.edu/courses/EDPS/981)

Prereqs:
by permission of course instructor

Supervised practice in local school districts related to academic, social, behavioral and emotional disorders of children and adolescents.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	8
Course Format:	Field, Lab, Lecture
Campus:	
Course Delivery:	Classroom

EDPS

982

Clinical Practice in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/982\)](http://bulletin.unl.edu/courses/EDPS/982)

Prereqs:
by permission of course instructor

Supervised clinical practice related to academic, social, behavioral and emotional disorders of children and adolescents. Parent and family treatment and behavior interventions emphasized.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	16
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

983

Community Practice in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/983\)](http://bulletin.unl.edu/courses/EDPS/983)

Prereqs:
Doctoral standing in professional psychology program and permission

Supervised clinical experience working with children, adolescents and families in a variety of school and community settings.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	16
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

984

Ethics and Ethical Decision Making in Counseling and Education

[LINK \(http://bulletin.unl.edu/courses/EDPS/984\)](http://bulletin.unl.edu/courses/EDPS/984)

Ethical principles in the practice of counseling. Application of ethical guidelines and development of ethical decision-making models relevant to school and mental health contents.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

985

Couple and Family Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/985\)](http://bulletin.unl.edu/courses/EDPS/985)

Prereqs:
EDPS *866 or equivalent

Credit Hours:	3
Course Format:	Lecture 3

Couple and family systems and change strategies. Active, brief forms of couple and family counseling and enrichment formats.

Campus:
Course Delivery: Classroom

EDPS
987

Developmental Perspectives on Gender and Sexuality in Counseling [LINK \(http://bulletin.unl.edu/courses/EDPS/987\)](http://bulletin.unl.edu/courses/EDPS/987)

Issues related to gender and sexuality in the process of counseling and psychotherapy. Developmental issues related to gender differences, gender bias, gender identity, gender discrimination, and gender-based disorders. Feminist and affirmative therapy techniques.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

EDPS
989

Psychology of Reading [LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)

Crosslisted as *TEAC 989*

Prereqs:
TEAC *811 or 841 or SPED 886
<http://bulletin.unl.edu/courses/SPED/886>

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDPS
990

Workshop Seminar [LINK \(http://bulletin.unl.edu/courses/EDPS/990\)](http://bulletin.unl.edu/courses/EDPS/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:
Course Delivery: Classroom

EDPS
991

Seminar in Educational Psychology and Measurements [LINK \(http://bulletin.unl.edu/courses/EDPS/991\)](http://bulletin.unl.edu/courses/EDPS/991)

Prereqs:
Permission

Credit Hours: 1-12
Max credits per degree: 12
Course Format: Lecture
Campus:
Course Delivery: Classroom

EDPS
993

Workshop Seminar [LINK \(http://bulletin.unl.edu/courses/EDPS/993\)](http://bulletin.unl.edu/courses/EDPS/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:
Course Delivery: Classroom

EDPS
995

Doctoral Seminar [LINK \(http://bulletin.unl.edu/courses/EDPS/995\)](http://bulletin.unl.edu/courses/EDPS/995)

Prereqs:
Permission

EDPS 995 (<http://bulletin.unl.edu/courses/EDPS/995>) is intended primarily for EDPS doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are

Credit Hours: 3-4
Max credits per degree: 18
Campus:
Course Delivery: Classroom

immersed in outcome-based scholarly activities with a faculty mentor.

Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

EDPS
996A **Research Other Than Thesis**

[LINK \(http://bulletin.unl.edu/courses/EDPS/996A\)](http://bulletin.unl.edu/courses/EDPS/996A)

Independent operational research under faculty supervision.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS
996B **Readings in Educational Psychology**

[LINK \(http://bulletin.unl.edu/courses/EDPS/996B\)](http://bulletin.unl.edu/courses/EDPS/996B)

Prereqs:
Permission

Readings on selected problems in educational psychology.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS
997A **Practicum in Counseling**

[LINK \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Prereqs:
Masters admission in educational psychology or permission of counseling area, EDPS *866

This course is a prerequisite for: [EDPS 997B \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B),
[EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Parallel: [EDPS 964 \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964). Supervised laboratory clinic-based experiences in counseling.

Credit Hours:	2-4
Campus:	
Course Delivery:	Classroom

EDPS
997B **Field Placement in Counseling**

[LINK \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B)

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Supervised field experiences in school counseling, college student personnel, and community social service agencies.

Credit Hours:	2-4
Campus:	
Course Delivery:	Classroom

EDPS
997D **Practicum in Behavior Management Technologies**

[LINK \(http://bulletin.unl.edu/courses/EDPS/997D\)](http://bulletin.unl.edu/courses/EDPS/997D)

Prereqs:
[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863) and permission

Supervised practicum in the design, implementation, evaluation, and reporting of various behavior modification technologies for individuals and groups; social systems engineering.

Credit Hours:	3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS
997E **Practicum in Counselor Supervision and Consultation**

[LINK \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

997E

Prereqs:

EDPS 997G (<http://bulletin.unl.edu/courses/EDPS/997G>) or equivalent

Supervised counseling supervision and consultation experience emphasizing process methods and evaluation.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

EDPS
997G **Advanced Practicum in Counseling**

[LINK \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Prereqs:

EDPS 997A (<http://bulletin.unl.edu/courses/EDPS/997A>) and permission

This course is a prerequisite for: [EDPS 997E \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Supervised counseling experience in university, schools, and community agencies.

Credit Hours:	2-4
Campus:	
Course Delivery:	Classroom

EDPS
997J **Advanced Practicum in Gifted Education**

Crosslisted as *SPEED 997J*

[LINK \(http://bulletin.unl.edu/courses/EDPS/997J\)](http://bulletin.unl.edu/courses/EDPS/997J)

Prereqs:

Permission

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
997K **Supervision in School Psychology**

[LINK \(http://bulletin.unl.edu/courses/EDPS/997K\)](http://bulletin.unl.edu/courses/EDPS/997K)

Prereqs:

Doctoral standing in professional psychology program and permission.

Supervised experience in supervising graduate students in practicum settings. Refinement of consultation, assessment, diagnosis, and treatment skills.

Credit Hours:	3-4
Max credits per semester:	8
Max credits per degree:	8
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS
999 **Doctoral Dissertation**

[LINK \(http://bulletin.unl.edu/courses/EDPS/999\)](http://bulletin.unl.edu/courses/EDPS/999)

Prereqs:

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

PSYC
471/871 **Human Sexuality and Society**

Crosslisted as *SOCI 471/871, EDPS 471/871, CYAF 471/871*

[LINK \(http://bulletin.unl.edu/courses/PSYC/471\)](http://bulletin.unl.edu/courses/PSYC/471)

Prereqs:

Junior standing and 12 hrs in one of the departments in which the course is listed.

Open to advanced students planning careers in the professions in which

Credit Hours:	3
Course Delivery:	Classroom

knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.).

Interdisciplinary approach to the study of human sexuality in terms of the psychological, social, cultural, anthropological, legal, historical, and physical characteristics of individual sexuality and sex in society.

SPED

892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or parallel; [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC

930

Sociological/Anthropological Research Methods in Education

Crosslisted as *EDPS 930, CYAF 930, NUTR 930*

[LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1-3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1-3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1-3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1-3 cr, max 3)
- J. Hermeneutic Traditions in Education (1-3 cr, max 3)
- K. Quantitative Research Traditions in Education (1-3 cr, max 3)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

Ω

Courses for SPED (SPED)

EDAD

855

Teaching Learners to Learn

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

856

Supervising Special Education

Crosslisted as *SPED 856*

[LINK \(http://bulletin.unl.edu/courses/EDAD/856\)](http://bulletin.unl.edu/courses/EDAD/856)

For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

857

Special Education Administration

Crosslisted as *SPED 857*

[LINK \(http://bulletin.unl.edu/courses/EDAD/857\)](http://bulletin.unl.edu/courses/EDAD/857)

857

Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
858 **Special Education Law**

Crosslisted as *SPED 858*

[LINK \(http://bulletin.unl.edu/courses/EDAD/858\)](http://bulletin.unl.edu/courses/EDAD/858)

Body of law that pertains to the organization, administration, and implementation of special education programs in PreK-12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
997J **Advanced Practicum in Gifted Education**

Crosslisted as *SPED 997J*

[LINK \(http://bulletin.unl.edu/courses/EDPS/997J\)](http://bulletin.unl.edu/courses/EDPS/997J)

Prereqs:
Permission

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
884 **Speech and Language Development of the Hearing Impaired**

Crosslisted as *SPED 884*

[LINK \(http://bulletin.unl.edu/courses/SLPA/884\)](http://bulletin.unl.edu/courses/SLPA/884)

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA
956 **Language Study of Teachers of Deaf and Hard of Hearing (DHH)**

Crosslisted as *SPED 956*

[LINK \(http://bulletin.unl.edu/courses/SLPA/956\)](http://bulletin.unl.edu/courses/SLPA/956)

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
400/800 **Characteristics of Exceptional Persons**

[LINK \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A), [SPED 809 \(http://bulletin.unl.edu/courses/SPED/809\)](http://bulletin.unl.edu/courses/SPED/809), [SPED 843 \(http://bulletin.unl.edu/courses/SPED/843\)](http://bulletin.unl.edu/courses/SPED/843)

Credit Hours:	3
Course Delivery:	Classroom

Etiology, growth and development, and characteristics of children and youth who deviate from the norm.

SPED

Accommodating Exceptional Learners in the Elementary School Classroom [LINK \(http://bulletin.unl.edu/courses/SPED/401A\)](http://bulletin.unl.edu/courses/SPED/401A)**401A/801A****Prereqs:**

Admission to the Teacher Education Program; EDPS 362 (<http://bulletin.unl.edu/courses/EDPS/362>); **TEAC 195** (<http://bulletin.unl.edu/courses/TEAC/195>); **one methods course; or permission.**

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the elementary school.

Credit Hours:	3
Course Delivery:	Classroom

SPED

Accommodating Exceptional Learners in the Secondary School Classroom [LINK \(http://bulletin.unl.edu/courses/SPED/401B\)](http://bulletin.unl.edu/courses/SPED/401B)**401B/801B****Prereqs:**

Admission to the Teacher Education Program; EDPS 362 (<http://bulletin.unl.edu/courses/EDPS/362>); **TEAC 195** (<http://bulletin.unl.edu/courses/TEAC/195>); **one methods course; or permission.**

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the secondary school.

Credit Hours:	3
Course Delivery:	Classroom

SPED

Code-based Reading Instruction [LINK \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)**405/805****Prereqs:**

Parallel SPED 405A (<http://bulletin.unl.edu/courses/SPED/405A>)/ **805A** (<http://bulletin.unl.edu/courses/SPED/805A>).

This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

Direct, systematic, multi-sensory techniques for teaching reading, writing and spelling to students who have severe reading problems.

Credit Hours:	1-3
Max credits per semester:	6
Course Format:	Lecture
Course Delivery:	Classroom

SPED

Reading Center Practicum I [LINK \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A)**405A/805A****Prereqs:**

Permission.

This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

SPED 405A (<http://bulletin.unl.edu/courses/SPED/405A>)/ **805A** (<http://bulletin.unl.edu/courses/SPED/805A>) *requires two hours per week in a Reading Center.*

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, lesson planning and teaching using direct instruction, code-based instructional strategies.

Credit Hours:	1-3
Max credits per semester:	3
Course Format:	Field
Course Delivery:	Classroom

SPED

Reading and Writing Disabilities: Adolescents [LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)**406/806**

Crosslisted as *TEAC 806*

Prereqs:

Credit Hours:	2
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SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/**800** (<http://bulletin.unl.edu/courses/SPED/800>), **SPED 412** (<http://bulletin.unl.edu/courses/SPED/412>)/**812** (<http://bulletin.unl.edu/courses/SPED/812>), and **(TEAC 441)** (<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Parallel **SPED 406A** (<http://bulletin.unl.edu/courses/SPED/406A>)/**806A** (<http://bulletin.unl.edu/courses/SPED/806A>).

This course is a prerequisite for: **SPED 406** (<http://bulletin.unl.edu/courses/SPED/406>), **SPED 406A** (<http://bulletin.unl.edu/courses/SPED/406A>)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Course Format:	Lecture 2
Course Delivery:	Classroom

SPED **406A/806A** **Reading Center Practicum II**

Crosslisted as *TEAC 806A*

[LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/**800** (<http://bulletin.unl.edu/courses/SPED/800>), **412** (<http://bulletin.unl.edu/courses/SPED/412>)/**812** (<http://bulletin.unl.edu/courses/SPED/812>), and **(TEAC 441)** (<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Taken parallel with **SPED 406** (<http://bulletin.unl.edu/courses/SPED/406>)/**806** (<http://bulletin.unl.edu/courses/SPED/806>).

This course is a prerequisite for: **SPED 406** (<http://bulletin.unl.edu/courses/SPED/406>)

SPED 406A (<http://bulletin.unl.edu/courses/SPED/406A>)/**806A** (<http://bulletin.unl.edu/courses/SPED/806A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

SPED **407/807** **Teaching Students with Disabilities in the Secondary School**

[LINK \(http://bulletin.unl.edu/courses/SPED/407\)](http://bulletin.unl.edu/courses/SPED/407)

Prereqs:
SPED 201 (<http://bulletin.unl.edu/courses/SPED/201>) or **400** (<http://bulletin.unl.edu/courses/SPED/400>)/**800** (<http://bulletin.unl.edu/courses/SPED/800>).

This course is a prerequisite for: **SPED 408** (<http://bulletin.unl.edu/courses/SPED/408>)

Information about the mildly/moderately disabled secondary-level student; including characteristics, assessment, models for programs, social skill training, behavior management, working with parents, and curriculum modification.

Credit Hours:	3
Course Delivery:	Classroom

SPED **408/808** **Issues in Secondary Programs for Students with Mild Disabilities**

[LINK \(http://bulletin.unl.edu/courses/SPED/408\)](http://bulletin.unl.edu/courses/SPED/408)

Prereqs:
Special Education Professional Semester and **SPED 407** (<http://bulletin.unl.edu/courses/SPED/407>).

Issues in secondary education for students with mild disabilities based on current literature and needs of individual students.

Credit Hours:	3
Course Delivery:	Classroom

SPED **Assessment Techniques for Diverse Learners**

[LINK \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412)

412/812

Prereqs:

Sophomore standing; [SPED 201](http://bulletin.unl.edu/courses/SPED/201) (<http://bulletin.unl.edu/courses/SPED/201>) and [303](http://bulletin.unl.edu/courses/SPED/303) (<http://bulletin.unl.edu/courses/SPED/303>).

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>), [SPED 415](http://bulletin.unl.edu/courses/SPED/415) (<http://bulletin.unl.edu/courses/SPED/415>)

The role of general education teachers in the primary purposes of assessment of learners with diverse needs. Knowledge and experience with interpreting norm-referenced test information as related to planning educational programs. Use of assessment information for instructional planning and evaluation. Testing accommodations and classroom grading.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

SPED

414/814

Instructional Methods for Students with Diverse Needs

[LINK \(http://bulletin.unl.edu/courses/SPED/414\)](http://bulletin.unl.edu/courses/SPED/414)

Prereqs:

Sophomore standing; [SPED 201](http://bulletin.unl.edu/courses/SPED/201) (<http://bulletin.unl.edu/courses/SPED/201>) and [303](http://bulletin.unl.edu/courses/SPED/303) (<http://bulletin.unl.edu/courses/SPED/303>).

This course is a prerequisite for: [SPED 415](http://bulletin.unl.edu/courses/SPED/415) (<http://bulletin.unl.edu/courses/SPED/415>)

Instructional methods and accommodations for special education and general education teachers necessary to work successfully with students with disabilities or who are at-risk for academic failure. Curriculum modification, classroom management, strategy instruction, and instructional modifications for content areas.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

SPED

415/815

Reading and Writing Disabilities: Elementary Students

[LINK \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

Prereqs:

[SPED 201](http://bulletin.unl.edu/courses/SPED/201) (<http://bulletin.unl.edu/courses/SPED/201>), [TEAC 311](http://bulletin.unl.edu/courses/TEAC/311) (<http://bulletin.unl.edu/courses/TEAC/311>), [TEAC 313](http://bulletin.unl.edu/courses/TEAC/313) (<http://bulletin.unl.edu/courses/TEAC/313>) for elementary education majors; [SPED 201](http://bulletin.unl.edu/courses/SPED/201) (<http://bulletin.unl.edu/courses/SPED/201>), [SPED 412](http://bulletin.unl.edu/courses/SPED/412) (<http://bulletin.unl.edu/courses/SPED/412>), and [SPED 414](http://bulletin.unl.edu/courses/SPED/414) (<http://bulletin.unl.edu/courses/SPED/414>) (or equivalent) for SPED majors. **Must be taken with: [SPED 415A](http://bulletin.unl.edu/courses/SPED/415A) (<http://bulletin.unl.edu/courses/SPED/415A>)/[815A](http://bulletin.unl.edu/courses/SPED/815A) (<http://bulletin.unl.edu/courses/SPED/815A>).**

This course is a prerequisite for: [SPED 415](http://bulletin.unl.edu/courses/SPED/415) (<http://bulletin.unl.edu/courses/SPED/415>)

Theory and techniques for assessing and teaching early literacy skills in small groups and one-on-one for children who struggle with literacy.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED

436/836

Career Education for the Special Needs Student

[LINK \(http://bulletin.unl.edu/courses/SPED/436\)](http://bulletin.unl.edu/courses/SPED/436)

Prereqs:

[SPED 434](http://bulletin.unl.edu/courses/SPED/434) (<http://bulletin.unl.edu/courses/SPED/434>)/[834](http://bulletin.unl.edu/courses/SPED/834) (<http://bulletin.unl.edu/courses/SPED/834>) or permission.

Philosophical and practical base of career education as it relates to special needs students. Career education units developed for infusion into subject areas.

Credit Hours:	3
Course Delivery:	Classroom

SPED

Medically Fragile infants[LINK \(http://bulletin.unl.edu/courses/SPED/463\)](http://bulletin.unl.edu/courses/SPED/463)**463/863****Prereqs:**

Major in Special Education, Speech–language Pathology or Child Youth and Family Studies. Senior status or permission of instructor.

Unique needs, family–coping strategies, specialized medical staff and various health care settings for chronically ill infants, toddlers and preschool age children. Overview of etiology, characteristics and developmental implications of selected medical conditions related to developmental disabilities.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Web

SPED

Psychology and Sociology of Deafness[LINK \(http://bulletin.unl.edu/courses/SPED/472\)](http://bulletin.unl.edu/courses/SPED/472)**472/872**

Education of the hearing impaired including history of, professional roles in, and educational programming within this field. Social/psychological theories as related to the hearing impaired. Patterns of social/emotional development, psychological characteristics, issues of family stress and social adaptation and discussion of counseling techniques.

Credit Hours:	3
Course Delivery:	Classroom

SPED

Educating Students with Intellectual Impairments & Developmental Disabilities[LINK \(http://bulletin.unl.edu/courses/SPED/480\)](http://bulletin.unl.edu/courses/SPED/480)**480/880**

This course is a prerequisite for: [SPED 881 \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)

Concepts related to history, definitions, identification, etiology, and assessment of students with intellectual impairments and developmental disabilities. Examine attitudes, assumptions, and stereotypes concerning persons with intellectual impairments and other developmental disabilities. Instructional methods, adaptations and teaming to provide individualized interventions and include students in least restrictive environments/general education settings. Applied assignments will be conducted in field experience and student teaching.

Credit Hours:	3
Course Delivery:	Classroom, Web

SPED

Independent Study in Special Education[LINK \(http://bulletin.unl.edu/courses/SPED/495\)](http://bulletin.unl.edu/courses/SPED/495)**495/895****Prereqs:**

Prior arrangements with faculty member and permission.

Special research or reading project under direction of a staff member in the department.

Credit Hours:	1–3
Course Delivery:	Classroom

SPED

Directed Field Experience[LINK \(http://bulletin.unl.edu/courses/SPED/496\)](http://bulletin.unl.edu/courses/SPED/496)**496/896****Prereqs:**

Permission.

Pass/No Pass only for SPED 496 (http://bulletin.unl.edu/courses/SPED/496) section. SPED 896 (http://bulletin.unl.edu/courses/SPED/896) is graded.

E. Field Experience: General Special Education (1–6 cr, max 12) M. Field Experience: Mild/Moderate (1–6 cr, max 12) Y. Field Experience: Inclusion (1–6 cr, max 12)

Credit Hours:	1–6
Max credits per semester:	12
Course Format:	Field
Course Delivery:	Classroom

SPED

Directed Field Experience: Inclusion[LINK \(http://bulletin.unl.edu/courses/SPED/496Y\)](http://bulletin.unl.edu/courses/SPED/496Y)

496Y/896Y

Prereqs:
Permission.

Pass/No Pass only for SPED 496 (<http://bulletin.unl.edu/courses/SPED/496>) section. SPED 896 (<http://bulletin.unl.edu/courses/SPED/896>) is graded.

Credit Hours:	1-6
Max credits per semester:	12
Course Format:	Field
Course Delivery:	Classroom

SPED
802

Advanced Assessment Techniques

[LINK \(http://bulletin.unl.edu/courses/SPED/802\)](http://bulletin.unl.edu/courses/SPED/802)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) or equivalent; or permission

Comprehensive study of criterion-referenced and normative-referenced assessment instruments used by school resource personnel.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
803

Effective Instruction for Learners with Special Needs

[LINK \(http://bulletin.unl.edu/courses/SPED/803\)](http://bulletin.unl.edu/courses/SPED/803)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) and *802; or permission

Interaction of classroom-based assessment and effective instructional strategies for use with individual and group formats. Development of individual education plans, curriculum analysis, delivery of instruction, curriculum-based measurement, and specific and generic instructional strategies.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
804

Managing Challenging Behavior

[LINK \(http://bulletin.unl.edu/courses/SPED/804\)](http://bulletin.unl.edu/courses/SPED/804)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *802, *803; or permission

Functional approaches that can be used by teachers and mental health practitioners for assessing, preventing, and managing children's challenging behavior. Basics of applied behavior analysis, functional analyses of behavior, individual- and group-oriented interventions, self-management training, and strategies for promoting generalization.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
809

Autism Spectrum Disorders (ASDs): Effective Assessment and Intervention

[LINK \(http://bulletin.unl.edu/courses/SPED/809\)](http://bulletin.unl.edu/courses/SPED/809)

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/800 (<http://bulletin.unl.edu/courses/SPED/800>) or equivalent

SPED 809 (<http://bulletin.unl.edu/courses/SPED/809>) requires observation in schools and applied assignments.

Designed for educators of children and youth with Autism Spectrum Disorders (ASDs) in school settings. Assessment strategies to identify characteristics of ASDs focused on individual needs and strengths-based outcomes. Knowledge and skills regarding evidence-based practices and individualized educational programs.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

810**Autism Spectrum Disorders (ASDs): Methods and Program Planning** ([LINK \(http://bulletin.unl.edu/courses/SPED/810\)](http://bulletin.unl.edu/courses/SPED/810))**Prereqs:**
SPED *809 or equivalent*Majors in severe disabilities must parallel with SPED *896P (1 cr). SPED *810 requires observations in schools and applied assignments.*

Planning, implementing, and evaluating effective education for individuals with Autism Spectrum Disorders (ASDs). Uses an ecological approach to assess present levels of performance and individual characteristics. Apply assessment outcomes to develop functional outcomes, to select instructional strategies, and utilize empirically-based interventions.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

820**Mathematics Instruction for Diverse Learners**[LINK \(http://bulletin.unl.edu/courses/SPED/820\)](http://bulletin.unl.edu/courses/SPED/820)**Prereqs:**
SPED 201 (<http://bulletin.unl.edu/courses/SPED/201>) or 400 (<http://bulletin.unl.edu/courses/SPED/400>) or 800 (<http://bulletin.unl.edu/courses/SPED/800>)*SPED *820 and associated practicum is designed to meet professional standards (i.e., Council for Exceptional Children, Teacher Education Accreditation Council) for teachers in the area of instruction for diverse learners.*

Supplemental basic skills and concepts instruction for diverse learners within a response to intervention models and on mathematics instruction. Selection, delivery, and evaluation of standard protocol and individualized interventions to diverse learners.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

824**Functional Behavioral Assessment**[LINK \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824)**Prereqs:**
SPED 303 (<http://bulletin.unl.edu/courses/SPED/303>) or equivalent. Parallel SPED 824A (<http://bulletin.unl.edu/courses/SPED/824A>).

This course is a prerequisite for: SPED 824 (<http://bulletin.unl.edu/courses/SPED/824>), SPED 824A (<http://bulletin.unl.edu/courses/SPED/824A>)

Functional behavioral assessments (FBAs) and development of behavior intervention plans (BIPs) based on the assessments. Contextual and curriculum manipulations, and replacement behavior training.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

824A**Practicum in Functional Behavioral Assessment**[LINK \(http://bulletin.unl.edu/courses/SPED/824A\)](http://bulletin.unl.edu/courses/SPED/824A)**Prereqs:**
SPED 303 (<http://bulletin.unl.edu/courses/SPED/303>) or approved equivalent. Parallel SPED 824 (<http://bulletin.unl.edu/courses/SPED/824>).

This course is a prerequisite for: SPED 824 (<http://bulletin.unl.edu/courses/SPED/824>)

Opportunities to engage in the activities and practice the skills associated with SPED 824 (<http://bulletin.unl.edu/courses/SPED/824>). Culmination of the practicum is performing a complete functional behavioral assessment and developing a behavior intervention plan for a student who displays challenging behaviors.

Credit Hours:	2
Course Format:	Field
Campus:	
Course Delivery:	Classroom

SPED

Behavioral Systems and Interventions[LINK \(http://bulletin.unl.edu/courses/SPED/833\)](http://bulletin.unl.edu/courses/SPED/833)

833

Prereqs:
SPED 813 (<http://bulletin.unl.edu/courses/SPED/813>) or equivalent

Three-tier models for encouraging and maintaining students' appropriate behaviors. Evaluation and implementation of interventions at the school-wide, classroom and/or small group, and individual levels. Presentation of different models i.e., Response to Intervention (RtI) and School-Wide Positive Behavior Support (SWPBS).

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
834

Introduction to Special Vocational Needs

[LINK \(http://bulletin.unl.edu/courses/SPED/834\)](http://bulletin.unl.edu/courses/SPED/834)

Foundational course emphasizing the characteristics and identification of special needs learners in vocational settings. Determines needs, interests, and abilities of these students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
841

Emotional and Behavioral Disorders

[LINK \(http://bulletin.unl.edu/courses/SPED/841\)](http://bulletin.unl.edu/courses/SPED/841)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) or permission

Etiology, theories and assessment of child and adolescent emotional and behavioral disorders. Addresses issues of definitions and classification (DSM-IV and special education) or deviant behavior and psychopathology, as well as an overview of service delivery systems in education and mental health.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
843

Characteristics of Emotional and Learning Disorders

[LINK \(http://bulletin.unl.edu/courses/SPED/843\)](http://bulletin.unl.edu/courses/SPED/843)

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/800 (<http://bulletin.unl.edu/courses/SPED/800>)

Learning, academic, behavioral, social-emotional and language characteristics of students who are classified as having disabilities for purposes of special education. Definitions, classification systems, assessment and verification criteria, and medications for students with learning and emotional disabilities.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
846

Foundations of Visual Impairment: Programs and Services for Individuals with Visual Impairments

[LINK \(http://bulletin.unl.edu/courses/SPED/846\)](http://bulletin.unl.edu/courses/SPED/846)

Prereqs:
Admission to visually impaired program; hold or concurrently earn subject/field endorsement

Current educational programs and services for children with visual impairments, as well as children with multiple disabilities. History of educational services, developmental characteristics, psycho-social aspects, history of legislation, and grade I Braille.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
847

Introduction to Eye Anatomy of Students with Visual Impairments

[LINK \(http://bulletin.unl.edu/courses/SPED/847\)](http://bulletin.unl.edu/courses/SPED/847)

Prereqs:
SPED *846 or permission

Structure and function of the visual system, conditions that effect visual ability, and the functional and environmental implications of low vision. Strategies for enhancing visual ability in children with visual impairments and children who have additional disabilities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

849

Braille Codes and Material Adaptations for Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/849>

Prereqs:
SPED *846 and *847, or permission

Basic skills in literary Braille transcription and codes. Acquire competence in reading and writing Braille and using the Perkins braillewriter and slate/stylus.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

851

Intermediate Braille Codes and Instructional Material Adaptations for Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/851>

Prereqs:
SPED *846, *847, and *849

Advanced skills in Nemeth (mathematics code) and/or Literary code. Basic activities in braille formatting, foreign language, music and identification of braille technology devices and resources.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

852

Instructional Methods for Teachers of Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/852>

Prereqs:
SPED *846, *847, *849, and *851

Methods and materials for educating children who are totally blind or have low vision, including students with multiple impairments. Practical skills in selecting, designing, and/or modifying materials for content area subjects: mathematics, science, social studies, creative arts, foreign language, and other subjects.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

852A

Applied Technology Methods for Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/852A>

Prereqs:
SPED *846 and *847, or equivalents

Theory and skill development in the selection and use of technology for students with visual impairments. Technology assessments, data collection, equipment feature, source of equipment, funding sources, writing technology instructional plans, and demonstration of using various equipment and technology.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

SPED

852B

Applied Instructional Methods to Teach Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/852B>

Prereqs:
SPED *846, *847, *849, *851, and *852; or equivalents

Practice using appropriate instructional methods and materials for educating

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

the blind and low vision child.

SPED
853

Orientation and Mobility Skills for Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/853>

Prereqs:
SPED *846, *847, *849, *851, and *852

Theory and applied practice in basic orientation and mobility techniques for use with students with visual impairments. Practical methods for work in concept development, orientation skills, travel skills and techniques, personal safety and independent travel. Needs of specific populations such as people with low vision and individuals with additional disabilities. Vision simulators and occluders. An introduction to the history and development of the profession.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
860

Issues in Early Childhood Special Education [LINK \(http://bulletin.unl.edu/courses/SPED/860\)](http://bulletin.unl.edu/courses/SPED/860)

Introduction to the history, philosophy, and research related to early intervention practices with children 0–5 years of age. Discussion of issues related to legal mandates, model programs, family involvement, integration, transitions, service delivery systems, teamwork and assessment for young children.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
861

Infants with Disabilities and Home Visiting [LINK \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)

Prereqs:
SPED 960 (<http://bulletin.unl.edu/courses/SPED/960>) and permission.

SPED *861 requires a practicum in home visiting.

Assessment and intervention strategies for developing appropriate early intervention programs for infants and toddlers with disabilities. Rationale and principles for conducting home-based, family-centered, and transdisciplinary services.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
862

Preschool Children with Disabilities in a Classroom [LINK \(http://bulletin.unl.edu/courses/SPED/862\)](http://bulletin.unl.edu/courses/SPED/862)

Prereqs:
An assessment and behavior management course; and permission.

SPED *862 requires an applied experience.

Selection, design and implementation of developmentally appropriate, activity-based interventions for preschool-age children with disabilities. Ecological assessments. Instructional factors, such as classroom environments, activity planning, selection, use and modification of strategies, home-school communications, and consulting to staff in inclusive settings.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
873

Teaching the Content Areas to the Hearing Impaired [LINK \(http://bulletin.unl.edu/courses/SPED/873\)](http://bulletin.unl.edu/courses/SPED/873)

SPED 873 (<http://bulletin.unl.edu/courses/SPED/873>) is for all students in the hearing impaired program.

Methods for teaching content areas (science, math, and social studies) to hearing impaired students from preschool through grade 12. Adapting

Credit Hours:	3
Course Format:	Lecture 3
Campus:	

SPED **874** **Language Arts and Literacy for the Hearing Impaired**

[LINK \(http://bulletin.unl.edu/courses/SPED/874\)](http://bulletin.unl.edu/courses/SPED/874)

Assessment instruments, curricula and instructional methods for developing language and literacy in classrooms for hearing impaired children, preschool through grade 12. Methods for coordinating speech and/or language and/or auditory training program in the classroom with that in the speech and/or language therapy program.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **875** **Itinerant Teaching Methods for Students who are Deaf or Hard of Hearing**

[LINK \(http://bulletin.unl.edu/courses/SPED/875\)](http://bulletin.unl.edu/courses/SPED/875)

Methods for providing services for students with hearing loss, using itinerant and consultative models. Professional and parent in-service development, team-based problem solving, curriculum based pull-out services. Ecological assessment and management of deafness related technology in inclusive settings. Supervision of interpreters and paraprofessionals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **876** **Language Development for Teachers**

[LINK \(http://bulletin.unl.edu/courses/SPED/876\)](http://bulletin.unl.edu/courses/SPED/876)

Introduction to the foundations of normal speech and language development and potential difficulties in both early stages and in the classroom. Analysis of child language samples. Strategies for explaining language development to parents and professional colleagues.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

SPED **881** **Methods for Students with Intellectual and Severe Disabilities**

[LINK \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)

Prereqs:
[SPED 480 \(http://bulletin.unl.edu/courses/SPED/480/880\)](http://bulletin.unl.edu/courses/SPED/480/880)
[880 \(http://bulletin.unl.edu/courses/SPED/880\)](http://bulletin.unl.edu/courses/SPED/880)

SPED 881 (http://bulletin.unl.edu/courses/SPED/881) requires observations in schools and applied assignments.

Planning, implementing, and evaluating effective longitudinal education for individuals with intellectual impairments and severe disabilities. Knowledge and skills regarding best practices within inclusive education settings for these learners emphasizing an ecological and functional model that addresses useful skills in current and future environments.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **882** **Specialized Instruction for Students with Severe and Multiple Disabilities**

[LINK \(http://bulletin.unl.edu/courses/SPED/882\)](http://bulletin.unl.edu/courses/SPED/882)

Prereqs:
SPED *881 for the Severely/Multihandicapped endorsement program or SPED *862 for Preschool Handicapped endorsement program; and permission. Majors in severe disabilities must parallel with SPED 896P (http://bulletin.unl.edu/courses/SPED/896P) (1 cr).

This course is a prerequisite for: [SPED 981 \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

*SPED *882 requires observations in schools and applied assignments.*

Selection, design, and implementation of best practice instruction for students with severe disabilities, multiple disabilities, or deaf-blindness.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
886

Assessment, Evaluation, and Instruction of

Crosslisted as *TEAC 886*

[LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)

This course is a prerequisite for: [EDPS 989 \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)

*TEAC/SPED *886 includes case study and planning for special student populations.*

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

- A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.
- B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED
890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/890\)](http://bulletin.unl.edu/courses/SPED/890)

Refer to Workshop Seminars in Education under the “Education” section of this bulletin.

Campus:	
Course Delivery:	Classroom

SPED
892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or parallel; [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED
893

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/893\)](http://bulletin.unl.edu/courses/SPED/893)

Refer to Workshop Seminars in Education under the “Education” section of this bulletin.

Campus:	
Course Delivery:	Classroom

SPED
897

Student Teaching: Exceptional Learners

[LINK \(http://bulletin.unl.edu/courses/SPED/897\)](http://bulletin.unl.edu/courses/SPED/897)

Prereqs:

Permission

Laboratory and teaching experience in the area(s) of specialization.

- A. Mainstream (1–12 cr)
- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented (EDPS *897J)
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments
- Y. Inclusion
- Z. Multicultural Education

Credit Hours:	1–9
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

SPED

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/SPED/899\)](http://bulletin.unl.edu/courses/SPED/899)

899

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	1-10
Campus:	
Course Delivery:	Classroom

SPED

907**Seminar in Special Education**[LINK \(http://bulletin.unl.edu/courses/SPED/907\)](http://bulletin.unl.edu/courses/SPED/907)

Prereqs:
Permission

B. Behavior Disorders
 D. Deaf/Hard of Hearing
 E. General Special Education
 J. Gifted/Talented
 L. Learning Disabilities
 M. Mildly/Moderate Disabilities
 P. Severe Disabilities
 Q. Early Childhood Special Education
 V. Visual Impairments

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SPED

908**Resource Consultation Services**[LINK \(http://bulletin.unl.edu/courses/SPED/908\)](http://bulletin.unl.edu/courses/SPED/908)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), and one of the following: *831, *851, *861, *881; or permission

Roles and functions of school resource personnel in serving as educational consultants to regular school staff.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

932**Cognitive Strategy Instruction**[LINK \(http://bulletin.unl.edu/courses/SPED/932\)](http://bulletin.unl.edu/courses/SPED/932)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *803, and *831 or permission

How to implement cognitive strategy instruction with students learning difficulties. Practical model which allows students to successfully teach cognitive strategies. Metacognition, attribution training, and attention deficit disorders.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

942**Strategic Approaches for EBD**[LINK \(http://bulletin.unl.edu/courses/SPED/942\)](http://bulletin.unl.edu/courses/SPED/942)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *804, and *841; or permission

Strategic therapy techniques for assessment and treatment of EBD.
 A. Special Topics in EBD (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED

960**Family and School Collaboration in Special Education**[LINK \(http://bulletin.unl.edu/courses/SPED/960\)](http://bulletin.unl.edu/courses/SPED/960)

Prereqs:
Professional experience or completion of one practicum and/or field experience with young children (birth to age 5) or other individuals ages 5 to 21 years who have disabilities

This course is a prerequisite for: [SPED 861 \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)

Functions and interactions of both family and education systems. Impact of having a child with a disability on the normal and stressed family system. Promote family-professional partnerships in assessment and intervention for the child and/or student with an IFSP/IEP. Communication skills are reviewed and practiced for effective teaming among educators and for interviewing, consulting, collaborating and coaching with family members and other community team members.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SPED
980

Assessment of Students with Severe, Sensory, and Developmental Disabilities [LINK \(http://bulletin.unl.edu/courses/SPED/980\)](http://bulletin.unl.edu/courses/SPED/980)

Prereqs:
SPED *881 and *882; and permission

This course is a prerequisite for: [SPED 987E \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Designed to meet the needs of educators who conduct assessment of students with low incidence disabilities in school settings. Strategies emphasize assessing capabilities and needs in relationship to valued life outcomes. Processes of instructional outcomes. Some assessment conducted in schools and community settings. Learning outcomes individualized to match special education certification program.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

SPED
981

Functional Assessment and Behavioral Support for Students with Severe Developmental Disabilities [LINK \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

Prereqs:
SPED 882 (<http://bulletin.unl.edu/courses/SPED/882>) and permission. Majors in severe disabilities must parallel with SPED 896P (<http://bulletin.unl.edu/courses/SPED/896P>) (1 cr).

SPED 981 (http://bulletin.unl.edu/courses/SPED/981) requires observation in schools and applied assignments.

Assessment and intervention strategies for developing positive behavior support for students with severe disabilities or developmental disabilities who have challenging behavior. Rationale and principles for using an educative approach, functional behavior analysis, and a variety of individualized ecological and curricular interventions. Process of assessment conducted in school settings.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

SPED
987E

Seminar in Special Education [LINK \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Prereqs:
SPED 980 (<http://bulletin.unl.edu/courses/SPED/980>) and 981 (<http://bulletin.unl.edu/courses/SPED/981>)

Credit Hours: 1-12

Campus:

Course Delivery: Classroom

SPED
990

Workshop Seminar [LINK \(http://bulletin.unl.edu/courses/SPED/990\)](http://bulletin.unl.edu/courses/SPED/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12

Campus:

Course Delivery: Classroom

SPED

995**Doctoral Seminar**[LINK \(http://bulletin.unl.edu/courses/SPED/995\)](http://bulletin.unl.edu/courses/SPED/995)**Prereqs:**
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

SPED

996A**Research Other Than Thesis**[LINK \(http://bulletin.unl.edu/courses/SPED/996A\)](http://bulletin.unl.edu/courses/SPED/996A)

(1-12, max 12) Independent operational research under faculty supervision.

Campus:	
Course Delivery:	Classroom

SPED

996B**Readings in Special Education**[LINK \(http://bulletin.unl.edu/courses/SPED/996B\)](http://bulletin.unl.edu/courses/SPED/996B)**Prereqs:**
Permission

(1-12, max 12) Readings on selected problems in special education.

Campus:	
Course Delivery:	Classroom

SPED

997E**Resource Teacher Externship**[LINK \(http://bulletin.unl.edu/courses/SPED/997E\)](http://bulletin.unl.edu/courses/SPED/997E)**Prereqs:**
SPED *802, *803

Extensive practicum experience in school settings for individuals preparing to serve as school resource teachers and consultants.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

SPED

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/SPED/999\)](http://bulletin.unl.edu/courses/SPED/999)**Prereqs:**
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Ω

Courses for SLPA (SLPA)

CYAF

891**Special Topics in Human Sciences**Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMTD 891*[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SLPA

Audiology for Educators of the Deaf or Hard of Hearing[LINK \(http://bulletin.unl.edu/courses/SLPA/450\)](http://bulletin.unl.edu/courses/SLPA/450)**450/850**

Anatomy and physiology of hearing; components of adequate evaluation for placement and educational planning; diagnosis using audiogram, functional and communication assessment; stimulation and utilization of residual hearing; and management of assistive and/or augmentative devices.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Web

SLPA

Normal Language Development During School Years[LINK \(http://bulletin.unl.edu/courses/SLPA/452\)](http://bulletin.unl.edu/courses/SLPA/452)**452/852**

Normal syntactic, semantic, and pragmatic language development in school-age children and youth. Complex syntax, semantic development, pragmatic development, using language to learn, language-literacy relations, and abstract language development.

Credit Hours:	3
Course Delivery:	Classroom

SLPA

Research Methodology in Speech-Language Pathology and Audiology[LINK \(http://bulletin.unl.edu/courses/SLPA/454\)](http://bulletin.unl.edu/courses/SLPA/454)**454/854**

Prereqs:
Speech-language pathology and audiology major.

Introduction to research principles, methods, and design. Survey and critique of research in special education and communication disorders.

Credit Hours:	3
Course Delivery:	Classroom

SLPA

Language Disorders: Preschool Level[LINK \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)**461/861**

Prereqs:
Parallel [SLPA 461L \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)/[861L \(http://bulletin.unl.edu/courses/SLPA/861L\)](http://bulletin.unl.edu/courses/SLPA/861L).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461), [SLPA 461L \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)

Characteristics of language impaired preschool children and the nature of their disorders. Introduction to principles of assessment and treatment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

SLPA

Language Disorders: Preschool Level Lab[LINK \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)**461L/861L**

Prereqs:
Parallel with [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)/[861 \(http://bulletin.unl.edu/courses/SLPA/861\)](http://bulletin.unl.edu/courses/SLPA/861).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

Practical application of language assessment and intervention in preschool children with language disorders.

Credit Hours:	1
Course Format:	Lab
Course Delivery:	Classroom

SLPA

Augmentative Communication[LINK \(http://bulletin.unl.edu/courses/SLPA/486\)](http://bulletin.unl.edu/courses/SLPA/486)**486/886**

Speech pathology students must register for 3 cr only; special education students may register for 2-3

Introduction to the augmentative communication options for persons unable

Credit Hours:	2-3
Course Delivery:	Classroom

to speak or write because of physical, language, or cognitive disability.

SLPA

488/888

Linguistic Needs of Bilingual and Culturally Different Students

[LINK \(http://bulletin.unl.edu/courses/SLPA/488\)](http://bulletin.unl.edu/courses/SLPA/488)

Prereqs:

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [251 \(http://bulletin.unl.edu/courses/SLPA/251\)](http://bulletin.unl.edu/courses/SLPA/251) or permission.

Theoretical and applied information about situational factors which have an impact on spoken and written language; addresses how individual differences due to gender, handicapping conditions, socio-economic status, and cultural-ethnic background contribute to diversity in communication patterns and often act as a barrier to successful interactions in learning and social settings.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	9 [?]

SLPA

496/896

Readings and Research in Speech-Language Pathology and Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/496\)](http://bulletin.unl.edu/courses/SLPA/496)

Prereqs:

Permission.

Credit Hours:	1-3
Course Delivery:	Classroom

SLPA

851

Clinical Phonology: Assessment and Management

[LINK \(http://bulletin.unl.edu/courses/SLPA/851\)](http://bulletin.unl.edu/courses/SLPA/851)

Prereqs:

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [464 \(http://bulletin.unl.edu/courses/SLPA/464\)](http://bulletin.unl.edu/courses/SLPA/464) or permission

Theoretical foundations; applied clinical phonology.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

853

Neurological Foundations of Speech and Language

[LINK \(http://bulletin.unl.edu/courses/SLPA/853\)](http://bulletin.unl.edu/courses/SLPA/853)

Basic concepts of neurology, protection and blood supply of the Central Nervous System (CNS), anatomical structures of the CNS, neuromotor control of speech, cranial nerves for speech production and neuron motor disorders.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

862

Language Disorders in Special Populations

[LINK \(http://bulletin.unl.edu/courses/SLPA/862\)](http://bulletin.unl.edu/courses/SLPA/862)

Advanced information about language disorders, assessment, and intervention in various populations.

- A. Birth to Three: Communication Assessment and Intervention
- E. Preadolescents and Adolescents
- J. Severe Disabilities and Autism: Communication Assessment and Intervention
- K. Special Topics in Language Disorders

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

SLPA

863

Language Disorders in Elementary School-aged Population

[LINK \(http://bulletin.unl.edu/courses/SLPA/863\)](http://bulletin.unl.edu/courses/SLPA/863)

Advanced information about language disorders, assessment, and intervention in elementary school-aged children.

Credit Hours:	3
Course Format:	Lecture 3

Campus:	
Course Delivery:	Classroom

SLPA

865**Voice Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/865\)](http://bulletin.unl.edu/courses/SLPA/865)**Prereqs:**[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455)

Etiology and symptoms of voice disorders, procedures used in clinical evaluation, and methods and procedures used in therapy.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

884**Speech and Language Development of the Hearing Impaired**Crosslisted as *SPED 884*[LINK \(http://bulletin.unl.edu/courses/SLPA/884\)](http://bulletin.unl.edu/courses/SLPA/884)

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

885**Fluency Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/885\)](http://bulletin.unl.edu/courses/SLPA/885)

Research related to the nature, diagnosis and clinical management of stuttering is considered. Therapy models are presented along with data bearing on the efficacy of particular approaches. Specific rehabilitation procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

887**Language and Learning Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/887\)](http://bulletin.unl.edu/courses/SLPA/887)**Prereqs:**

For non-SLPA majors only

Review of prominent theories relating language to cognitive development and learning; student interaction on how varying styles and abnormal skills influence normal learning; how modifications can be made in materials content and classrooms to accommodate a child that has a language and learning disorder.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/SLPA/890\)](http://bulletin.unl.edu/courses/SLPA/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SLPA

892**Counseling and Behavior Issues in Speech Language Pathology**[LINK \(http://bulletin.unl.edu/courses/SLPA/892\)](http://bulletin.unl.edu/courses/SLPA/892)

Basic skills in counseling and behavior management as applied to the field of communication disorders. Practical, direct application to students' clinical work with individuals with a variety of communication disorders.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	

SLPA

893**Clinical Decision Making**[LINK \(http://bulletin.unl.edu/courses/SLPA/893\)](http://bulletin.unl.edu/courses/SLPA/893)

Critical Thinking skills necessary for decision-making during the assessment and treatment of individuals with communication disorders. Understanding and applying clinical processes related to the practice of speech-language pathology.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

SLPA

897**Advanced Practicum**[LINK \(http://bulletin.unl.edu/courses/SLPA/897\)](http://bulletin.unl.edu/courses/SLPA/897)

Prereqs:
Completion of the undergraduate preprofessional program

Supervised practicum experiences provided with difficult speech, language and/or hearing problems in a variety of clinical, medical, geriatric, rehabilitational and public school settings.

- A. Audiology (1-3 cr per sem)
- B. Speech/Language Pathology (1-3 cr per sem)
- E. Externship (1-3 cr per sem)
- G. Public Schools (1-3 cr per sem)
- T. Externship in Audiology (1-6 cr per sem, max 12)

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Field
Campus:	
Course Delivery:	Classroom

SLPA

898**Special Topics in Speech Pathology and Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/898\)](http://bulletin.unl.edu/courses/SLPA/898)

Prereqs:
Permission

Special topics in speech pathology and audiology.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

SLPA

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/SLPA/899\)](http://bulletin.unl.edu/courses/SLPA/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	1-10
Campus:	
Course Delivery:	Classroom

SLPA

902**Advanced Clinical Evaluation**[LINK \(http://bulletin.unl.edu/courses/SLPA/902\)](http://bulletin.unl.edu/courses/SLPA/902)

Instruction and practice in understanding, applying, and interpreting advanced clinical tests. Understanding the use of differential diagnostic tests used in assessment of peripheral and central lesions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

904**Basic Instrumentation**[LINK \(http://bulletin.unl.edu/courses/SLPA/904\)](http://bulletin.unl.edu/courses/SLPA/904)

Basic electrical theory and practical electronic information for the audiologist. Basic electrical and electronic information applicable to hearing, perception and acoustics. Basic electronics and electronic components, analog and digital circuits, transducers, calibration of audiometric

Credit Hours:	3
Course Format:	Lab, Lecture
Campus:	

SLPA

906**Advanced Clinical Assessment II**[LINK \(http://bulletin.unl.edu/courses/SLPA/906\)](http://bulletin.unl.edu/courses/SLPA/906)

Issues of professionalism and the development of best-practice models in Audiology. Relationship-centered patient care and the impact of multicultural issues on the practice of Audiology. Use of clinical decision analysis and evidence-based practice. Application to the common clinical assessment tools discussed in the "Advanced Audiological Assessment I" course.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

908**Physiological Acoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/908\)](http://bulletin.unl.edu/courses/SLPA/908)

Pneumatic/mechanical/hydraulic/electrical interfaces involved in the transduction of acoustic energy through the auditory system. Investigation of external ear biophysics, the middle ear transfer function, cochlear hydrodynamics and hydro-mechanics, and auditory biopotentials.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

910**Auditory Signal Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/910\)](http://bulletin.unl.edu/courses/SLPA/910)

Principles of signal processing relevant to tests of hearing and to theories of functioning of the auditory system. Introduction of concepts in mathematics, vibration and acoustics. Time- and frequency-domain representations of signals, digital filtering, analysis of lumped-element circuits, linear and nonlinear signal analyses, modulation theory, and the effect of noise on measurements. Applications relevant to audiology including hearing aid performance and measurements, middle-ear transmission, cochlear mechanics, and auditory-nerve firing patterns. Application of these models to understanding physiological sources of conductive and sensorineural hearing loss.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

912**Psychoacoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/912\)](http://bulletin.unl.edu/courses/SLPA/912)

Psychoacoustic aspects of audition, including psychoacoustic instrumentation, masking level differences, psychoacoustical scaling, difference limen for intensity and frequency, loudness, critical bands and critical ratios, absolute threshold measurement, differential threshold measurement, and temporal summation. Brief investigations of certain psychoacoustic phenomena.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

916**Medical Aspects of Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/916\)](http://bulletin.unl.edu/courses/SLPA/916)

Effects of, and principles of, medical management of disorders of the cochlea, retrocochlear region, and central auditory mechanism. Anatomy and physiology of the inner ear and central auditory pathways, function and physiology of the vestibule and labyrinth, and histology and biochemistry of the inner ear and ascending auditory tracts.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

918**Auditory Assessment of Infants and Children**[LINK \(http://bulletin.unl.edu/courses/SLPA/918\)](http://bulletin.unl.edu/courses/SLPA/918)

Prereqs:
SLPA 271 (<http://bulletin.unl.edu/courses/SLPA/271>) or equivalent

Development of the auditory system in infants and young children. Techniques used in differential diagnosis, and screening of auditory disorders in the pediatric population.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

920

Electrophysiological Assessment of Hearing

[LINK \(http://bulletin.unl.edu/courses/SLPA/920\)](http://bulletin.unl.edu/courses/SLPA/920)

Instrumentation and procedures for electrophysiologic evaluation of the auditory system. Procedures and special tests include Electrocochleography, Auditory Brainstem Response, Middle Latency Response, Late Cortical Response, and others.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

922

Pharmacology for Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/922\)](http://bulletin.unl.edu/courses/SLPA/922)

Introduction to pharmacological chemistry, drugs, and drug interactions. Ototoxic drugs and other drugs frequently seen in patients in audiology practice settings.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

SLPA

924

Sensory Technology and Rehabilitation for the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SLPA/924\)](http://bulletin.unl.edu/courses/SLPA/924)

Prereqs:
SLPA 271 (<http://bulletin.unl.edu/courses/SLPA/271>) or equivalent

Students will initiate and carry out directed laboratory assignments. Conventional analog hearing aids which includes: the design and operation of hearing aids, electroacoustic measurements and accompanying instrumentation, earmold and plumbing acoustics, evaluation and selection procedures (adults), orientation

Credit Hours: 4

Campus:

Course Delivery: Classroom

SLPA

926

Sensory Technology and Rehabilitation for the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SLPA/926\)](http://bulletin.unl.edu/courses/SLPA/926)

Prereqs:
SLPA 271 (<http://bulletin.unl.edu/courses/SLPA/271>) or equivalent

Students will be expected to engage in class presentations. Various assistive technologies, other than conventional analog hearing aids, utilized by persons who are deaf and hard of hearing. Technologies such as cochlear implants, tactile devices, radio frequency systems, digital hearing aids, and telephone, television and alerting devices. Information regarding pediatric amplification, counseling, and speechreading introduced.

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

SLPA

928

Hearing Conservation and Industrial Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/928\)](http://bulletin.unl.edu/courses/SLPA/928)

Theories and basic resources for participation in industrial, government, or community hearing conservation programs.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA

930**Genetics of Hearing Loss**[LINK \(http://bulletin.unl.edu/courses/SLPA/930\)](http://bulletin.unl.edu/courses/SLPA/930)

The genetic basis for hearing loss.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

932**Vestibular Assessment I**[LINK \(http://bulletin.unl.edu/courses/SLPA/932\)](http://bulletin.unl.edu/courses/SLPA/932)

Students will initiate and carry out directed laboratory assignments.

The first of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Normal anatomy and physiology of the balance and ocular motor systems, contrasted with a wide range of pathological conditions. Electronystagmography (video-nystagmography two- and three-dimensional recordings) and assessment of the otolith organs.

Credit Hours:	4
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

SLPA

934**Vestibular Assessment II**[LINK \(http://bulletin.unl.edu/courses/SLPA/934\)](http://bulletin.unl.edu/courses/SLPA/934)

The second of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Advanced techniques for patient assessment using rotational chair and posturography protocols. Techniques for full assessment in an office situation without extensive equipment. Options for treatment and management of this group of patients. Vestibular and balance rehabilitation therapy program development.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

936**Implantable Prosthetics**[LINK \(http://bulletin.unl.edu/courses/SLPA/936\)](http://bulletin.unl.edu/courses/SLPA/936)

Design, operation, candidacy, assessment, surgical procedures, fitting, verification, and rehabilitation procedures related to implantable prosthetic devices for individuals who are deaf and hard of hearing. Cochlear implants, bone anchored hearing aids, implantable middle ear devices, and auditory brainstem implants.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

938**Private Practice and/or Clinic Management**[LINK \(http://bulletin.unl.edu/courses/SLPA/938\)](http://bulletin.unl.edu/courses/SLPA/938)

Principles and procedures for starting and surviving as an independent practitioner in audiology. Practice management strategies for use in any audiological setting.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA

940**Aural Rehabilitation Across the Lifespan**[LINK \(http://bulletin.unl.edu/courses/SLPA/940\)](http://bulletin.unl.edu/courses/SLPA/940)

Habilitation (for pre-lingual deaf and hard of hearing infants and toddlers) and rehabilitation efforts for individuals of all ages who are deaf or hard of hearing.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	

SLPA

942**Seminar in Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/942\)](http://bulletin.unl.edu/courses/SLPA/942)

Research and clinical procedures; findings and implications in audiology and hearing science.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA

956**Language Study of Teachers of Deaf and Hard of Hearing (DHH)** [LINK \(http://bulletin.unl.edu/courses/SLPA/956\)](http://bulletin.unl.edu/courses/SLPA/956)Crosslisted as *SPED 956*

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SLPA

964**Speech Perception and Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/964\)](http://bulletin.unl.edu/courses/SLPA/964)**Prereqs:**

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or permission

Human and computer perception and processing of speech. The speech code and its representation in the brain, laboratory techniques for perceptual experimentation, acoustic analysis of speech, and computer synthesis of speech.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

966**Swallowing Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/966\)](http://bulletin.unl.edu/courses/SLPA/966)

Swallowing disorders of children and adults. Procedures used in assessment, diagnosis, and intervention.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA

967**Cleft Palate**[LINK \(http://bulletin.unl.edu/courses/SLPA/967\)](http://bulletin.unl.edu/courses/SLPA/967)**Prereqs:**

[SLPA 464 \(http://bulletin.unl.edu/courses/SLPA/464\)](http://bulletin.unl.edu/courses/SLPA/464) or equivalent

Communication, dental, medical, and associated problems related to cleft palate.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA

968**Motor Speech Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/968\)](http://bulletin.unl.edu/courses/SLPA/968)**Prereqs:**

SLPA *853

Motor speech disorders resulting from neuropathology of the central and peripheral nervous systems as found in cerebral palsy, Parkinsonism, and other developmental and acquired neuromotor problems of children and

Credit Hours: 2

Campus:

Course Delivery: Classroom

adults.

SLPA
980A

Seminar in Speech Physiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/980A\)](http://bulletin.unl.edu/courses/SLPA/980A)

Prereqs:

[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
980B

Seminar in Speech Acoustics

[LINK \(http://bulletin.unl.edu/courses/SLPA/980B\)](http://bulletin.unl.edu/courses/SLPA/980B)

Prereqs:

[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
981

Seminar in Speech Pathology

[LINK \(http://bulletin.unl.edu/courses/SLPA/981\)](http://bulletin.unl.edu/courses/SLPA/981)

Prereqs:

[SLPA *851, *865, 967, and/or 968](#)

Research procedures, findings and clinical implications in the following areas:

- B. Fluency Disorders (1-3 cr)
- D. Voice Disorders (1-3 cr)
- E. Motor Speech Disorder (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SLPA
983

Seminar in Language

[LINK \(http://bulletin.unl.edu/courses/SLPA/983\)](http://bulletin.unl.edu/courses/SLPA/983)

Prereqs:

[SLPA 251 \(http://bulletin.unl.edu/courses/SLPA/251\)](http://bulletin.unl.edu/courses/SLPA/251) or [852 \(http://bulletin.unl.edu/courses/SLPA/852\)](http://bulletin.unl.edu/courses/SLPA/852) or permission

Research procedures, findings and implications in language pathology and treatment in the areas of development, evaluation and habilitation.

- A. Child Language Development and Disorders (1-3 cr)
- B. Adolescent/Adult Language Development and Disorders (1-3 cr)
- E. Augmentative/Alternative Communication (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SLPA
984

Seminar in Augmentative Communication

[LINK \(http://bulletin.unl.edu/courses/SLPA/984\)](http://bulletin.unl.edu/courses/SLPA/984)

Prereqs:

[SLPA 886 \(http://bulletin.unl.edu/courses/SLPA/886\)](http://bulletin.unl.edu/courses/SLPA/886)

Advanced seminar on research literature in the augmentative communication field.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

985**Traumatic Brain Injury**[LINK \(http://bulletin.unl.edu/courses/SLPA/985\)](http://bulletin.unl.edu/courses/SLPA/985)**Prereqs:**
SLPA *853

Assessment and treatment of child and adult cognitive and communication disorders resulting from traumatic brain injury.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

987**Aphasia in Adults**[LINK \(http://bulletin.unl.edu/courses/SLPA/987\)](http://bulletin.unl.edu/courses/SLPA/987)**Prereqs:**
SLPA *853

Adult language disorders resulting from stroke or other acquired central nervous system insult. Includes historical/theoretical development of understanding, cerebral dominance for language, classifications, rationale for diagnostic and therapeutic management, prognostic factors, agnosias and apraxia.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA

990**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/SLPA/990\)](http://bulletin.unl.edu/courses/SLPA/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SLPA

994**Doctoral Capstone Thesis**[LINK \(http://bulletin.unl.edu/courses/SLPA/994\)](http://bulletin.unl.edu/courses/SLPA/994)

Selection of the topic for this project should take place no later than the summer of the third year by consultation with the project adviser. Enrollment in SLPA 994 (<http://bulletin.unl.edu/courses/SLPA/994>) is required during each semester that the project is underway. Capstone experience prepared in the form of a research project paper containing a significant treatment of some aspect of audiology.

Credit Hours:	3
Max credits per degree:	9
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

SLPA

995**Doctoral Seminar**[LINK \(http://bulletin.unl.edu/courses/SLPA/995\)](http://bulletin.unl.edu/courses/SLPA/995)**Prereqs:**
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

SLPA

996**Research Problems Other Than Thesis**[LINK \(http://bulletin.unl.edu/courses/SLPA/996\)](http://bulletin.unl.edu/courses/SLPA/996)**Prereqs:**
Permission

Credit Hours:	1-9
Campus:	

SLPA

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/SLPA/999\)](http://bulletin.unl.edu/courses/SLPA/999)**Prereqs:**

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Q

Courses for TEAC (TEAC)

BIOC

869**Chemistry for Secondary School Classrooms**[LINK \(http://bulletin.unl.edu/courses/BIOC/869\)](http://bulletin.unl.edu/courses/BIOC/869)Crosslisted as *BIOC 883, CHEM 869, TEAC 869*

Credit in this course will not count towards a graduate degree in chemistry or biochemistry or biological sciences. Course taught via World Wide Web. Chemistry content for high school teachers organized according to the National Science Education Standards. Individual course coverage includes: content, integration with other sciences and mathematics, graphing calculators, probe-experiments, simulations, at-home experiments, teaching materials, and industrial applications related to the title description.

- A. Structure and Properties of Matter: Water and Solutions (1 cr)
- B. Structure and Properties of Matter: Periodicity (1 cr)
- D. Structure and Properties of Matter: Bonding and Structure (1 cr)
- E. Structure and Properties of Matter: Carbon Chemistry and Polymers (1 cr)
- J. Structure and Properties of Matter: Gases and the Atmosphere (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1 cr)
- L. Structure and Properties of Matter: Condensed States and Materials Science (1 cr)
- M. Interactions of Matter and Energy (1 cr)
- N. Chemistry of Life Processes: DNA (1 cr)
- P. Chemistry of Life Processes: Energy and Metabolism (1 cr)
- Q. Chemical Reactions: Equations and their Consequences (1 cr)
- R. Chemical Reactions: Acids and Bases (1 cr)
- T. Chemical Reactions: Kinetics (1 cr)
- U. Chemical Reactions: Oxidation, Reduction and Electrochemistry (1 cr)
- V. Equilibrium: Unifying Theme (1 cr)
- W. Conservation of Energy and the Increase in Disorder: Thermodynamics (1 cr)
- Y. Inquiry and the Nature of Science: Analysis and Instrumentation (1 cr)
- Z. Structure of Atoms: Nuclear Chemistry (1 cr)

Credit Hours:	1
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

CHEM

874**Topics in Chemical Pedagogy**[LINK \(http://bulletin.unl.edu/courses/CHEM/874\)](http://bulletin.unl.edu/courses/CHEM/874)Crosslisted as *TEAC 874*

A maximum combined total of 12 hours from TEAC *869 and/or *874 may be counted toward a masters degree. Credit in this course will not count towards a graduate degree in chemistry. Courses are Web-based. Topical chemistry content for high school teachers organized according to the National Science Education Standards.

- A. Green Chemistry (2-3 cr)
- D. Demonstrations for High School Chemistry (1-3 cr)
- E. Experiments for High School Chemistry (1-3 cr)
- J. Developing a Safety Culture (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1-3 cr)
- L. Addressing Misconceptions (1-3 cr)
- M. Mathematics Integration ([MATH 874M](http://bulletin.unl.edu/courses/MATH/874M)) (<http://bulletin.unl.edu/courses/MATH/874M>) (2-3 cr) May be counted towards the MAT and MScT degrees in mathematics and statistics, not the MA, MS, or PhD.
- N. Inquiry Strategies (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

P. Chemistry in the Workplace (1–3 cr)
Y. Graphing Calculator Activities (2–3 cr)

CHEM
875

Chemical Pedagogy in the High School Laboratory

Crosslisted as *TEAC 875*

[LINK \(http://bulletin.unl.edu/courses/CHEM/875\)](http://bulletin.unl.edu/courses/CHEM/875)

Credit in this course will not count towards a graduate degree in chemistry. Laboratory-based courses addressing specific issues connected with teaching laboratory work in high school chemistry programs.

- A. Small-scale Experiments (1–3 cr)
- B. Technology Integration (3–6 cr)
- E. Inquiry Experiments (1–3 cr)
- K. At-home Experiments (1–3 cr)
- P. Probe Experiments (1–3 cr)
- T. Traditional Experiments (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

COMM
427/827

Instructional Communication

Crosslisted as *TEAC 429/829*

[LINK \(http://bulletin.unl.edu/courses/COMM/427\)](http://bulletin.unl.edu/courses/COMM/427)

Prereqs:

Junior/senior standing; College of Education and Human Sciences major; [COMM 200](http://bulletin.unl.edu/courses/COMM/200) (<http://bulletin.unl.edu/courses/COMM/200>), [201](http://bulletin.unl.edu/courses/COMM/201) (<http://bulletin.unl.edu/courses/COMM/201>); or permission.

Advanced introductory course in instructional communication, focusing on understanding variables associated with the communication process in instructional settings and managing instructional communication more effectively. Provides an experimental and a cognitive understanding of the role of communication in the instructional process.

Credit Hours:	3
Course Delivery:	Classroom

CYAF
814

Evaluation in Career and Technical Education

Crosslisted as *TEAC 814*

[LINK \(http://bulletin.unl.edu/courses/CYAF/814\)](http://bulletin.unl.edu/courses/CYAF/814)

Two aspects of evaluation in the classroom: 1) selection and use of evaluation in assessing learning, and 2) consideration of conceptual and methodological issues in conducting evaluation to determine and account for the effectiveness of programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
891

Special Topics in Human Sciences

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMFD 891*

[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDAD
855

Teaching Learners to Learn

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

948**Instructional Leadership: Emerging Trends and Practices**[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)Crosslisted as *TEAC 948*

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

991**Field Studies in Education**[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)Crosslisted as *NUTR 991, TEAC 991*

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS

935**Seminar in Qualitative Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)Crosslisted as *TEAC 935*

Prereqs:
EDUC 900K (<http://bulletin.unl.edu/courses/EDUC/900K>) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

989**Psychology of Reading**[LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)Crosslisted as *TEAC 989*

Prereqs:
TEAC *811 or 841 or SPED 886
(<http://bulletin.unl.edu/courses/SPED/886>)

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL

895A**Nebraska Writing Project Internship**[LINK \(http://bulletin.unl.edu/courses/ENGL/895A\)](http://bulletin.unl.edu/courses/ENGL/895A)Crosslisted as *TEAC 895A*

Prereqs:
Permission

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL

992**Nebraska Humanities Project**[LINK \(http://bulletin.unl.edu/courses/ENGL/992\)](http://bulletin.unl.edu/courses/ENGL/992)Crosslisted as *TEAC 992*

Credit Hours:	1-24
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Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL
992B **Place Conscious Teaching**

Crosslisted as *TEAC 992B*

[LINK \(http://bulletin.unl.edu/courses/ENGL/992B\)](http://bulletin.unl.edu/courses/ENGL/992B)

Theory and practice of teaching writing, literature, and rhetoric in connection with local place, region, and community.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MUED
450/850 **American Cultural Perspectives through Popular Music and Guitar**

Crosslisted as *MUNM 450, TEAC 450/850*

[LINK \(http://bulletin.unl.edu/courses/MUED/450\)](http://bulletin.unl.edu/courses/MUED/450)

Exploration of the historical, social and cultural context of late 19th and 20th century America through learning to play jazz and popular music on the guitar to provide an authentic, performance-based encounter in music.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
ACE Outcomes:	5 [?] , 7 [?]
Groups:	Music Education (MUED)

MUED
473/873 **Approaches to Middle School General Music**

Crosslisted as *TEAC 873*

[LINK \(http://bulletin.unl.edu/courses/MUED/473\)](http://bulletin.unl.edu/courses/MUED/473)

Prereqs:
[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or permission.

For prospective new and experienced general music/middle school teachers. Characteristics of middle school students, materials, methodology, guitar and recorder techniques, and curriculum development.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Education (MUED)

MUED
845 **Historical and Philosophical Foundations of American Music Education**

Crosslisted as *TEAC 845*

[LINK \(http://bulletin.unl.edu/courses/MUED/845\)](http://bulletin.unl.edu/courses/MUED/845)

Prereqs:
Undergraduate degree in MUED.

MUED 845 (http://bulletin.unl.edu/courses/MUED/845) is required for a graduate degree in music education.

Historical overview of American music education practices from the Singing School tradition to today. Major philosophical influences in American music education, writings regarding aesthetic education, equity, ethical practice, gender, meaning, and profundity. The writings of Stublely, Reimer, Mark, Gary, Hylton, Richmond and others are considered.

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture
Course Delivery:	Classroom

SPED
406/806 **Reading and Writing Disabilities: Adolescents**

Crosslisted as *TEAC 806*

[LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

Prereqs:
[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400) / 800

Credit Hours:	2
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<http://bulletin.unl.edu/courses/SPED/800>), [SPED 412](http://bulletin.unl.edu/courses/SPED/800) (<http://bulletin.unl.edu/courses/SPED/412>)/[812](http://bulletin.unl.edu/courses/SPED/812) (<http://bulletin.unl.edu/courses/SPED/812>), and ([TEAC 441](http://bulletin.unl.edu/courses/TEAC/441) (<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Parallel [SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>)/[806A](http://bulletin.unl.edu/courses/SPED/806A) (<http://bulletin.unl.edu/courses/SPED/806A>).

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>), [SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Course Format: Lecture 2

Course Delivery: Classroom

SPED
406A/806A **Reading Center Practicum II**

Crosslisted as *TEAC 806A*

[LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Prereqs:

[SPED 400](http://bulletin.unl.edu/courses/SPED/400) (<http://bulletin.unl.edu/courses/SPED/400>)/[800](http://bulletin.unl.edu/courses/SPED/800) (<http://bulletin.unl.edu/courses/SPED/800>), [412](http://bulletin.unl.edu/courses/SPED/412) (<http://bulletin.unl.edu/courses/SPED/412>)/[812](http://bulletin.unl.edu/courses/SPED/812) (<http://bulletin.unl.edu/courses/SPED/812>), and ([TEAC 441](http://bulletin.unl.edu/courses/TEAC/441) (<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Taken parallel with [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>)/[806](http://bulletin.unl.edu/courses/SPED/806) (<http://bulletin.unl.edu/courses/SPED/806>).

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>)

[SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>)/[806A](http://bulletin.unl.edu/courses/SPED/806A) (<http://bulletin.unl.edu/courses/SPED/806A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

Credit Hours: 2

Course Format: Lab 2

Course Delivery: Classroom

SPED
886 **Assessment, Evaluation, and Instruction of**

Crosslisted as *TEAC 886*

[LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)

This course is a prerequisite for: [EDPS 989](http://bulletin.unl.edu/courses/EDPS/989) (<http://bulletin.unl.edu/courses/EDPS/989>)

*TEAC/SPED *886 includes case study and planning for special student populations.*

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

- A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.
- B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours: 1–3

Max credits per degree: 6

Course Format: Lecture

Campus:

Course Delivery: Classroom

SPED
892 **Special Topics in Education**

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:

[EDPS 859](http://bulletin.unl.edu/courses/EDPS/859) (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; [EDPS 859](http://bulletin.unl.edu/courses/EDPS/859) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours: 1–3

Max credits per degree: 12

Course Format: Lecture

Campus:

Course Delivery: Classroom

TEAC
402/802 **Contemporary Children's Literature: Principles and Practices**

[LINK \(http://bulletin.unl.edu/courses/TEAC/402\)](http://bulletin.unl.edu/courses/TEAC/402)

Prereqs:
TEAC 302 (<http://bulletin.unl.edu/courses/TEAC/302>) and successful completion of student teaching or permission.

Contemporary literature for children, all forms and genres; development of meaningful and creative learning activities for children; professional readings and research related to children's literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC **Improvement of Instruction in School Mathematics**
408/808

[LINK \(http://bulletin.unl.edu/courses/TEAC/408\)](http://bulletin.unl.edu/courses/TEAC/408)

Techniques, plans, and procedures for improving instruction in mathematics. Analysis of current instructional and supervisory practices. Evaluation of research and instructional materials. A. Primary: K-3 (3 cr) B. Elementary: 4-6 (3 cr) E. Secondary: 7-12 (3 cr) J. Special Topics (3 cr)

Credit Hours:	3
Max credits per degree:	12
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC **Reading Processes and Practices**
411/811

[LINK \(http://bulletin.unl.edu/courses/TEAC/411\)](http://bulletin.unl.edu/courses/TEAC/411)

Overview of reading processes and programs with attention to strategies for comprehension and word identification, approaches, and materials. A. Teaching Reading (3 cr) B. Special Topics in Reading (1-6 cr)

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Studies in Teaching English as a Second Language**
413/813

[LINK \(http://bulletin.unl.edu/courses/TEAC/413\)](http://bulletin.unl.edu/courses/TEAC/413)

Preparation for teaching K-12 learners whose language of nurture is not English. A. ESL: Acquisition (1-3 cr) B. ESL: Teaching and Curriculum (1-3 cr) D. ESL: Assessment (1-3 cr) E. Special Topics in Teaching ESL (1-6 cr)

Credit Hours:	1-15
Max credits per degree:	15
Course Delivery:	Classroom

TEAC **Teaching English Language Learners (ELLs) in Content Areas**
413M/813M

[LINK \(http://bulletin.unl.edu/courses/TEAC/413M\)](http://bulletin.unl.edu/courses/TEAC/413M)

TEAC 413M (<http://bulletin.unl.edu/courses/TEAC/413M>)/813M (<http://bulletin.unl.edu/courses/TEAC/813M>) is required for English Language Learner (ELL) certification.

Theory and pedagogy in the teaching of English Language Learners (ELLs) in course content areas at all levels of K-12 education. Identify and design linguistically and culturally responsive instruction for English learners in the disciplines (e.g. language arts, science, mathematics, social sciences).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC **Teaching English Overseas**
413P/413X/813P

[LINK \(http://bulletin.unl.edu/courses/TEAC/413P\)](http://bulletin.unl.edu/courses/TEAC/413P)

Methodologies for teaching English to speakers of other languages (TESOL) in international settings.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC **Inclusive Early Childhood Methods**
416/816

[LINK \(http://bulletin.unl.edu/courses/TEAC/416\)](http://bulletin.unl.edu/courses/TEAC/416)

Prereqs:
Admission to the Inclusive Early Childhood Teacher Education Program;
FACS 270 (<http://bulletin.unl.edu/courses/FACS/270>), **270L** (<http://bulletin.unl.edu/courses/FACS/270L>), **374** (<http://bulletin.unl.edu/courses/FACS/374>), and **374L** (<http://bulletin.unl.edu/courses/FACS/374L>).

Credit Hours:	3
Max credits per semester:	9
Course Format:	Lecture
Course Delivery:	Classroom

The creation and practice of developmentally appropriate instruction in curricular areas for K to 3rd grades. Role of the teacher and/or facilitator in relationship to the primary curriculum and learning environment. A. Literacy Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D](http://bulletin.unl.edu/courses/TEAC/397D) (<http://bulletin.unl.edu/courses/TEAC/397D>). B. Social Studies and Science Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D](http://bulletin.unl.edu/courses/TEAC/397D) (<http://bulletin.unl.edu/courses/TEAC/397D>). D. Mathematics Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel Math 200.

TEAC **Teaching Writing in the Elementary School**
418/818

[LINK \(http://bulletin.unl.edu/courses/TEAC/418\)](http://bulletin.unl.edu/courses/TEAC/418)

Learning and teaching of writing with consideration given to developmental factors of children and adolescents.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Teaching Foreign Language in the Elementary School**
420/820

[LINK \(http://bulletin.unl.edu/courses/TEAC/420\)](http://bulletin.unl.edu/courses/TEAC/420)

Theory, research and practice of most recent foreign language models and strategies.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Coordination in Occupational Training Programs**
425/825 Crosslisted as *EDAD 825*

[LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours:	1-3
Course Delivery:	Classroom

TEAC **Introduction to Philosophy of Education**
430/830

[LINK \(http://bulletin.unl.edu/courses/TEAC/430\)](http://bulletin.unl.edu/courses/TEAC/430)

Open to advanced undergraduates and graduate students

Fundamental ideas and skills that students can use to begin to form personal philosophical perspectives on education that can be justified intellectually, practically, and ethically. Using case studies of realistic school situations and the theoretical work of a range of writers in education, students explore conceptions of teaching, learning, curriculum, and the relationship between school and society.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Studies in the Foundations of Education**
431/831

[LINK \(http://bulletin.unl.edu/courses/TEAC/431\)](http://bulletin.unl.edu/courses/TEAC/431)

Social and cultural analyses of curriculum, teaching, and education policy from disciplinary perspectives. A. The Anthropology of Education (3 cr) B. The History of Education (3 cr) E. The Sociology of Education (3 cr) J. Special Topics (3 cr)

Credit Hours:	3
Max credits per degree:	12
Course Delivery:	Classroom

TEAC

Higher Education in America[LINK \(http://bulletin.unl.edu/courses/TEAC/432\)](http://bulletin.unl.edu/courses/TEAC/432)**432/832****Prereqs:**
12 hrs education.

History and development of America's colleges and universities and recent trends and problems in higher education.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Comparative Education[LINK \(http://bulletin.unl.edu/courses/TEAC/433\)](http://bulletin.unl.edu/courses/TEAC/433)**433/833**

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

Comparative Education Survey[LINK \(http://bulletin.unl.edu/courses/TEAC/433A\)](http://bulletin.unl.edu/courses/TEAC/433A)**433A/833A**

Comparative Education investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'A' format is a survey course that considers examples from all over the world. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours:	3
Max credits per semester:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

Comparative Education: Special Topics/Travel Study[LINK \(http://bulletin.unl.edu/courses/TEAC/433B\)](http://bulletin.unl.edu/courses/TEAC/433B)**433B/833B****Prereqs:**
None*This course could be taken more than once for additional credits assuming the student uses it for travel-study to different places. For example, a student could not visit South Korea twice with the same professor teaching the same syllabus, but could visit South Korea once (as one 3-hour course) and South Africa (as another 3-hour course).*

Course investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours:	3
Max credits per semester:	3
Max credits per degree:	9
Course Format:	Field 3
Course Delivery:	Classroom

TEAC

Ethics and Education[LINK \(http://bulletin.unl.edu/courses/TEAC/434\)](http://bulletin.unl.edu/courses/TEAC/434)**434/834***Open to advanced undergraduates and graduate students*

Basic issues in ethics and education. Using theoretical material and case studies, students consider such ideas and issues as the nature of moral judgment, equality, justice, caring, and respect for persons, and discuss how educators might respond in ethically justifiable ways to difficult situations they may encounter.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Latin American Education[LINK \(http://bulletin.unl.edu/courses/TEAC/436\)](http://bulletin.unl.edu/courses/TEAC/436)

436/836

Prereqs:
12 hours education, social sciences, or Latin American Studies; or permission.

Survey of contemporary practices and problems in Latin American education, with special emphasis on the role of education in the national development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Linguistics for the Classroom School Teacher**

438/838

[LINK \(http://bulletin.unl.edu/courses/TEAC/438\)](http://bulletin.unl.edu/courses/TEAC/438)

Prereqs:
Admission to the Teacher Education Program.

Analysis of various aspects of linguistic study including dialects, usage, modern grammar, semantics, lexicography, etc., and their application in the K-12 school English classroom. Investigation and clarification of language concepts and the development of teaching materials that can be used in the classroom.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Literature for Adolescents**

439/839

[LINK \(http://bulletin.unl.edu/courses/TEAC/439\)](http://bulletin.unl.edu/courses/TEAC/439)

Prereqs:
Admission to a Teacher Education Program.

Wide range of young adult literature available for use in schools. Critical and rhetorical tools for responding to a variety of literary texts and techniques for eliciting a wider range of responses to literature; consideration for readers aged 11-16.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Content Area Reading, Grades 4-12**

441/841

[LINK \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441)

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Simultaneous teaching of academic content and functional teaching of reading in the content areas; assessment of comprehension, vocabulary/concept attainment; analyses of text; improvement of content area learning through reading/writing development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Learning and Teaching Principles and Practices**

451/851

[LINK \(http://bulletin.unl.edu/courses/TEAC/451\)](http://bulletin.unl.edu/courses/TEAC/451)

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306 \(http://bulletin.unl.edu/courses/TEAC/306\)](http://bulletin.unl.edu/courses/TEAC/306) or [406 \(http://bulletin.unl.edu/courses/TEAC/406\)](http://bulletin.unl.edu/courses/TEAC/406)/[806 \(http://bulletin.unl.edu/courses/TEAC/806\)](http://bulletin.unl.edu/courses/TEAC/806). Investigates topics/issues impacting the teaching of art, including the theory and practice of discipline-based art education. Planning and incorporation of innovative approaches embracing the diversity of students. K. Career and Technical Education Prereq: As listed above. Procedures for writing, selecting and organizing subject matter for instruction. L. Methods of Teaching

Credit Hours:	3-4
Course Delivery:	Classroom

Information Technology (3 cr) Prereq: As listed above and [TEAC 259](http://bulletin.unl.edu/courses/TEAC/259) (<http://bulletin.unl.edu/courses/TEAC/259>); parallel [TEAC 397L](http://bulletin.unl.edu/courses/TEAC/397L) (<http://bulletin.unl.edu/courses/TEAC/397L>) or [894L](http://bulletin.unl.edu/courses/TEAC/894L) (<http://bulletin.unl.edu/courses/TEAC/894L>). Objectives, teaching materials, and methods of presentation emphasizing the organization and management of computer science instruction. [IS]N. Secondary Language Arts (3 or 4 cr) Prereq: As listed above, including [ENGL 357](http://bulletin.unl.edu/courses/ENGL/357) (<http://bulletin.unl.edu/courses/ENGL/357>), [377](http://bulletin.unl.edu/courses/ENGL/377) (<http://bulletin.unl.edu/courses/ENGL/377>); and [TEAC 438](http://bulletin.unl.edu/courses/TEAC/438) (<http://bulletin.unl.edu/courses/TEAC/438>)/[838](http://bulletin.unl.edu/courses/TEAC/838) (<http://bulletin.unl.edu/courses/TEAC/838>); and grade average of "B" (3.0) or better in subject-area. Theoretical issues in the teaching and learning of writing, language, and literature. *O. Marketing Education Prereq: As listed above and [TEAC 452K](http://bulletin.unl.edu/courses/TEAC/452K) (<http://bulletin.unl.edu/courses/TEAC/452K>). Objectives, teaching materials, selection, and organization of subject matter, and methods of instruction and evaluation in marketing. [IS]P. Secondary Mathematics Prereq: As listed above. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners. [IS]R. Secondary Modern Languages Prereq: As listed above. Investigates issues in second language learning and teaching from the perspective of proficiency: contextualized practice in reading, writing, speaking, listening, and culture. Methodological approaches, review of research, testing guidelines, accuracy, the affective and cognitive needs of students, and the incorporation of authentic materials/language. [IS]V. Secondary Science Prereq: As listed above and parallel with [TEAC 397](http://bulletin.unl.edu/courses/TEAC/397) (<http://bulletin.unl.edu/courses/TEAC/397>). Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners. [IS]W. Secondary Social Science Prereq: As listed above. Theoretical issues in teaching and learning in the individual and integrated social sciences.

TEAC

Learning and Teaching Principles and Practices: Career and Technical Education [LINK \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K)

451K/851K

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Credit Hours: 3-4

Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Procedures for writing, selecting and organizing subject matter for instruction.

TEAC

Learning and Teaching Principles and Practices: Secondary Mathematics [LINK \(http://bulletin.unl.edu/courses/TEAC/451P\)](http://bulletin.unl.edu/courses/TEAC/451P)

451P/851P

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Credit Hours: 3-4

Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners.

TEAC

Learning and Teaching Principles and Practices: [LINK \(http://bulletin.unl.edu/courses/TEAC/451V\)](http://bulletin.unl.edu/courses/TEAC/451V)

451V/851V

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better. Parallel with [TEAC 397V](http://bulletin.unl.edu/courses/TEAC/397V) (<http://bulletin.unl.edu/courses/TEAC/397V>).

Credit Hours: 3-4

Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as

interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners.

TEAC

Curriculum Principles and Practices

[LINK \(http://bulletin.unl.edu/courses/TEAC/452\)](http://bulletin.unl.edu/courses/TEAC/452)

452/852

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with 2.5 GPA or better.

Credit Hours:	2-3
Course Delivery:	Classroom

Focus on practical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306 \(http://bulletin.unl.edu/courses/TEAC/306\)](http://bulletin.unl.edu/courses/TEAC/306) or [406 \(http://bulletin.unl.edu/courses/TEAC/406\)](http://bulletin.unl.edu/courses/TEAC/406)/[806 \(http://bulletin.unl.edu/courses/TEAC/806\)](http://bulletin.unl.edu/courses/TEAC/806). Theory and research into curriculum incorporating technology, interdisciplinary approaches, active learning, and course content designed to enhance art understanding by students of diversity. J. Business Education Prereq: As listed above and [TEAC 451K \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K) and parallel with [TEAC 397 \(http://bulletin.unl.edu/courses/TEAC/397\)](http://bulletin.unl.edu/courses/TEAC/397). Objectives, teaching materials, selection and organization of subject matter, and methods of instruction and evaluation in business subjects. M. Industrial Education Prereq: As listed above and [TEAC 451K \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K) and parallel [TEAC 397M \(http://bulletin.unl.edu/courses/TEAC/397M\)](http://bulletin.unl.edu/courses/TEAC/397M). Objectives, curricula, methodology, evaluation, planning, classroom management and course organization. [IS]N. Secondary Language Arts Prereq: As listed above and parallel with [TEAC 397 \(http://bulletin.unl.edu/courses/TEAC/397\)](http://bulletin.unl.edu/courses/TEAC/397). Planning, teaching, and evaluating language arts lessons for diverse learners. P. Secondary Mathematics Prereq: As listed above and [TEAC 451P \(http://bulletin.unl.edu/courses/TEAC/451P\)](http://bulletin.unl.edu/courses/TEAC/451P)/[851P \(http://bulletin.unl.edu/courses/TEAC/851P\)](http://bulletin.unl.edu/courses/TEAC/851P) with a grade of "C+" or better. Conceptualizing the 7-12 curriculum through multimedia and active, discovery learning. [IS]R. Secondary Modern Languages Prereq: As listed above. Second-language acquisition and learning theory and their relationship to curriculum planning and development. Practice in creative language-use activities designed to build second language reading, writing, speaking, listening, and culture skills. Development of teacher as observer, reflector, and recorder of individual student needs. [IS]V. Secondary Science Prereq: As listed above and [TEAC 451V \(http://bulletin.unl.edu/courses/TEAC/451V\)](http://bulletin.unl.edu/courses/TEAC/451V)/[851V \(http://bulletin.unl.edu/courses/TEAC/851V\)](http://bulletin.unl.edu/courses/TEAC/851V). Curricular materials, including the application of technology, as they relate to classroom instruction with diverse populations. [IS]W. Secondary Social Science Prereq: As listed above. Societal diversity and its impact on the 7-12 social science curriculum, regional and national curricular trends, and emerging theory and research in social studies education.

TEAC

The Middle Level Professional Methods

[LINK \(http://bulletin.unl.edu/courses/TEAC/453\)](http://bulletin.unl.edu/courses/TEAC/453)

453/853

Prereqs:

Admission to the Teacher Education Program.

Development of competence in planning, teaching, classroom management and assessment. Covers the scope, content, and organization of curriculum and instructional materials. I. Art (2 cr) N. Language Arts (2 cr) P. Mathematics (2 cr) T. Reading (2 cr) V. Science (2 cr) W. Social Science (2 cr)

Credit Hours:	1-12
Max credits per semester:	12
Course Delivery:	Classroom

TEAC

Literature in Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/454\)](http://bulletin.unl.edu/courses/TEAC/454)

454/854

Comparative analyses of literature and the role of the reader as meaning maker in educational settings. A. Literary Response and Analysis (3 cr) B. Multiethnic Literature for Children and Adolescents (3 cr) E. Special Topics (3

Credit Hours:	3-9
Max credits per semester:	9
Course Format:	Lecture

TEAC **Teaching with Technology****480/880**[LINK \(http://bulletin.unl.edu/courses/TEAC/480\)](http://bulletin.unl.edu/courses/TEAC/480)

Survey and analysis of the application of technology to improve teaching. Research and related literature on learning, teaching and curriculum, and the critical application of technology and the development of teaching strategies. A. Survey of Instructional Technology (1-3 cr) B. Designing Instructional Technology K-12 (1-3 cr) E. Instructional Technology in Mathematics (1-3 cr) J. Instructional Technology in Language Arts (1-3 cr) K. Instructional Technology in Science (1-3 cr) L. Instructional Technology in Social Sciences (1-3 cr) M. Technology Supported Assessment and Evaluation (1-3 cr) N. Web Teaching (1-3 cr) P. Special Topics (1-3 cr)

Credit Hours: 1-3

Max credits per semester: 15

Course Delivery: Classroom

TEAC **Instructional Applications of Computers-Practicum****482/882**[LINK \(http://bulletin.unl.edu/courses/TEAC/482\)](http://bulletin.unl.edu/courses/TEAC/482)

Prereqs:
Permission.

A task-oriented practicum in instructional application of computer to provide an opportunity for repetition and/or demonstration of fundamental practice skills. Combines discussion and demonstration with supervised task-centered field experiences.

Credit Hours: 2-3

Course Delivery: Classroom

TEAC **Independent Study****495/895**[LINK \(http://bulletin.unl.edu/courses/TEAC/495\)](http://bulletin.unl.edu/courses/TEAC/495)

Credit Hours: 1-6

Course Delivery: Classroom

TEAC **Problems in Secondary Education****496/896**[LINK \(http://bulletin.unl.edu/courses/TEAC/496\)](http://bulletin.unl.edu/courses/TEAC/496)

Prereqs:
Permission.

Opportunities for experienced teachers and administrators to develop plans, procedures, or experiments directed to the improvement of the curriculum or administration of the secondary school.

Credit Hours: 1-6

Course Delivery: Classroom

TEAC **Problems in Elementary Education****498/898**[LINK \(http://bulletin.unl.edu/courses/TEAC/498\)](http://bulletin.unl.edu/courses/TEAC/498)

Prereqs:
Permission.

Opportunities to develop plans, procedures, experiments, and models directed to the improvement of elementary school education on an independent study basis.

Credit Hours: 2-3

Course Delivery: Classroom

TEAC **Inquiry into Teaching and Learning****800**[LINK \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800)

This course is a prerequisite for: [TEAC 888 \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Credit Hours: 3

Contemporary educational research from multiple theoretical perspectives.

Campus:

Course Delivery: Classroom

TEAC 801 Curriculum Inquiry

[LINK \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801)

The relationship between curriculum theory and/or research to educational practices.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC 803 Student Teaching Internship Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

Prereqs:
Parallel [TEAC 897 \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)

Analysis of school programs with attention to teacher certification, teacher/student rights/responsibilities, proper conduct of teachers, selected legal aspects of education, methods of communicating with parents and community members, and current issues.

A. Elementary (K-6) (1-2 cr) Parallel [TEAC 897A](http://bulletin.unl.edu/courses/TEAC/897A)
(<http://bulletin.unl.edu/courses/TEAC/897A>).

B. Elementary Art (1-2 cr) Parallel [TEAC 897B](http://bulletin.unl.edu/courses/TEAC/897B)
(<http://bulletin.unl.edu/courses/TEAC/897B>).

G. Elementary Foreign Language (1-2 cr) Parallel [TEAC 897G](http://bulletin.unl.edu/courses/TEAC/897G)
(<http://bulletin.unl.edu/courses/TEAC/897G>).

I. Secondary Art (1-2 cr) Parallel [TEAC 897I](http://bulletin.unl.edu/courses/TEAC/897I)
(<http://bulletin.unl.edu/courses/TEAC/897I>).

N. Secondary Language Arts (1-2 cr) Parallel [TEAC 897N](http://bulletin.unl.edu/courses/TEAC/897N)
(<http://bulletin.unl.edu/courses/TEAC/897N>).

P. Secondary Mathematics (1-2 cr) Parallel [TEAC 897P](http://bulletin.unl.edu/courses/TEAC/897P)
(<http://bulletin.unl.edu/courses/TEAC/897P>).

Q. Middle School (1-2 cr) Parallel [TEAC 897Q](http://bulletin.unl.edu/courses/TEAC/897Q)
(<http://bulletin.unl.edu/courses/TEAC/897Q>).

R. Secondary Modern Language (1-2 cr) Parallel [TEAC 897R](http://bulletin.unl.edu/courses/TEAC/897R)
(<http://bulletin.unl.edu/courses/TEAC/897R>).

V. Secondary Science (1-2 cr) Parallel [TEAC 897V](http://bulletin.unl.edu/courses/TEAC/897V)
(<http://bulletin.unl.edu/courses/TEAC/897V>).

W. Secondary Social Science (1-2 cr) Parallel [TEAC 897W](http://bulletin.unl.edu/courses/TEAC/897W)
(<http://bulletin.unl.edu/courses/TEAC/897W>).

Y. Mainstreaming (1-2 cr) Parallel [TEAC 897Y](http://bulletin.unl.edu/courses/TEAC/897Y)
(<http://bulletin.unl.edu/courses/TEAC/897Y>).

Z. Multicultural (1-2 cr) Parallel [TEAC 897Z](http://bulletin.unl.edu/courses/TEAC/897Z)
(<http://bulletin.unl.edu/courses/TEAC/897Z>).

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

TEAC 805 Advanced Teaching Strategies

Crosslisted as *ALEC 805, NUTR 806*

[LINK \(http://bulletin.unl.edu/courses/TEAC/805\)](http://bulletin.unl.edu/courses/TEAC/805)

This course is a prerequisite for: [ALEC 400 \(http://bulletin.unl.edu/courses/ALEC/400\)](http://bulletin.unl.edu/courses/ALEC/400)

Contemporary and innovative teaching strategies, emphasizing learner-centered instruction, suitable to teaching in college and postsecondary institutions, outreach programs public schools, and other settings. Students participate in active learning as they apply learning theory in practice, prepare and demonstrate teaching methods, and plan for instruction in discipline areas of their choice.

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

TEAC 812 Improvement of Instruction in Elementary School Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/812\)](http://bulletin.unl.edu/courses/TEAC/812)

Prereqs:
12 hrs education including [TEAC 315](http://bulletin.unl.edu/courses/TEAC/315) (<http://bulletin.unl.edu/courses/TEAC/315>) or permission; teaching experience or student teaching

Techniques, plans, and procedures for improving instruction in elementary school science. Current practices, issues, and trends; evaluation of instructional materials.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
813J Intercultural Communication

[LINK \(http://bulletin.unl.edu/courses/TEAC/813J\)](http://bulletin.unl.edu/courses/TEAC/813J)

Introduction to intercultural communication and the theoretical and methodological tools needed to understand the tenets and implications of intercultural communication for application in personal and professional practices. Readings will deal with misunderstandings and the impact of cultural factors on the making of meaning, as well as discrimination and the impact of unequal power relations on communication, media impact in a globalized world, language, identity and communication, and intercultural competence.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
817 Emerging Reading and Language

[LINK \(http://bulletin.unl.edu/courses/TEAC/817\)](http://bulletin.unl.edu/courses/TEAC/817)

Prereqs:
Elementary endorsement

Research, theory and practice associated with literacy development in children from birth to age 8. Language and concept development, emerging reading and writing behaviors, appropriate materials and evaluation within a holistic view teaching and learning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
822 Principles and Practices in Social Studies Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/822\)](http://bulletin.unl.edu/courses/TEAC/822)

Current issues and trends in the curriculum and teaching of social studies.
A. Special Topics (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
828 Improvement of Instruction in Industrial Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/828\)](http://bulletin.unl.edu/courses/TEAC/828)

Special contemporary curricular and teaching aspects of industrial education. Research, curriculum content, teaching strategies, and the application to the instructional setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
833 Comparative Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/833\)](http://bulletin.unl.edu/courses/TEAC/833)

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
Ethnic Minorities and American Education

835

Chronological entry of European immigrant groups into an American society during the formative years of the development of the American public school system. Record of American social and educational history is replete with examples of inter- and intra-group human conflict as each immigrant group attempted to carve out its niche in a New World setting during a period of mass migration from Europe. Historical, sociological, and psychological barriers that became inherent during a dynamic period of nation building.

[LINK \(http://bulletin.unl.edu/courses/TEAC/835\)](http://bulletin.unl.edu/courses/TEAC/835)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
840 **Culture and Schooling**

[LINK \(http://bulletin.unl.edu/courses/TEAC/840\)](http://bulletin.unl.edu/courses/TEAC/840)

Description and explanation of cultural values as they relate to education.
A. Gender (1-3 cr)
B. Gender and Science (1-3 cr)
D. Special Topics (1-6 cr)
E. Rural Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
842 **Objectives and Methods of Science Teaching**

[LINK \(http://bulletin.unl.edu/courses/TEAC/842\)](http://bulletin.unl.edu/courses/TEAC/842)

This course is a prerequisite for: [TEAC 924 \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Development of objectives, course offerings, and organization of subject matter and methods of instruction in science courses. Current national science education curriculum trends.
A. Elementary
B. Middle School
D. Secondary and Community College
E. Special Topics (1-6 cr)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC
844 **School Media Programs**

[LINK \(http://bulletin.unl.edu/courses/TEAC/844\)](http://bulletin.unl.edu/courses/TEAC/844)

Role of the media specialist as a member of the instructional team.
A. Administration (3 cr)
B. Reference (3 cr)
D. Cataloguing (3 cr)
E. Selection (3 cr)
J. Special Topics in School Media

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC
846 **Studies in Middle Level Schooling**

[LINK \(http://bulletin.unl.edu/courses/TEAC/846\)](http://bulletin.unl.edu/courses/TEAC/846)

Historical development, philosophy, and current literature of the middle school.
A. Curriculum (1-3 cr, max 3)
B. Leadership (1-3 cr, max 3)
D. Teacher-Based Advisory (1-3 cr, max 3)
E. Special Topics (1-3 cr, max 9)

Credit Hours:	1-9
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
847 **Principles of Business Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/847\)](http://bulletin.unl.edu/courses/TEAC/847)

Principles, philosophy, historical development, and emerging role of

Credit Hours:	3
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business education in America. Current issues in business education, resource development, examination of learning theories, and needs assessment.

Campus:

Course Delivery: Classroom

TEAC

848

Introduction to Curriculum Studies

[LINK \(http://bulletin.unl.edu/courses/TEAC/848\)](http://bulletin.unl.edu/courses/TEAC/848)

Historical development and philosophy of high school curricula. Review of research on schooling, curriculum trends, and school organizational structures.

- A. Elementary Schools
- B. Middle Schools
- D. Secondary Schools
- E. Special Topics in Curriculum (1–6 cr)

Credit Hours: 1–3

Campus:

Course Delivery: Classroom

TEAC

849

Studies in Assessment and Leadership for Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/849\)](http://bulletin.unl.edu/courses/TEAC/849)

Preparation for assessing K–12 learners and leading K–12 Teacher Learning Communities.

- A. Classroom Assessment (3 cr)
- B. Large-scale Assessment (3 cr)
- E. Leadership in Assessment (3 cr)
- J. Leading Classroom Assessment (3 cr)
- K. Special Topics in Assessment and Leadership for Learning (3 or 6 cr, max 6)

Credit Hours: 6

Max credits per degree: 18

Course Format: Lecture

Campus:

Course Delivery: Classroom

TEAC

857B

Nebraska Writing Project

Crosslisted as *ENGL 857B*

[LINK \(http://bulletin.unl.edu/courses/TEAC/857B\)](http://bulletin.unl.edu/courses/TEAC/857B)

Topics in writing instruction, explored via the National Writing Project Institute model, for K–12 and college teachers of writing in all curricular areas.

Credit Hours: 1–3

Course Format: Lecture

Campus:

Course Delivery: Classroom

TEAC

858

Utilization of Modern Technology

[LINK \(http://bulletin.unl.edu/courses/TEAC/858\)](http://bulletin.unl.edu/courses/TEAC/858)

Strategies of incorporating modern technology into the professional workplace; provides a thorough understanding of the operation and evaluation of integrating technology into the curriculum.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

859

Instructional Message Design

[LINK \(http://bulletin.unl.edu/courses/TEAC/859\)](http://bulletin.unl.edu/courses/TEAC/859)

Using selected principles from behavior science (perception, memory, attitudes, concepts), students analyze and design instructional messages. Systematic process for instructional development.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

860

Production and Utilization of Instructional Materials

[LINK \(http://bulletin.unl.edu/courses/TEAC/860\)](http://bulletin.unl.edu/courses/TEAC/860)

This course is meant to be taken after and in sequence with TEAC *859.

Credit Hours: 3

Unique characteristics and contributions of selected instructional media and technologies to the teaching/learning and communication processes. Students produce materials for specific instructional messages.

Campus:
Course Delivery: Classroom

TEAC
861

Education for a Pluralistic Society: Foundation and Issues

[LINK \(http://bulletin.unl.edu/courses/TEAC/861\)](http://bulletin.unl.edu/courses/TEAC/861)

Educational practices and policies for people from historically oppressed groups in the United States Foundation of multicultural education. Discussion of contemporary educational issues within the context of multicultural and cultural diversity. Critique of curricular materials and resources promoting a multicultural perspective.

Credit Hours: 3
Campus:
Course Delivery: Classroom

TEAC
881

Music in Early Childhood Education

Crosslisted as *MUED 881*

[LINK \(http://bulletin.unl.edu/courses/TEAC/881\)](http://bulletin.unl.edu/courses/TEAC/881)

Prereqs:
[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or [370 \(http://bulletin.unl.edu/courses/MUED/370\)](http://bulletin.unl.edu/courses/MUED/370) or permission

Prepares the teacher of the young child (3–8 years) in the musical skills, methodology, and materials needed to carry out a successful program of music in the public and private schools, the nursery schools, and day-care centers.

Credit Hours: 3
Campus:
Course Delivery: Classroom

TEAC
887

Effecting High School Improvement

[LINK \(http://bulletin.unl.edu/courses/TEAC/887\)](http://bulletin.unl.edu/courses/TEAC/887)

The relationships and interactions among the high school student, a teacher, and the curriculum to the issues of school district, higher education, philanthropy, state department of education, and federal involvement in high school improvement efforts. The imperative and challenges for improving high schooling for all students.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

TEAC
888

Teacher as Scholarly Practitioner

[LINK \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Prereqs:
[TEAC 800 \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800) and [801 \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801), or permission

Seminar on the principles of practitioner inquiry and development of a proposal for an inquiry project.
A. Special Topics in Inquiry

Credit Hours: 1–3
Max credits per degree: 3
Campus:
Course Delivery: Classroom

TEAC
889

Masters Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/889\)](http://bulletin.unl.edu/courses/TEAC/889)

Prereqs:
Permission

Working with a faculty mentor on either an individual or small-group basis, the student plans, conducts, and reports a summative work project.

Credit Hours: 1–3
Max credits per degree: 9
Campus:
Course Delivery: Classroom

TEAC
Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/890\)](http://bulletin.unl.edu/courses/TEAC/890)

890

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC

893**Workshop Seminar**

[LINK \(http://bulletin.unl.edu/courses/TEAC/893\)](http://bulletin.unl.edu/courses/TEAC/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC

894**Professional Practicum Experiences**

[LINK \(http://bulletin.unl.edu/courses/TEAC/894\)](http://bulletin.unl.edu/courses/TEAC/894)

Prereqs:
Admission to Teacher Education Program

TEAC *894 does not count toward the MA or MEd degree. P/N only. Guided observations and/or clinical experiences in schools and/or agencies offering programs for children/youth.

- A. Elementary (K-6) (1-10 cr)
- B. Elementary Art (1-10 cr)
- E. English as a Second Language (1-10 cr)
- G. Elementary Foreign Language (1-10 cr)
- I. Secondary Art (1-10 cr)
- J. Business Education (1-10 cr)
- L. Information Technology (1-10 cr, max 10)
- M. Industrial Education (1-10 cr)
- N. Secondary Language Arts (1-10 cr)
- O. Marketing Education (1-10 cr)
- P. Secondary Mathematics (1-10 cr)
- Q. Middle School (1-10 cr)
- R. Secondary Modern Language (1-10 cr)
- T. Reading (1-10 cr)
- V. Secondary Science (1-10 cr)
- W. Secondary Social Science (1-10 cr)
- Y. Mainstreaming (1-10 cr)
- Z. Multicultural (1-10 cr)

Credit Hours:	1-10
Max credits per degree:	10
Course Format:	Field
Campus:	
Course Delivery:	Classroom

TEAC

897**Student Teaching Internship**

[LINK \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)

Prereqs:
Admission by application only

This course is a prerequisite for: [TEAC 803 \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

(See "Admission to Student Teaching" in the UNL Undergraduate Bulletin.)

This course will not count towards the MA or MEd degree. P/N only.

Supervised teaching experience in schools.

- A. Elementary (K-6)
- B. Elementary Art
- E. English as a Second Language
- D. Elementary Physical Education
- G. Elementary Foreign Language
- I. Secondary Art
- J. Business Education
- K. Health
- M. Industrial Education
- N. Secondary Language Arts
- P. Secondary Mathematics
- Q. Middle School
- R. Secondary Modern Language
- U. Secondary Physical Education

Credit Hours:	1-10
Course Delivery:	Classroom

V. Secondary Science
W. Secondary Social Science
Y. Mainstreaming
Z. Multicultural

TEAC
899 Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/TEAC/899\)](http://bulletin.unl.edu/courses/TEAC/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

TEAC
901 Supervision and Administration in Vocational Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/901\)](http://bulletin.unl.edu/courses/TEAC/901)

For course description, see [ALEC 901](http://bulletin.unl.edu/courses/ALEC/901)
(<http://bulletin.unl.edu/courses/ALEC/901>).

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
902 Colloquium in Educational Policy and Practice

[LINK \(http://bulletin.unl.edu/courses/TEAC/902\)](http://bulletin.unl.edu/courses/TEAC/902)

Educational policy and practice and their interconnection.
A. Special Topics in Educational Policy and Practice (1- 3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

TEAC
903 Current Trends in the Education of Young Children

[LINK \(http://bulletin.unl.edu/courses/TEAC/903\)](http://bulletin.unl.edu/courses/TEAC/903)

Participation in special problems of teachers in service. Guidance, evaluations, research.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

TEAC
905 Practicum in Postsecondary Teaching

Crosslisted as *ALEC 905*

[LINK \(http://bulletin.unl.edu/courses/TEAC/905\)](http://bulletin.unl.edu/courses/TEAC/905)

Prereqs:
ALEC *805 or permission

Work with a faculty mentor in a discipline of choice and an instructional supervisor to prepare instruction and teach students in a postsecondary setting. Practicum students are assisted in arranging for the practicum and are provided consultation and feedback during the practicum. Lesson planning and reflective papers are part of the practicum experience.

Credit Hours:	1-3
Course Format:	Lab
Campus:	
Course Delivery:	Classroom

TEAC
907 Seminar in Elementary School Mathematics

[LINK \(http://bulletin.unl.edu/courses/TEAC/907\)](http://bulletin.unl.edu/courses/TEAC/907)

Prereqs:
[TEAC 808 \(http://bulletin.unl.edu/courses/TEAC/808\)](http://bulletin.unl.edu/courses/TEAC/808) or equivalent

Credit Hours:	3
Campus:	

Theories, literature, and research procedures relative to elementary mathematics education.

Course Delivery: Classroom

TEAC
908 Seminar in Teacher Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/908\)](http://bulletin.unl.edu/courses/TEAC/908)

Overview of literature and scholarship in teacher education.

- A. Supervision of Pre-service Teachers (1-3 cr)
- B. Teacher Development (3 cr)
- D. Initial Teacher Preparation (1-3 cr)
- E. Special Topics in Teacher Education (1-3 cr)

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

TEAC
911 Seminar in Elementary School Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/911\)](http://bulletin.unl.edu/courses/TEAC/911)

Prereqs:
12 hrs laboratory science including courses in both physical and biological fields; [TEAC 403 \(http://bulletin.unl.edu/courses/TEAC/403\)](http://bulletin.unl.edu/courses/TEAC/403) or [804 \(http://bulletin.unl.edu/courses/TEAC/804\)](http://bulletin.unl.edu/courses/TEAC/804) or equivalent; teaching experience

Literature which deals with research and experimentation in science for the elementary school. Aspects of the teaching and supervision of elementary school science that require investigation and research.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
920 Seminar in Curriculum and Teaching of Career and Technical Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/920\)](http://bulletin.unl.edu/courses/TEAC/920)

Current research and theory within the curriculum and teaching of career and technical education.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
921 Seminar in Literacy Studies

[LINK \(http://bulletin.unl.edu/courses/TEAC/921\)](http://bulletin.unl.edu/courses/TEAC/921)

Research in literacy and schooling.

- A. Curriculum and Teaching (3 cr)
- B. Special Topics (1-3 cr)
- D. Language, Culture, and Education (1-3 cr)

Credit Hours: 1-3

Max credits per degree: 9

Course Format: Lecture

Campus:

Course Delivery: Classroom

TEAC
922 Seminar in the Learning and Teaching of Foreign Languages

[LINK \(http://bulletin.unl.edu/courses/TEAC/922\)](http://bulletin.unl.edu/courses/TEAC/922)

Prereqs:
Undergraduate teaching major in a foreign language and teaching experience in a foreign language

Critical review and evaluation of current literature, research and theory.

- A. Reading in the Foreign Language Classroom (1-3 cr, max 3)
- B. Writing in the Foreign Language Classroom (1-3 cr, max 3)
- D. Listening in the Foreign Language Classroom (1-3 cr, max 3)
- E. Speaking in the Foreign Language Classroom (1-3 cr, max 3)
- J. Planning in the Foreign Language Classroom (1-3 cr, max 3)
- K. Technology-Enhanced Language Instruction (1-3 cr, max 3)

Credit Hours: 1-21

Max credits per degree: 21

Campus:

Course Delivery: Classroom

TEAC
923

Seminar in the Curriculum and Teaching of Secondary School Mathematics [LINK \(http://bulletin.unl.edu/courses/TEAC/923\)](http://bulletin.unl.edu/courses/TEAC/923)

Prereqs:
Undergraduate teaching major and teaching experience in mathematics

Critical evaluation of current literature, yearbooks, research, and experiments in the curriculum and teaching of mathematics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
924

Seminar in the Curriculum and Teaching of Science [LINK \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Prereqs:
Undergraduate teaching major and teaching experience in science, and TEAC 842 (<http://bulletin.unl.edu/courses/TEAC/842>) and EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>)

Exploration of current literature, yearbooks, research, and experiments in the curriculum and teaching of science.

- A. Elementary
- B. Middle School
- D. Secondary
- E. Inclusive Science Teaching
- J. Special Topics (1-6 cr)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC
925

Seminar in the Curriculum and Teaching of Social Sciences [LINK \(http://bulletin.unl.edu/courses/TEAC/925\)](http://bulletin.unl.edu/courses/TEAC/925)

Current research and literature in social sciences education.

- A. Elementary (1-3 cr)
- B. Middle School (1-3 cr)
- D. Secondary (1-3 cr)
- E. Great Plains Studies (1-3 cr)
- G. Special Topics in Social Sciences (1-3 cr)

Credit Hours:	3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
929

Seminar in Individualized Instruction for Gifted, Talented, and Creative Students [LINK \(http://bulletin.unl.edu/courses/TEAC/929\)](http://bulletin.unl.edu/courses/TEAC/929)

Nature of curricular and instructional programs and practices for gifted, talented, and creative students in elementary and secondary schools. Range of learner outcomes, identification of instructional principles, personalizing instruction for this group of learners.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
930

Sociological/Anthropological Research Methods in Education [LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Crosslisted as EDPS 930, CYAF 930, NUTR 930

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1-3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1-3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1-3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1-3 cr, max 3)
- J. Hermeneutic Traditions in Education (1-3 cr, max 3)
- K. Quantitative Research Traditions in Education (1-3 cr, max 3)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC

931**Research in the History of Education**[LINK \(http://bulletin.unl.edu/courses/TEAC/931\)](http://bulletin.unl.edu/courses/TEAC/931)

Historical research methods in education culminating in the research and writing of a historical article as publication report.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

932**Contract Studies in International Education**[LINK \(http://bulletin.unl.edu/courses/TEAC/932\)](http://bulletin.unl.edu/courses/TEAC/932)

Prereqs:
Permission

Student proposed course of studies in international education: may include field experiences, individual/group research, participation in mini-seminars, etc.

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

TEAC

936**Seminar in College Teaching**[LINK \(http://bulletin.unl.edu/courses/TEAC/936\)](http://bulletin.unl.edu/courses/TEAC/936)

Overview of teaching in post-secondary settings.

Credit Hours: 1-3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

TEAC

937**Philosophy of Science and Educational Research**[LINK \(http://bulletin.unl.edu/courses/TEAC/937\)](http://bulletin.unl.edu/courses/TEAC/937)

Major themes in philosophy of science and relates these to conceptions of research on human beings and social institutions, particularly as this is applied to schooling. Students consider such fundamental issues as whether educational research is a science, the form and purpose of educational research, and what research might imply for practice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

944**Seminar in Curriculum Studies**[LINK \(http://bulletin.unl.edu/courses/TEAC/944\)](http://bulletin.unl.edu/courses/TEAC/944)

Critical examination of issues in curriculum development with an analysis of research and literature on the subject.

- A. Curriculum as Aesthetic Text (1-3 cr)
- B. Special Topics in Curriculum (1-3 cr)
- D. Curriculum Evaluation (1-3 cr)
- E. Curriculum as Spatial Text (1-3 cr)

Credit Hours: 1-3

Max credits per degree: 15

Campus:

Course Delivery: Classroom

TEAC

946**Instructional Improvement and Decision Making**[LINK \(http://bulletin.unl.edu/courses/TEAC/946\)](http://bulletin.unl.edu/courses/TEAC/946)

Study and application of teaching models and techniques based on research, theory, and exemplary practice.

- A. Instructional Assessment
- B. Special Topics in Instruction

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

TEAC

Seminar in Education[LINK \(http://bulletin.unl.edu/courses/TEAC/949\)](http://bulletin.unl.edu/courses/TEAC/949)

949

Critical analysis of literature and research on teaching, learning, and schooling.

A. Special Topics in Education (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

 TEAC
950

Contextual Research in English/Language Arts

[LINK \(http://bulletin.unl.edu/courses/TEAC/950\)](http://bulletin.unl.edu/courses/TEAC/950)

Uses of qualitative research in English language arts; interpreting, planning, conducting, and reporting contextual research results.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

 TEAC
951

Seminar in Reading Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/951\)](http://bulletin.unl.edu/courses/TEAC/951)

Scholarship in reading education, including the nature, results and implications of past and present research and non-research and contributions of historically significant scholars in the field of reading.

A. Research in Reading Education (3 cr)

B. Special Topics (1–6 cr, 6 max)

Credit Hours:	3–9
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

 TEAC
952

Language and Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/952\)](http://bulletin.unl.edu/courses/TEAC/952)

Role that language plays in empowering and constraining children as they attempt to make sense of their world. Consideration of application of language scholarship for general instruction.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

 TEAC
953

Seminar on Writing in the Curriculum

[LINK \(http://bulletin.unl.edu/courses/TEAC/953\)](http://bulletin.unl.edu/courses/TEAC/953)

Writing development, writing instruction, and the use of writing in the content areas. Consideration of application of scholarship in writing for general learning and instruction.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

 TEAC
957B

Nebraska Writing Project

Crosslisted as *ENGL 957B*

[LINK \(http://bulletin.unl.edu/courses/TEAC/957B\)](http://bulletin.unl.edu/courses/TEAC/957B)

Summer institute for K–12 and college teachers of writing in all curricular areas, taught on the National Writing Project model.

Credit Hours:	6
Course Format:	Lecture 6
Campus:	
Course Delivery:	Classroom

 TEAC
959

Portfolio in Instructional Technology Competencies

[LINK \(http://bulletin.unl.edu/courses/TEAC/959\)](http://bulletin.unl.edu/courses/TEAC/959)

Prereqs:

Credit Hours:	1–12
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Permission

No more than six credits of [TEAC 959](http://bulletin.unl.edu/courses/TEAC/959) (<http://bulletin.unl.edu/courses/TEAC/959>) may be counted towards a masters degree. Portfolio components represent a significant contribution to the solution of an instructional problem and reflect broadly the major competencies of instructional technology: problem definition, learner analysis, media selection and message design, production, and evaluation.

Campus:	
Course Delivery:	Classroom

TEAC **960** **Topical Seminar in Instructional Technology**

[LINK \(http://bulletin.unl.edu/courses/TEAC/960\)](http://bulletin.unl.edu/courses/TEAC/960)

Prereqs:
Permission

Critical analysis of research in a delimited problem area within instructional technology (e.g., ITV, CAI, videodisc, simulations, programmed instruction). Empirically testable research questions related to the topic.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC **961** **Current Approaches to Elementary Music Education**

Crosslisted as *MUED 961*

[LINK \(http://bulletin.unl.edu/courses/TEAC/961\)](http://bulletin.unl.edu/courses/TEAC/961)

Prereqs:
Teaching experience

Implementation of current programs, materials, and techniques for the improvement of music instruction in the elementary school.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC **990** **Workshop Seminar**

[LINK \(http://bulletin.unl.edu/courses/TEAC/990\)](http://bulletin.unl.edu/courses/TEAC/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC **993** **Workshop Seminar**

[LINK \(http://bulletin.unl.edu/courses/TEAC/993\)](http://bulletin.unl.edu/courses/TEAC/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC **995** **Doctoral Seminar**

[LINK \(http://bulletin.unl.edu/courses/TEAC/995\)](http://bulletin.unl.edu/courses/TEAC/995)

Prereqs:
Permission

Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

TEAC

996

Individual Research Projects

[LINK \(http://bulletin.unl.edu/courses/TEAC/996\)](http://bulletin.unl.edu/courses/TEAC/996)**Prereqs:
Permission**

Individual research under faculty supervision.

Credit Hours:	1-10
Max credits per degree:	10
Campus:	
Course Delivery:	Classroom

TEAC

997

Minor Research

[LINK \(http://bulletin.unl.edu/courses/TEAC/997\)](http://bulletin.unl.edu/courses/TEAC/997)

Individual research on approved topics in Elementary Education.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

TEAC

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/TEAC/999\)](http://bulletin.unl.edu/courses/TEAC/999)**Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair**

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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Q

Description

The College of Education and Human Sciences (CEHS) offers graduate degree programs through its seven CEHS departments: Child, Youth and Family Studies; Educational Administration; Educational Psychology; Nutrition and Health Sciences; Special Education and Communication Disorders; Teaching, Learning and Teacher Education; and Textiles, Clothing and Design. In addition to graduate degree programs, CEHS also offers graduate, non-degree programs leading to certification in areas such as teaching, curriculum leadership and school administration.

Workshop Seminars in Education

The purpose of the Workshop Seminars (890, 893, 990 or 993) is to give students in the departments of education an opportunity to work singly or in groups on practical educational problems which are of special focused interest but which are not included in other professional education courses. Workshops are offered on a variety of topics by College faculty and selected educational consultants. As a rule, the individual or group is expected to produce some kind of a product as a part of the workshop experience. The amount of credit in a Workshop Seminar at either the 800 or 900 level may not exceed 12 semester hours in meeting requirements for the masters degree. Upon approval, a maximum of 12 additional semester hours may be included in the program for the doctoral degree.

CEHS offers three masters degrees in nine majors and the education specialist degree in three majors. The MEd is offered only in Educational Administration; Special Education and Communication Disorders; and Teaching, Learning, and Teacher Education. The following requirements for the MEd are College requirements. Departmental requirements may exceed these. In work for the master of education degree, at least 6 semester hours selected from College of Education and Human Sciences courses outside the major must be included and supporting work may be substituted for the minor(s). For information on masters and specialist degree programs, consult the relevant department's listing in this bulletin.

CEHS offers two doctoral degrees, both the EdD and the PhD, under three majors: educational studies, human sciences, and psychological studies in education. In addition, CEHS participates in two additional doctoral majors.

The Educational Studies major includes six specializations. Instructional Technology; Internet-based Education; and Teaching, Curriculum and Learning are hosted by the Department of Teaching, Learning and Teacher Education. Special Education is sponsored by the Department of Special Education and Communication Disorders. The Department of Educational Administration hosts Educational Leadership and Higher Education and co-hosts, with Architecture, Architecture Education.

The Human Sciences major includes five specializations. Communication Disorders is housed in the Department of Special Education and Communication Disorders; Child, Youth and Family Studies is sponsored by the Department of Child, Youth and Family Studies; Nutrition and Health Sciences is hosted by the Department of Nutrition and Health Sciences; Textiles, Clothing and Design is based in the Department of Textiles, Clothing and Design; and Leadership Studies is housed in the Department of Agricultural Leadership, Education and Communication.

The Psychological Studies in Education major includes four specializations, all hosted by the Department of Educational Psychology: Cognition, Learning and Development; Counseling Psychology; Qualitative and Quantitative Methodologies in Education; and School Psychology. In addition, the Department of Educational Administration--in cooperation with UNO's Department of Educational Administration--offers a major in Educational Administration, and the Department of Nutrition and Health Sciences participates in the Interdepartmental Nutrition major. Specific program and application information is available under each department's listing in this bulletin. Up-to-date information is also available on-line at cehs.unl.edu. Inquiries may be directed to cehsgrad@unl.edu or to (402) 472-5333.

[U](#)

Educational Administration

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Interim Department Chair: Brent D. Cejda, Ph.D.

Graduate Committee Chair: Jody Isernhagen, Ph.D.

The Department of Educational Administration offers programs leading to masters (MEd, MA) and doctoral degrees (PhD, EdD) as well as certificates of specialization.

Masters degree programs

The Masters Degree program meets the academic requirements for either a Master of Arts (MA) or a Master of Education (MEd) degree with a major in Educational Administration. The MA degree requires the completion of a thesis. Students enrolled in the Masters Degree program are interested in both K-12 and higher education administration.

The majority of students interested in K-12 education intend to satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, at either the standard or professional level, with administrative endorsements that will qualify them for employment as administrators in K-12 school systems. Students interested in higher education administration have the opportunity to pursue specializations in student affairs or human resource development or complete a general higher education program.

Doctoral degree programs

There are two approved doctoral areas of emphasis: 1) Educational Leadership and Higher Education (ELHE), which leads to either the PhD or EdD degree in education studies, and 2) a jointly operated program with UNO (EDJT) which leads to the EdD in educational administration. All students pursuing a doctorate degree are required to complete a dissertation and students pursuing a PhD are required to complete an on-campus residency.

Certificates of Specialization

In addition to masters and doctoral degrees, the department offers four certificates of specialization.

Individuals who already have a Masters Degree in education can pursue a certificate endorsement program that will satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, a requirement for employment as an administrator in a K-12 school system.

The Certificate of Specialization in Educational Administration is designed to meet the requirements of a Nebraska Professional and Administrative Supervisory Certificate with an endorsement of superintendent.

The School Improvement Certificate Program that focuses on the K-12 school improvement process. The School Improvement Program benefits you--the teacher, by preparing you as a school leader while gaining the specialist credential, allowing you to increase your skills and build career opportunities.

The Community College Leadership Certificate is designed for those already employed in community colleges who aspire to administrative appointments as well as those who are in leadership positions and need or desire additional preparation.

Course Delivery

The Department of Educational Administration has been a campus leader in reaching out to students who need or wish to study from off campus and offers most of the course work for the MEd and EdD online. The primary emphasis in all courses is on the principles, processes, and practical skills necessary for the leadership, organization, and administration of educational institutions.

Further information about graduate degree programs and about certification programs may be located on the department's Website, located at cehs.unl.edu/edad.

[U](#)

Educational Psychology

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Department Chair: R. J. De Ayala, Ph.D.

Graduate Committee Chair: Edward Daly, Ph.D.

Website: edpsyc.unl.edu

The Department of Educational Psychology consists of four program areas: counseling psychology; cognition, learning and development (CLD); quantitative, qualitative, and psychometric methods (QQPM); and school psychology.

Masters Degree

The master of arts (MA) degree may be obtained with a specialization in cognition, learning and development (CLD program), or with a concentration in counseling psychology, or research and psychometric methods (QQPM program). Individuals in the CLD program may select the general CLD specialization or an option in health behavior or in college learning center. Endorsement programs are offered in secondary school counseling, and elementary school counseling.

Educational Specialist Degree

The Department of Educational Psychology offers the educational specialist degree (EdS) (67-72 hours beyond the BA) in school psychology. The EdS in school psychology leads to certification as a school psychologist.

Doctoral Degrees

The PhD degree is available to students wishing careers in cognition, learning and development, research methods, measurement, counseling psychology, and school psychology through the field of educational specialization called psychological studies in education. For further information, see and contact the chair of the Department's Graduate Committee.

Counseling and School Psychology Clinic

The Counseling and School Psychology Clinic in the Department of Educational Psychology serves the dual function of (1) providing training for qualified graduate students and of (2) providing services to individuals, public schools, families, and community agencies. Clinic therapists assist adults, families, children and youth experiencing academic, psychological, and behavioral concerns. In addition to therapeutic services, clinic therapists provide psychological testing and consultation for school related concerns. Therapeutic services are also provided for educational and vocational concerns. Service is provided by appointment.

Buros Center for Testing

The Buros Center for Testing comprises two separate institutes dedicated to improving the quality of contemporary assessment practices. Founded by Oscar K. Buros in 1937, the Buros Institute of Mental Measurements (BIMM) publishes critical evaluations of commercially available tests. In addition to its international reputation for providing test reviews, BIMM maintains the largest collection of tests and testing materials in the world. The Buros Institute for Assessment Consultation and Outreach (BIACO) was established in 1994 to expand the range of available assessment services to proprietary testing programs that include credentialing, state educational assessment, employment testing, and assessment literacy. Together, the two Buros Institutes advance the goals of the Department of Educational Psychology and the College of Education and Human Sciences by providing consultation and instructional services to graduate programs, by training

and supporting graduate students in current assessment practices, and by serving assessment outreach needs both within and outside the state of Nebraska.

Q

Special Education and Communication Disorders

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders). (<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Department Chair: Sherri Jones, Ph.D.

Graduate Committee Chair: Karen Hux, Ph.D.

The Department of Special Education and Communication Disorders offers graduate programs leading to the master of science degree in speech–language pathology and the master of arts and master of education degrees in special education. The department administers a PhD in human sciences with a specialization in communication disorders and the PhD or EdD in educational studies with a specialization in special education. The department also offers the professional doctor of audiology (AuD) degree in audiology and a combined AuD/PhD Program. For more information on doctoral programs in education call (402) 472–2141 or visit our website at www.unl.edu/barkley.

The masters degree program in speech–language pathology and the AuD program in audiology are accredited by the Council on Academic Accreditation in Audiology/Speech–Language Pathology.

For more information regarding graduate and professional programs offered by the Department of Special Education and Communication Disorders, please call (402) 472–2141 or visit our website at www.unl.edu/barkley.

Masters Degree Programs. Students seeking admission into a masters program should: 1) apply on–line to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the web site at www.unl.edu/barkley or by emailing the Graduate Secretary at special@unl.edu. Three letters of recommendation, preferably from former college instructors, should be submitted to the departmental Graduate Governance Committee Chair along with the departmental application. Each applicant should also arrange to have a current academic transcript and scores for the General Test of the Graduate Record Examination submitted to the Graduate Studies Office at the University of Nebraska–Lincoln. Early submission of the scores is important because the application file cannot be given consideration until the file is complete.

For a master of science degree in speech–language pathology, completion of an appropriate undergraduate or pre–professional program is required for full graduate standing. Students with strong potential but without an academic background in the major may be admitted on a provisional basis until deficiencies have been met. Completion of the masters degree requires a minimum of 48 hours of approved graduate work, including appropriate clinical practicum experiences for those seeking certification/licensure. The application deadline for fall admission into the M.S. program in Speech–Language Pathology is January 15.

Teacher Certification (licensure) and the Masters Degree. Masters degrees may be obtained with teaching certificate endorsements for special education and speech–language pathology. Candidates must qualify for a Nebraska Teaching Certificate (see the Undergraduate Bulletin) for employment in the public schools.

Distance Education. The Department has several special education masters degrees, an educational specialist degree, and/or teaching endorsement programs that are available in part or fully through distance education. These include Early Childhood Special Education, Deaf and Hard of Hearing, Mild/Moderate Disabilities, Visual Impairments, Autism, Severe Disabilities, and Supervisor of Special Education (joint with Educational Administration) programs. Distance courses are delivered via the Internet with Blackboard and/or Breeze software. Some distance courses may also require some weekend meetings, telephone or Breeze connections to the on–campus course section, and may have scheduled participation requirements. Field experience and practicum courses can be arranged in or near local communities but may require special fees. Where required courses are not currently available via distance delivery, an equivalent course (either on–campus or at a distance) from another institution can be substituted with the approval of the advisor or may be taken on the UNL campus during the summer. See the department website for information about computer requirements for distance on–line courses and distance course availability.

Educational Specialist (EdS) Degree. This program in special education provides opportunity for practitioners in the field to upgrade their skills and/or develop leadership skills as a special educator in a particular area of specialization. Two years successful professional experience as a special educator is a minimum requirement for admission. A minimum of 66 credit hours past the bachelors degree is required, with at least 24 credits to be taken after admission to UNL's EdS program. These include at least 40 hours of core content courses, 6 credits of electives or practica, and 3 credits of research. Relevant coursework completed as part of a prior masters degree can be used toward this degree. The program also requires a written comprehensive examination. Degree requirements can be used for additional teaching endorsements. Other relevant information and the application form can be found online at: www.unl.edu/barkley/sped/eds.shtml.

Doctor of Audiology (AuD) Degree. The Department of Special Education and Communication Disorders offers a professional audiology degree, the Doctor of Audiology (AuD) degree. The AuD program is a four–year course of study post B.A. or B.S. designed to provide students with academic and clinical practicum experiences that will meet or exceed the requirements of the American Speech–Language–Hearing Association (ASHA) for the Certificate of Clinical Competence in Audiology (CCC–AUD) as well as licensure requirements in most states.

Students seeking admission to the AuD program should download the application from www.unl.edu/barkley. Three letters of recommendation, preferably from former college instructors, should be submitted to the AuD program coordinator along with the departmental application. Students **do not** apply to the Office of Graduate Studies and submission of the Graduate Record Examination is not required for admission. Students should contact the Graduate Support Staff at special@unl.edu for further application instructions.

PhD/EdD Degree Programs. Students planning to work toward PhD or EdD degrees will follow essentially the same procedures for admission as described above under the masters degree programs. Students seeking admission into one of these programs should: 1) apply online to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the website at www.unl.edu/barkley or by emailing the Graduate Support Staff at special@unl.edu. Prospective students should submit three letters of recommendation along with the department application, a copy of their masters thesis and other relevant publications (if the student completed a thesis or has published) to the departmental Graduate Committee Chair. A current academic transcript and scores for the General Test of the Graduate Record Examination need to accompany the application when it is submitted to the Graduate Studies Office. Initial review of all applications is made within the Department of Special Education and Communication Disorders where consideration is given to whether an applicant meets the qualifications for entrance into the program and whether a student's interests are in accord with the type of education and direction the department faculty can provide. Final review of an application is made by the appropriate doctoral field graduate committee in special education or communications disorders.

Q

Teaching, Learning and Teacher Education

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation). (<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

Interim Department Chair: L. James Walter, Ph.D.

Graduate Committee Chair: Kathleen Wilson, Ph.D.

The Department of Teaching, Learning and Teacher Education (TLTE) provides masters, specialist and doctoral degree courses and programs for teachers, administrators, and other educational leaders and practitioners with a focus on scholarship and practice in curriculum and instruction in schools and non–school educational settings. Graduate endorsements are also offered in Reading Specialist K–12 and ESL.

Masters Degrees.

The aim of the TLTE masters program is to help educators build on their own experience, achieve a broad and deep understanding of educational practice, develop a professional identity, and engage in informed conversations about important teaching and learning issues towards making wise judgments regarding the many complex issues educators face. All candidates must complete a program which conforms to the requirements listed on the [TLTE masters program](http://cehs.unl.edu/tlte/graduate/masters) (<http://cehs.unl.edu/tlte/graduate/masters>) web page. There are two masters degrees available in TLTE: the MA and MEd. Both degree programs offer a good deal

of flexibility to enable the student--in concert with a faculty adviser--to develop a course of study that meets the student's needs and interests. If you are interested in earning teacher certification at the elementary level in combination with a master degree, a 14 month full time program (MAet) is available. If instead you see yourself teaching at the middle school or high school level with a specialization in science or mathematics, read about our newest 14 month full time programs (MAmt and MAst) where you can qualify for teacher certification and earn a Master of Arts degree. A limited number of fellowships are available with the MAst and MAmt programs.

Educational Specialist (EdS) Degree.

This program in curriculum and instruction provides an opportunity for practitioners in the field to upgrade their professional skills. Two years of successful professional experiences is a minimum requirement for admission. Sixty-six hours beyond the bachelors degree, research competence, practicum experiences, and a written comprehensive examination are basic requirements for the program. It is recommended that you contact the department Graduate Chair before applying.

Doctoral Programs.

The EdD and PhD degrees are available under the major heading Educational Studies refer to the web page [doctoral programs in education](http://cehs.unl.edu/tlte/graduate/doctoral.shtml). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml>) The EdD is recommended for those whose primary interest is in the application of theory and knowledge to improve educational practice. The PhD is designed for students seeking to conduct research in order to generate new knowledge or reform educational theory. The Department of Teaching, Learning and Teacher Education administers three doctoral-level specializations, available for both the EdD and PhD in Educational Studies. Teaching, Curriculum and Learning focuses on teaching and learning processes; Instructional Technology focuses on using technology as a learning tool in various educational settings; and Internet-based Education focuses on using the Internet as a platform for teaching and learning. The most current information on these specializations is kept up-to-date on the web page for [TLTE doctoral programs](http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl>) For additional information, see or of this bulletin. The Graduate Record Examination (GRE) is required for admission to the doctoral programs and foreign students must also submit a TOEFL score.

Faculty

Educational Administration

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Educational Psychology

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Special Education and Communication Disorders

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders). (<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Teaching, Learning and Teacher Education

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation). (<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

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Education

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Ω

Courses for EDUC (EDUC)

SPED 892	Special Topics in Education Crosslisted as <i>EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892</i>	LINK (http://bulletin.unl.edu/courses/SPED/892)
Prereqs: EDPS 859 (http://bulletin.unl.edu/courses/EDPS/859) or parallel; EDPS 859 (http://bulletin.unl.edu/courses/EDPS/859) or equivalent		
Aspects of education not covered elsewhere in the curriculum.		
	Credit Hours:	1-3
	Max credits per degree:	12
	Course Format:	Lecture
	Campus:	
	Course Delivery:	Classroom

Ω

Courses for CEHS (CEHS)

CEHS 467/867	International Cultures Experience in the Local Community	LINK (http://bulletin.unl.edu/courses/CEHS/467)
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Lecture and discussion will be required as part of the field discussion.
Field hours will be assigned at the rate of three hours per week.

An international cultural experience in the local community by providing field-based learning experiences in community centers, schools, and human services agencies in the local community. The course will study immigrant families in the U.S. through observing and participating in community activities and through readings, discussions, and reflective journaling that integrate lessons from the field with theory and research.

CEHS **International Experience in Communities, Schools, and Families** [LINK \(http://bulletin.unl.edu/courses/CEHS/494\)](http://bulletin.unl.edu/courses/CEHS/494)

494/894

Lecture and discussion will be required as part of the field experience.
Field hours will be assigned at the rate of two hours per week per student credit hour.

Instructor-guided experiences of a culture in another nation in order to critically examine individual and cross-cultural differences in values, lifestyles, education, history and culture of international families, schools, and communities.

Credit Hours:	3
Course Format:	Field 3
Course Delivery:	Classroom, Web

Credit Hours:	1-6
Max credits per semester:	3
Max credits per degree:	6
Course Format:	Field 2
Course Delivery:	Classroom

Courses for EDAD (EDAD)

EDAD **Foundations of Human Resource Development** [LINK \(http://bulletin.unl.edu/courses/EDAD/421\)](http://bulletin.unl.edu/courses/EDAD/421)

421/821

Lays the foundation for further study of Human Resource Development (HRD) by examining the knowledge of HRD professionals, the roles they play, and the organizational settings in which HRD occurs. The design and development of education and training programs, how change occurs in organizations, how career development can optimize the match between individual and organizational goals and needs, and how to improve performance in organizations by analyzing performance opportunities and designing employee training to address these opportunities.

Credit Hours:	3
Course Delivery:	Classroom

EDAD **Instructional Design in Human Resource Development** [LINK \(http://bulletin.unl.edu/courses/EDAD/422\)](http://bulletin.unl.edu/courses/EDAD/422)

422/822

Examines the role of instruction for enhancing human learning and performance in organizations. The analysis of performance problems/opportunities and design of interventions for learning and performance improvement. The essential components of instruction, selecting instructional methods and media to achieve program objectives, the transfer of learning, and evaluating the effectiveness of instruction. The performance enhancing potential of systematically linking needs analysis, instructional design, and program evaluation.

Credit Hours:	3
Course Delivery:	Classroom

EDAD **Cross-Cultural Leadership Studies** [LINK \(http://bulletin.unl.edu/courses/EDAD/801\)](http://bulletin.unl.edu/courses/EDAD/801)

801

**Prereqs:
Permission**

For those interested in exploring leadership and leadership issues from a cross-cultural perspective. Students construct their understanding of different cultural perspectives on leadership through readings, interviews, and field trips. Provides students with a valuable perspective on their own and other cultural perspectives through the comparison of cultural

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

viewpoints. Native American understanding of leadership.

EDAD

811

Practicum in Educational Administration and Supervision

[LINK \(http://bulletin.unl.edu/courses/EDAD/811\)](http://bulletin.unl.edu/courses/EDAD/811)

Prereqs:
Permission

May be repeated for credit. Rating and supervision of teachers; principles and procedures in the development of school policies; selection and promotion of teachers; courses of study and professional ethics.

Credit Hours:	3-4
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

EDAD

813

Administration in Physical Education and Athletics

[LINK \(http://bulletin.unl.edu/courses/EDAD/813\)](http://bulletin.unl.edu/courses/EDAD/813)

Organization and administration of physical education and athletic programs in colleges and school systems. Practices and policies as they relate to various situations and problems and in the theoretical base for these practices and policies.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

814

Risk Management for Sport Facilities

[LINK \(http://bulletin.unl.edu/courses/EDAD/814\)](http://bulletin.unl.edu/courses/EDAD/814)

Legal and risk management aspects of construction, supervision, and management of sport, athletic, and recreation indoor and outdoor facilities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

830

Administrative Theory in Educational Organizations

[LINK \(http://bulletin.unl.edu/courses/EDAD/830\)](http://bulletin.unl.edu/courses/EDAD/830)

Introduction to classic and contemporary administrative theory as applied to educational organizations. The theoretical nature of the course content is relevant to those with an interest in a broad variety of educational institutions. General organizational theory, organizational models, historical schools of administrative theory, authority, power, motivation, and leadership. Frequently students are involved in studying problems of practice as a means of testing theory.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

833

Educational Finance

[LINK \(http://bulletin.unl.edu/courses/EDAD/833\)](http://bulletin.unl.edu/courses/EDAD/833)

Critical analysis of the political and economic elements impacting K-12 school finance. Content and activities address both building and district level concerns with an emphasis on principles, programs, and trends in school finance.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

835

Business Management of Schools

[LINK \(http://bulletin.unl.edu/courses/EDAD/835\)](http://bulletin.unl.edu/courses/EDAD/835)

Allocation and management of fiscal resources including aspects of financial planning and reporting, budgeting and accounting procedures, purchasing, risk management and insurance, investing and bond issues, and auxiliary service.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

836**Planning for Change**[LINK \(http://bulletin.unl.edu/courses/EDAD/836\)](http://bulletin.unl.edu/courses/EDAD/836)

Rationale for planning in a changing environment will be explored; the theoretical base for planning presented; strategic, futuristic planning and operational planning explored; the development of planning strategies, techniques and procedures; the process of evaluation, feedback and revisions explored; and the management of the change process analyzed.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

837**Education Law**[LINK \(http://bulletin.unl.edu/courses/EDAD/837\)](http://bulletin.unl.edu/courses/EDAD/837)

Evolution, principles, and practice of education law in relation to local, state, and national units of organization. Education law of Nebraska.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

838**Educational Surveys**[LINK \(http://bulletin.unl.edu/courses/EDAD/838\)](http://bulletin.unl.edu/courses/EDAD/838)

School systems and its educational program in terms of needs of attendance area served. Organization and interpretation of pertinent data and formulation of recommendations for improvement of educational systems. Long-range planning.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

839**Educational Facilities**[LINK \(http://bulletin.unl.edu/courses/EDAD/839\)](http://bulletin.unl.edu/courses/EDAD/839)

Techniques for planning educational facilities through use of surveys, educational specifications, and standards. Function of the school administrator in school facilities planning, construction, and utilization.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

842**College Students in America**[LINK \(http://bulletin.unl.edu/courses/EDAD/842\)](http://bulletin.unl.edu/courses/EDAD/842)

This course is designed to provide students an understanding of a broad range of facts and issues pertaining to undergraduate college students in America.

Credit Hours:	3
Course Format:	Lecture 2.33
Course Delivery:	Classroom

EDAD

843**Counseling Principles for Educational Administrators**[LINK \(http://bulletin.unl.edu/courses/EDAD/843\)](http://bulletin.unl.edu/courses/EDAD/843)

This is an introductory level counseling course designed specifically for educational administrators. It is not intended to prepare individuals to become professional counseling practitioners. It offers a broad overview of counsel principles. This is a theory-to-practice course.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDAD

851**Faculty and Staff Appraisal**[LINK \(http://bulletin.unl.edu/courses/EDAD/851\)](http://bulletin.unl.edu/courses/EDAD/851)

Faculty and support staff in P-12 schools: appraisal, professional learning communities, high standards/high performance and accountability.

Credit Hours:	3
Campus:	

EDAD

852**School Culture and Student Behavior**[LINK \(http://bulletin.unl.edu/courses/EDAD/852\)](http://bulletin.unl.edu/courses/EDAD/852)

School culture and student behavior in P-12 schools. Personalized teaching and learning environments that address student diversity, needs and interests.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

855**Teaching Learners to Learn**[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

856**Supervising Special Education**[LINK \(http://bulletin.unl.edu/courses/EDAD/856\)](http://bulletin.unl.edu/courses/EDAD/856)Crosslisted as *SPED 856*

For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

857**Special Education Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/857\)](http://bulletin.unl.edu/courses/EDAD/857)Crosslisted as *SPED 857*

Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

858**Special Education Law**[LINK \(http://bulletin.unl.edu/courses/EDAD/858\)](http://bulletin.unl.edu/courses/EDAD/858)Crosslisted as *SPED 858*

Body of law that pertains to the organization, administration, and implementation of special education programs in PreK-12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

870**Constitutional Law I**[LINK \(http://bulletin.unl.edu/courses/EDAD/870\)](http://bulletin.unl.edu/courses/EDAD/870)Crosslisted as *LAW 609G*

Structure of the federal government, including the history and judicial interpretation of the Constitution, federalism, interstate commerce, due process, equal protection, and separation of powers.

Credit Hours: 1-4**Campus:****Course Delivery:** Classroom

EDAD

871**Constitutional Law II**Crosslisted as *LAW 732G*[LINK \(http://bulletin.unl.edu/courses/EDAD/871\)](http://bulletin.unl.edu/courses/EDAD/871)

Emphasizes protected individual civil liberties. The origin and modern applicability of the state action concept in constitutional litigation; the scope of congressional power to enforce the post Civil War amendments; freedom of speech, association, and press; and constitutional principles enforcing the first amendment's command that "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof."

Credit Hours: 1-4**Campus:****Course Delivery:** Classroom

EDAD

872**Introduction to Law, Legal Process, and Legislation**[LINK \(http://bulletin.unl.edu/courses/EDAD/872\)](http://bulletin.unl.edu/courses/EDAD/872)

How law is made and changed, the role of the individual, the business corporation, the private association, the administrative agency, the voting public, the legislature, and the courts in making and changing law.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

874**Torts I**Crosslisted as *LAW 503G*[LINK \(http://bulletin.unl.edu/courses/EDAD/874\)](http://bulletin.unl.edu/courses/EDAD/874)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours: 1-6**Max credits per degree:** 6**Campus:****Course Delivery:** Classroom

EDAD

875**Torts II**[LINK \(http://bulletin.unl.edu/courses/EDAD/875\)](http://bulletin.unl.edu/courses/EDAD/875)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours: 1-6**Max credits per degree:** 6**Campus:****Course Delivery:** Classroom

EDAD

880B**Designing Instructional Technology K-12**[LINK \(http://bulletin.unl.edu/courses/EDAD/880B\)](http://bulletin.unl.edu/courses/EDAD/880B)**Credit Hours:** 1-3**Max credits per degree:** 3**Campus:****Course Delivery:** Classroom

EDAD

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/890\)](http://bulletin.unl.edu/courses/EDAD/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:**Course Delivery:** Classroom

EDAD

Workshop Seminar[LINK \(http://bulletin.unl.edu/courses/EDAD/893\)](http://bulletin.unl.edu/courses/EDAD/893)

893

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDAD

896**Independent Study**

[LINK \(http://bulletin.unl.edu/courses/EDAD/896\)](http://bulletin.unl.edu/courses/EDAD/896)

Prereqs:
Permission

Selected topic with the direction and guidance of a staff member.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD

899**Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/EDAD/899\)](http://bulletin.unl.edu/courses/EDAD/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

EDAD

901**System-Level School Improvement**

[LINK \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901)

This course is a prerequisite for: [EDAD 902 \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

Knowledge and skills required for system-level leaders to bring about school improvement and enhance student achievement. Creating systems that engage the public, performing in complex political environments, and delivering needed services to schools and classrooms.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

902**Data for Action Planning**

[LINK \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

Prereqs:
[EDAD 901 \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901).

[EDAD 902 \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902) requires developing an initial school improvement plan.

Assessment theory and types of assessments used to measure student performance relative to a school improvement goal. Relationships between profile data and baseline data, locally developed classroom assessments, and post data pertaining to school improvement goals and action plans.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

903**Issues in Community Relations**

[LINK \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903)

This course is a prerequisite for: [EDAD 904 \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

Principles of community relations and public relations; development of school and community understanding; collaboration of educators and community agents and agencies; communication tools and evaluation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

Analysis in Continuous Improvement

[LINK \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

904

Prereqs:

[EDAD 903 \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903).

EDAD 904 (http://bulletin.unl.edu/courses/EDAD/904) requires generating recommendations for proceeding into the next cycle of school improvement and conducting a personal self-analysis of improvement process skills and obtain information from supervisors and/or colleagues regarding abilities as a

Analyze how staff attitudes and behaviors are impacted through the improvement process.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD 905

Issues in Governance of Educational Institutions

[LINK \(http://bulletin.unl.edu/courses/EDAD/905\)](http://bulletin.unl.edu/courses/EDAD/905)

Issues in the governance of K-12 schools including administrator-school board roles and relationships.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

EDAD 906

Issues in System Level Administration

[LINK \(http://bulletin.unl.edu/courses/EDAD/906\)](http://bulletin.unl.edu/courses/EDAD/906)

Prereqs:

Masters degree or equivalent.

Selected system level issues faced by pre-K to grade 12 school administrators.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD 907

Issues in Educational Politics and Policies

[LINK \(http://bulletin.unl.edu/courses/EDAD/907\)](http://bulletin.unl.edu/courses/EDAD/907)

Analyze and evaluate policy processes involved in making choices; develop understanding, apply and evaluate knowledge about key political concepts and theories to the analysis of educational policy issues; analyze and evaluate issues as points of political conflict between institutional structures with competing interests; understand people as the actors in roles they occupy in the political system.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 908/929

Seminar in Adult and Continuing Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Crosslisted as *EDPS 929*

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD 909

Seminar in Human Resource Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/909\)](http://bulletin.unl.edu/courses/EDAD/909)

Prereqs:

[EDAD 821 \(http://bulletin.unl.edu/courses/EDAD/821\)](http://bulletin.unl.edu/courses/EDAD/821) or [822 \(http://bulletin.unl.edu/courses/EDAD/822\)](http://bulletin.unl.edu/courses/EDAD/822)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

Current research and theory within the field of human resource development, broadly defined. Stresses key problems affecting the training, development, and education of human resources within organizational settings.

EDAD

910

The Higher Education Environment

[LINK \(http://bulletin.unl.edu/courses/EDAD/910\)](http://bulletin.unl.edu/courses/EDAD/910)

Universities are adaptive, living systems interacting with their environment. Equips participants with the skills required to analyze and assess the environment of higher education institutions. Environment concepts, components and structures are studied together with analysis techniques and methodological approaches to future study.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

912A

Educational Leadership in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/912A\)](http://bulletin.unl.edu/courses/EDAD/912A)

Strategic thinking, application of leadership theories in the educational setting. Develop a clear personal philosophy of leadership and engage in collaborative active-learning. Multi-media simulations and/or scenarios and role playing to examine options, consequences, and leadership effectiveness in decision-making.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

912B

Educational Leadership in Community Colleges

[LINK \(http://bulletin.unl.edu/courses/EDAD/912B\)](http://bulletin.unl.edu/courses/EDAD/912B)

Issues facing community college leaders and the knowledge, skills, and competencies necessary to provide effective leadership in the community college setting. Case studies of community colleges, combined with the literature on community college leadership, and active learning opportunities to examine current practices and develop a personal philosophy of leadership.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

921

Administrative Issues in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/921\)](http://bulletin.unl.edu/courses/EDAD/921)

Introduction to contemporary issues in the administration of higher education with a focus on the scholarly literature, a comparative analysis of administration in types of institutions, leadership and planning, institutional and environmental issues, and selected topics.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

922

Finance in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/922\)](http://bulletin.unl.edu/courses/EDAD/922)

Federal and state government funding, institutional planning, technological and community influences, human resources finance, budgeting, and sources of financial support as they relate to higher education institutions and agencies.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

923

The Community/Junior College

[LINK \(http://bulletin.unl.edu/courses/EDAD/923\)](http://bulletin.unl.edu/courses/EDAD/923)

Designed particularly for those interested in upper secondary and college

Credit Hours: 3

levels. Junior college movement; relationship of movement to provisions for an adequate educational program; functions of the junior college; legal status and basis for extension of junior college; problems of organization, administration, and curriculum.

Course Format: Lecture

Campus:

Course Delivery: Classroom

EDAD

924

Administration of Higher Education Instructional Programs

[LINK \(http://bulletin.unl.edu/courses/EDAD/924\)](http://bulletin.unl.edu/courses/EDAD/924)

Administration of higher education instructional programs. Exploration of curricular issues including an assessment of program quality and reputation, program reallocations, retrenchments, and expansions.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

925

Law and Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/925\)](http://bulletin.unl.edu/courses/EDAD/925)

Examination of legal principles applicable to higher education institutions. Overview of the legal system, higher education institutions as legal entities, authority for governance and administration, faculty rights and responsibilities, student rights and responsibilities, institutional and personal liability, and other selected issues.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

926

The American Professoriate: An Administrative Perspective

[LINK \(http://bulletin.unl.edu/courses/EDAD/926\)](http://bulletin.unl.edu/courses/EDAD/926)

Contemporary faculty issues in postsecondary education institutions from the perspective of college administrators. Current status of faculty, assigning faculty workloads and monitoring performance levels, evaluating faculty performance, structuring development activities, and special topics.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

931

Higher Education Information Systems

[LINK \(http://bulletin.unl.edu/courses/EDAD/931\)](http://bulletin.unl.edu/courses/EDAD/931)

Foundation in management information systems. Issues in information systems, current research and writings, key terms, and how information systems impacts organizational culture, business processes, work-flow, and overall operations of an institution. The roles in the application, analysis, and management of higher education administration technology.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

932

Global Issues in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/932\)](http://bulletin.unl.edu/courses/EDAD/932)

Selected issues affecting global educational policies and practices.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

933

Strategic Planning

[LINK \(http://bulletin.unl.edu/courses/EDAD/933\)](http://bulletin.unl.edu/courses/EDAD/933)

EDAD 933 (http://bulletin.unl.edu/courses/EDAD/933) requires the student to analyze their respective institution's planning process and plan, and to participate in a simulation activity that reinforces the principles and

Credit Hours: 3

Course Format: Lecture 3

System theory, practice and problem solving. The strategic planning process in higher education. Models of strategic planning.

Campus:

Course Delivery: Classroom

EDAD

934**Teaching and Learning in the Community College**[LINK \(http://bulletin.unl.edu/courses/EDAD/934\)](http://bulletin.unl.edu/courses/EDAD/934)

Develop comprehensive understanding of five aspects of the community college: Curricular missions in general education, transfer education, career education, remedial/developmental education and community education; faculty and student populations; exemplary teaching and assessment of student learning outcomes; program and curriculum development; and human resources aspects related to instructional programs in hiring faculty and providing faculty development programs.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

935**Workforce, Economic, and Community Development**[LINK \(http://bulletin.unl.edu/courses/EDAD/935\)](http://bulletin.unl.edu/courses/EDAD/935)

Workforce, economic and community development role of higher education within the broader context of recent economic, social, and technological changes in communities, society, and the economy. Applicable to higher education in general with an emphasis on the example of two-year community colleges.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

948**Instructional Leadership: Emerging Trends and Practices**[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)Crosslisted as *TEAC 948*

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

956**Employment Law Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/956\)](http://bulletin.unl.edu/courses/EDAD/956)Crosslisted as *LAW 759G*

Selected current national and state legal issues pertaining to private and public employment.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

959**Law and Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/959\)](http://bulletin.unl.edu/courses/EDAD/959)Crosslisted as *LAW 695G*

Current legal issues of national significance relating to educational institutions; analysis of constitutional provisions, statutes, and court decisions affecting education; separation of church and state; rights of equality; student rights, responsibilities, and discipline; application of criminal and juvenile provisions; use of school property; control of the curriculum and extracurricular activities; contractual and tort liability; hiring, collective actions, tenure, outside activities, discharge, and retirement of teachers; confidentiality; accrediting agencies; and similar current legal matters.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

Public Employment Law[LINK \(http://bulletin.unl.edu/courses/EDAD/960\)](http://bulletin.unl.edu/courses/EDAD/960)

960

Legal issues relating to public employment with particular emphasis on public schools and colleges; collective bargaining by public employees, impasse, and resolution of public employee disputes; grievances, arbitration, and enforcement of agreements; civil rights of public employees; and laws applicable to public employment apart from collective bargaining, such as discrimination acts, wage and hour laws, retirement plans, and public records.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

961**Trial Advocacy**[LINK \(http://bulletin.unl.edu/courses/EDAD/961\)](http://bulletin.unl.edu/courses/EDAD/961)**Prereqs:**

LAW 646G (<http://bulletin.unl.edu/courses/LAW/646G>).

Students perform weekly exercises which are videotaped and critiqued and will try a case. Fundamentals of trial practice. Emphasis on questioning witnesses, selecting and addressing the jury, and admitting items into evidence.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

963**Legislation Seminar**

Crosslisted as *LAW 777G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/963\)](http://bulletin.unl.edu/courses/EDAD/963)

Development of further skills in drafting and interpreting statutes, understanding legislative processes and decision making, and evaluating the role of legislation in governmental regulation. Opportunity for in-depth study of subjects pertaining to or involving legislation, centering on subjects considered by the Nebraska Legislature and the Nebraska legislative process.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

964**Local Government Law**

Crosslisted as *LAW 788G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/964\)](http://bulletin.unl.edu/courses/EDAD/964)

Law of local government units with emphasis on current problems in the operation and administration of local government, models and theories of local government.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

966**Seminar in Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/966\)](http://bulletin.unl.edu/courses/EDAD/966)**Prereqs:**

Permission

Education administration problems with an analysis of research and literature pertaining to these problems.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDAD

968**Education Law Seminar**

Crosslisted as *LAW 621G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/968\)](http://bulletin.unl.edu/courses/EDAD/968)

Selected current national and state legal issues pertaining to education.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

970**Criminal Law**Crosslisted as *LAW 508G*[LINK \(http://bulletin.unl.edu/courses/EDAD/970\)](http://bulletin.unl.edu/courses/EDAD/970)

Substantive criminal law, focusing on the theoretical foundations, general principles, and doctrines that govern the rules of liability and defenses, both in the common law tradition and under the Model Penal Code.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

971**Evidence**Crosslisted as *LAW 646G*[LINK \(http://bulletin.unl.edu/courses/EDAD/971\)](http://bulletin.unl.edu/courses/EDAD/971)

Relevancy and admission of evidence, including hearsay, opinions, privileges, other exclusionary rules, examination of witnesses, judicial notice, and physical evidence.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

973**Jurisprudence**Crosslisted as *LAW 672G*[LINK \(http://bulletin.unl.edu/courses/EDAD/973\)](http://bulletin.unl.edu/courses/EDAD/973)

What is good and what is bad about law; the judicial process; principal schools of jurists; theories of the nature of law and the legal order; the American social system and the law; obligations to obey or to disobey the law; and ideas of justice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

976**Legal Control of Discrimination**Crosslisted as *LAW 680G*[LINK \(http://bulletin.unl.edu/courses/EDAD/976\)](http://bulletin.unl.edu/courses/EDAD/976)

Selected legal issues pertaining to the legal control of discrimination.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

977**Constitutional History**Crosslisted as *LAW 619/619G*[LINK \(http://bulletin.unl.edu/courses/EDAD/977\)](http://bulletin.unl.edu/courses/EDAD/977)

American constitutional history with a focus on "transformative" moments at which the Constitution and the nature of American politics and government changed. American Revolution and the framing of the Constitution and Bill of Rights, Civil War and Reconstruction, and the New Deal. Exploration of the courts and how they stood on history and original intent when they interpret the Constitution.

Credit Hours: 1-4

Course Format: Lecture

Campus:

Course Delivery: Classroom

EDAD

978**Mass Communications Law**Crosslisted as *LAW 649G*[LINK \(http://bulletin.unl.edu/courses/EDAD/978\)](http://bulletin.unl.edu/courses/EDAD/978)

In-depth focus on the first amendment. Includes legal distinctions between the print and broadcast media, free press and fair trial, access to media, and licit and illicit ideas.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

979**Seminar in College Student Personnel Work**Crosslisted as *EDPS 979*[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research

Credit Hours: 2-3

Max credits per degree: 6

literature, some field experiences, and in-depth examination of special topics.

Campus:

Course Delivery: Classroom

EDAD

981

Introduction to Research

[LINK \(http://bulletin.unl.edu/courses/EDAD/981\)](http://bulletin.unl.edu/courses/EDAD/981)

A written report is required. Investigation and analysis of current problems in education administration and supervision.

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

EDAD

988

Dissertation Proposal Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/988\)](http://bulletin.unl.edu/courses/EDAD/988)

Prereqs:
Admission to a doctoral program

Intended for students who are working on the development of their dissertation proposal. Component parts of the dissertation proposal. Students from all areas of Teachers College and the University of Nebraska who are in the process of developing their proposal will find this course to be of use. Typically the course should be taken after the research tools have been completed.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

989

Survey of Administrative Research

[LINK \(http://bulletin.unl.edu/courses/EDAD/989\)](http://bulletin.unl.edu/courses/EDAD/989)

Intended primarily for students of education who are candidates for doctoral degrees. Readings, discussions, and an analysis of educational problems and research.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/990\)](http://bulletin.unl.edu/courses/EDAD/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD

991

Field Studies in Education

Crosslisted as *NUTR 991, TEAC 991*

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDAD

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/993\)](http://bulletin.unl.edu/courses/EDAD/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD

995**Doctoral Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/995\)](http://bulletin.unl.edu/courses/EDAD/995)**Prereqs:**
Permission

Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice. Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

EDAD

998**Seminar: Internship in Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/998\)](http://bulletin.unl.edu/courses/EDAD/998)**Prereqs:**
Permission

Opportunity for educational administrators to gain an understanding of administering changes or innovations, and to obtain supervised field experience. Consideration will be given antecedents of change, change models, the role of government, forces that restrict or stimulate change, tools to implement change, and evaluation.

Credit Hours:	1-6
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDAD

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/EDAD/999\)](http://bulletin.unl.edu/courses/EDAD/999)**Prereqs:**
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

EDPS

900J**Historical Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)Crosslisted as *EDAD 900J***Prereqs:**
EDPS *800 or equivalent; EDPS 459
<http://bulletin.unl.edu/courses/EDPS/459/859>
<http://bulletin.unl.edu/courses/EDPS/859> or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

977**Seminar in College Student Development**[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)Crosslisted as *EDAD 980**Special field experiences and research projects are available to students for additional credit.*

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED

892**Special Topics in Education**[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC **Coordination in Occupational Training Programs**

[LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)

425/825

Crosslisted as *EDAD 825*

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours:	1-3
Course Delivery:	Classroom

Courses for EDPS (EDPS)

ANTH **Pro-seminar in Latin American Studies**

[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)

478/878

Crosslisted as *HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878*

Prereqs:
Junior standing and permission.

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Credit Hours:	3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

EDAD **Teaching Learners to Learn**

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

855

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD **Seminar in Adult and Continuing Education**

[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

908/929

Crosslisted as *EDPS 929*

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD **Seminar in College Student Personnel Work**

[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

979

Crosslisted as *EDPS 979*

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research

Credit Hours:	2-3
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literature, some field experiences, and in-depth examination of special topics.

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDPS **Psychology of Adolescence**

[LINK \(http://bulletin.unl.edu/courses/EDPS/451\)](http://bulletin.unl.edu/courses/EDPS/451)

451/851

Mental, social, and emotional development of boys and girls during the adolescent period.

Credit Hours: 3

Course Delivery: Classroom

EDPS **Human Cognition and Instruction**

[LINK \(http://bulletin.unl.edu/courses/EDPS/454\)](http://bulletin.unl.edu/courses/EDPS/454)

454/854

Cognitive psychology and its applications in instruction. Memory, problem solving, cognitive process in reading, research approaches, and applications to teaching.

Credit Hours: 3

Course Delivery: Classroom

EDPS **Statistical Methods**

[LINK \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)

459/859

This course is a prerequisite for: [EDPS 800 \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800), [EDPS 470 \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470), [NUTR 486 \(http://bulletin.unl.edu/courses/NUTR/486\)](http://bulletin.unl.edu/courses/NUTR/486), [EDPS 900A \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A), [EDPS 900B \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B), [EDPS 900D \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D), [EDPS 900I \(http://bulletin.unl.edu/courses/EDPS/900I\)](http://bulletin.unl.edu/courses/EDPS/900I), [EDPS 900K \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Credit Hours: 3

Course Delivery: Classroom

ACE Outcomes: 3?

Computation and interpretation of measures of central position, variability, and correlation; introduction to sampling, probability, and tests of significance.

EDPS **Psychology of Disability**

[LINK \(http://bulletin.unl.edu/courses/EDPS/462\)](http://bulletin.unl.edu/courses/EDPS/462)

462/862

Research and theoretical literature related to the relationship between various disabling conditions and the psychological functioning of the person with disability.

Credit Hours: 3

Course Delivery: Classroom

EDPS **Introduction to Applied Behavior Analysis**

[LINK \(http://bulletin.unl.edu/courses/EDPS/463\)](http://bulletin.unl.edu/courses/EDPS/463)

463/863

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Research methods and findings, concepts, and principles of operant conditioning as related to the experimental analysis of human behavioral events and to the development of behavior engineering technologies.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

EDPS **Practices in Counseling and Personnel Services**

[LINK \(http://bulletin.unl.edu/courses/EDPS/465\)](http://bulletin.unl.edu/courses/EDPS/465)

465/865

Basic practices and related research in counseling and helping practices in

Credit Hours: 1-8

educational or other youth-serving agencies. Specialized applications to populations presenting unique problems are offered in sections B through L. B. Special Practices for Handicapped Children and Youth (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). D. Special Practices for Exceptionally Talented and Gifted (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). E. Special Practices in the Elementary School (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). K. Special Practices for Vocational Education/Development Programs (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). L. Special Practices for Community Helpers Working with Adults (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A).

Max credits per degree:	8
Course Format:	Lecture
Course Delivery:	Classroom

EDPS **Psychopathological Disorders of Childhood and Adolescence** [LINK \(http://bulletin.unl.edu/courses/EDPS/469\)](http://bulletin.unl.edu/courses/EDPS/469)

469/869

Investigation of the genesis, course, classification, and treatment of function and organic pathologies found in children and adolescents.

Credit Hours:	3
Course Delivery:	Classroom

EDPS **Introduction to Educational and Psychological Measurement** [LINK \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470)

470/870

Prereqs:
[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)/[859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent.

Introduction to the construction, evaluation, and ethical use of measurement instruments commonly used in education and psychology. Test construction principles, item analysis, reliability, validity, ethical issues in testing, and evaluation of standardized tests.

Credit Hours:	3
Course Delivery:	Classroom

EDPS **Directed Field Experience** [LINK \(http://bulletin.unl.edu/courses/EDPS/496\)](http://bulletin.unl.edu/courses/EDPS/496)

496/896

Prereqs:
Permission.

Introduction to the construction, evaluation, and ethical use of measurement instruments commonly used in education and psychology. Test construction principles, item analysis, reliability, validity, ethical issues in testing, and evaluation of standardized tests.

Credit Hours:	1-24
Course Delivery:	Classroom

EDPS **Special Topics** [LINK \(http://bulletin.unl.edu/courses/EDPS/498\)](http://bulletin.unl.edu/courses/EDPS/498)

498/898

Prereqs:
Permission.

Seminar on current issues or topics in educational psychology. Topics vary.

Credit Hours:	1-6
Max credits per semester:	6
Course Delivery:	Classroom

EDPS **Foundations of Educational Research** [LINK \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800)

800

Prereqs:
[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)/[859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent or parallel [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Purposes and characteristics of research process, selection of research

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

problems in education and social sciences, critical review of published research, research ethics and institutional review, sampling methods, threats to validity in research.

EDPS

845

Computer-Assisted Research Data Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/845\)](http://bulletin.unl.edu/courses/EDPS/845)

Prereqs:

One statistics course beyond [EDPS 859](http://bulletin.unl.edu/courses/EDPS/859) (<http://bulletin.unl.edu/courses/EDPS/859>)

Pass/No Pass only.

Statistical software packages for both mainframe and microcomputers. How to develop and manage data files; how to transfer data files between computers; and principles of data transformation and selection.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

846

Foundations of Health Behavior

Crosslisted as *NUTR 846*

[LINK \(http://bulletin.unl.edu/courses/EDPS/846\)](http://bulletin.unl.edu/courses/EDPS/846)

The epidemiological, developmental and cognitive foundation of health-related behaviors and identifies opportunities for health promotion and education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

847

Theoretical Models of Health Behavior Change

Crosslisted as *NUTR 847*

[LINK \(http://bulletin.unl.edu/courses/EDPS/847\)](http://bulletin.unl.edu/courses/EDPS/847)

Application of widely used theoretical models of health behavior change. Specification of behaviors and development and evaluation of theory-based interventions to reduce health-related risks.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

850

Child Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850)

This course is a prerequisite for: [EDPS 960](http://bulletin.unl.edu/courses/EDPS/960) (<http://bulletin.unl.edu/courses/EDPS/960>), [EDPS 961](http://bulletin.unl.edu/courses/EDPS/961) (<http://bulletin.unl.edu/courses/EDPS/961>), [EDPS 962](http://bulletin.unl.edu/courses/EDPS/962) (<http://bulletin.unl.edu/courses/EDPS/962>), [EDPS 963](http://bulletin.unl.edu/courses/EDPS/963) (<http://bulletin.unl.edu/courses/EDPS/963>)

Advanced study of the behavior and development of preschool and elementary school children.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

853

Psychological Assessment I

[LINK \(http://bulletin.unl.edu/courses/EDPS/853\)](http://bulletin.unl.edu/courses/EDPS/853)

Prereqs:

[EDPS 870](http://bulletin.unl.edu/courses/EDPS/870) (<http://bulletin.unl.edu/courses/EDPS/870>) or equivalent

This course is a prerequisite for: [EDPS 956](http://bulletin.unl.edu/courses/EDPS/956) (<http://bulletin.unl.edu/courses/EDPS/956>)

Basic assessment and testing skills including "behavioral observation", psychometric issues, intake/diagnostic interviewing, psychological testing, test interpretation feedback, and integrative report writing. Commonly used screening instruments, personality tests, career interest inventories, and symptom-based tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

Applications of Selected Advanced Statistics

[LINK \(http://bulletin.unl.edu/courses/EDPS/860\)](http://bulletin.unl.edu/courses/EDPS/860)

860**Prereqs:****EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>)

Variety of parametric and nonparametric analyses, including analysis of variance (completely randomized design and various factorial designs), regression analysis, analysis of covariance, full model stepwise multiple regression, chi square Mann–Whitney U, and Wilcoxon test. Understanding and application of these analyses. Appropriate mainframe and microcomputer statistical packages utilized to assist in the numerical analysis of data.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

866**Counseling Pre–Practicum**[LINK \(http://bulletin.unl.edu/courses/EDPS/866\)](http://bulletin.unl.edu/courses/EDPS/866)

Counseling skills required for basic, entry–level clinical work. Practicing skills, receiving peer/instructor performance feedback, and role–playing clinical situations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

867**Roles and Functions in School Psychological Services**[LINK \(http://bulletin.unl.edu/courses/EDPS/867\)](http://bulletin.unl.edu/courses/EDPS/867)

Foundations, models, and practices of contemporary school psychology and an exploration of transitions and future developments in the profession. Investigations of the major legal and ethical systems affecting specialists in the schools and the application of standards for ethical professional practice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

868**Multicultural Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/868\)](http://bulletin.unl.edu/courses/EDPS/868)**Prereqs:****EDPS *866 or comparable course or permission**

Ethnic subcultures in the US, cross–cultural communication systems, and change strategies. Cultural cues and barriers in counseling, personal assumptions and values, and active experiencing of cultural diversity in the counseling relationship.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDPS/890\)](http://bulletin.unl.edu/courses/EDPS/890)

Refer to Workshop Seminars in Education under the “Education” section of this bulletin.

Credit Hours:	1–12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

893**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDPS/893\)](http://bulletin.unl.edu/courses/EDPS/893)

Refer to Workshop Seminars in Education under the “Education” section of this bulletin.

Credit Hours:	1–12
Max credits per degree:	12
Campus:	

EDPS

897J**Gifted/Talented**[LINK \(http://bulletin.unl.edu/courses/EDPS/897J\)](http://bulletin.unl.edu/courses/EDPS/897J)

Campus:

Course Delivery: Classroom

EDPS

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/EDPS/899\)](http://bulletin.unl.edu/courses/EDPS/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

EDPS

900A**Correlational and Experimental Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Integrated view of correlational and experimental research in education and social sciences. Builds on idea of relationships among variables and concept of casual relationships between variables. Possible research designs in light of these general principles.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

900B**Single Case/Small N Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

General issues related to the use of single case and/or small N methods, in which individuals are observed over time before and subsequent to experimental intervention. Comparison to traditional experimental methods. Repeated measurement techniques. Various research designs appropriate to single case methods.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

900D**Survey Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Principles and applications of survey research. Use of appropriate sampling techniques and applications of survey methods to the study of relative incidence, distribution, and interrelations of educational, sociological, and psychological variables.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

Historical Methods in Educational Research[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)

Crosslisted as EDAD 900J

900J

Prereqs:
EDPS *800 or equivalent; [EDPS 459](http://bulletin.unl.edu/courses/EDPS/459)
(<http://bulletin.unl.edu/courses/EDPS/459>)/[859](http://bulletin.unl.edu/courses/EDPS/859)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS **900K** Qualitative Approaches to Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Prereqs:
[EDPS 459](http://bulletin.unl.edu/courses/EDPS/459) (<http://bulletin.unl.edu/courses/EDPS/459>)/[859](http://bulletin.unl.edu/courses/EDPS/859)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Uses of qualitative research methods in education. The theoretical premises of research using qualitative methods and the application of this information through critique and planning research. Qualitative methods for data collection.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **905** Research and Evaluation Literature on Health Promotion

Crosslisted as *NUTR 905*

[LINK \(http://bulletin.unl.edu/courses/EDPS/905\)](http://bulletin.unl.edu/courses/EDPS/905)

Philosophical and empirical review and critique of contemporary literature on school, community, work place and health care-based health promotion and education programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **935** Seminar in Qualitative Research

Crosslisted as *TEAC 935*

[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)

Prereqs:
[EDUC 900K](http://bulletin.unl.edu/courses/EDUC/900K) (<http://bulletin.unl.edu/courses/EDUC/900K>) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **936** Mixed Methods Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/936\)](http://bulletin.unl.edu/courses/EDPS/936)

Prereqs:
[EDUC 800](http://bulletin.unl.edu/courses/EDUC/800) (<http://bulletin.unl.edu/courses/EDUC/800>) or equivalent, and [EDUC 900K](http://bulletin.unl.edu/courses/EDUC/900K) (<http://bulletin.unl.edu/courses/EDUC/900K>)

[EDPS 936](http://bulletin.unl.edu/courses/EDPS/936) (<http://bulletin.unl.edu/courses/EDPS/936>) is for students already familiar with quantitative and qualitative research. An introduction to mixed methods research as a distinct methodology in social science research. Topics include the value and use of this approach, philosophical assumptions, various types of design, and approaches to designing and conducting mixed methods research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS **941** Intermediate Statistics: Experimental Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/941\)](http://bulletin.unl.edu/courses/EDPS/941)

941Crosslisted as *SRAM 941***Prereqs:****EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>)

Computation, interpretation, and application of analysis of variance techniques, including factorial and mixed model designs. Computer and microcomputer software accessed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

942**Intermediate Statistics: Correlational Methods**Crosslisted as *SRAM 942*[LINK \(http://bulletin.unl.edu/courses/EDPS/942\)](http://bulletin.unl.edu/courses/EDPS/942)**Prereqs:****EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Various correlational-based statistical procedures presented, including linear and nonlinear regression, multiple regression, statistical control, analysis of interactions, the general linear model, factor analysis, and discriminant analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

948**Multicultural Issues in School Psychological Service Delivery**[LINK \(http://bulletin.unl.edu/courses/EDPS/948\)](http://bulletin.unl.edu/courses/EDPS/948)

Current issues related to psycho-educational service delivery to children and families from different cultural and linguistic backgrounds. Integrating research and field experiences to provide students with skills to develop, implement, and deliver culturally sensitive and effective school psychological services.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

949**Cognitive and Behavioral Therapy with Children and Adolescents**[LINK \(http://bulletin.unl.edu/courses/EDPS/949\)](http://bulletin.unl.edu/courses/EDPS/949)**Prereqs:****Permission**This course is a prerequisite for: **EDPS 955** (<http://bulletin.unl.edu/courses/EDPS/955>)

Cognitive and behavioral techniques. Theoretical issues, application and evaluation of major empirically-validated therapeutic treatments that represent best practices in child and adolescent therapy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

950**Intellectual Assessment**[LINK \(http://bulletin.unl.edu/courses/EDPS/950\)](http://bulletin.unl.edu/courses/EDPS/950)**Prereqs:**or coreq: **EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>), **870** (<http://bulletin.unl.edu/courses/EDPS/870>), and permissionThis course is a prerequisite for: **EDPS 951** (<http://bulletin.unl.edu/courses/EDPS/951>)

Formal evaluative methods for the investigation of children's learning difficulties, including supervised practicum in administration, scoring, and interpretation of individually administered tests of cognitive abilities.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDPS

951**Academic and Behavioral Assessment**[LINK \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951)**Prereqs:**

Credit Hours:	1-4
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EDPS 950 (<http://bulletin.unl.edu/courses/EDPS/950>) and permission

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Advanced study of the theory and practice in the assessment of educational and psychological problems of children and youth to include assessment of systems that impact on the behavior of children and youth. Assessment techniques include environmental observation, interviewing, standardized assessment procedures for academic skills, adaptive behavior, social and emotional problems, curriculum based assessment, and functional analysis and assessment. Ecological-behavioral basis of assessment is explored. A complete psychological and educational evaluation is conducted in a school or other relevant setting.

Campus:

Course Delivery: Classroom

EDPS

952

Systems of Consultation in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/952\)](http://bulletin.unl.edu/courses/EDPS/952)

Prereqs:

[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863)

Intensive analysis of the theory and practice of various systems of mental health consultation in the schools with special emphasis and practicum with mental health service models other than conventional clinical, psychometric, and direct psychoeducational remediation models.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

953

Psychological Assessment II

[LINK \(http://bulletin.unl.edu/courses/EDPS/953\)](http://bulletin.unl.edu/courses/EDPS/953)

Prereqs:

EDPS *853 or equivalent

This course is a prerequisite for: [EDPS 956 \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Advanced assessment and testing skills. Selection, administration and interpretation of a battery of psychological tests and integration and synthesis of relevant test and non-test data into an accessible report writing format. Development of effective consultation and test interpretation feedback skills.

Credit Hours: 4

Campus:

Course Delivery: Classroom

EDPS

954

Interventions in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Prereqs:

[EDPS 463 \(http://bulletin.unl.edu/courses/EDPS/463\)](http://bulletin.unl.edu/courses/EDPS/463)/[863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863), [EDPS 951 \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951) or parallel; and permission

Prepares school psychologists to plan and provide evidence-based psychoeducational interventions for children, youth, families and schools. Application of ecobehavioral theory, models of school mental health, the scientist-practitioner model, the practice of psychotherapy, and empirical evidence of the effectiveness of interventions for culturally and linguistically diverse students.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

955

Child Therapy

[LINK \(http://bulletin.unl.edu/courses/EDPS/955\)](http://bulletin.unl.edu/courses/EDPS/955)

Prereqs:

[EDPS 949 \(http://bulletin.unl.edu/courses/EDPS/949\)](http://bulletin.unl.edu/courses/EDPS/949)

Advanced practicum course that facilitates students' scholarly acquisition of principles and concepts relevant to conducting therapy, and provides opportunities for practical integration of knowledge and skills essential to conducting individual, group, and family psychotherapy. Students acquire

Credit Hours: 4

Max credits per degree: 12

Campus:

Course Delivery: Classroom

competencies in developing, implementing and evaluating interventions by conducting therapy sessions, observing sessions, exchanging feedback with peers, and receiving supervision.

EDPS

956

Projective Psychological Assessment

[LINK \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Prereqs:

[EDPS 853 \(http://bulletin.unl.edu/courses/EDPS/853\)](http://bulletin.unl.edu/courses/EDPS/853), and [EDPS 953 \(http://bulletin.unl.edu/courses/EDPS/953\)](http://bulletin.unl.edu/courses/EDPS/953). Permission may be granted by Instructor to take Psychological Assessment II after Projective Psychological Assessment.

The primary goal of this course is to assist doctoral students in developing their ability to utilize projective assessment techniques to integrate information from a variety of sources about a person (an adult or older adolescent) into an integrated, useful psychological report. The broad array of data will include not only the results of formal tests (e.g., the Rorschach), but also personal and family history, and behavioral observations.

Credit Hours:	4
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

958B

Practicum in School Psychology Consultation Techniques

[LINK \(http://bulletin.unl.edu/courses/EDPS/958B\)](http://bulletin.unl.edu/courses/EDPS/958B)

Prereqs:

[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863), [952 \(http://bulletin.unl.edu/courses/EDPS/952\)](http://bulletin.unl.edu/courses/EDPS/952), [997D \(http://bulletin.unl.edu/courses/EDPS/997D\)](http://bulletin.unl.edu/courses/EDPS/997D) or equivalent, and permission

Practicum experience in ecological/behavioral, mental health, and organizational consultation techniques within a school or related setting. Supplemented by individual and small group supervisory/feedback sessions each week.

Credit Hours:	1-4
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

EDPS

960

Problem Solving and Concept Learning in Humans

[LINK \(http://bulletin.unl.edu/courses/EDPS/960\)](http://bulletin.unl.edu/courses/EDPS/960)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and [854 \(http://bulletin.unl.edu/courses/EDPS/854\)](http://bulletin.unl.edu/courses/EDPS/854)

Critical examination of the non-Piagetean research literature and theory which examines higher mental processes in humans through the lifespan.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

961

Cognitive Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/961\)](http://bulletin.unl.edu/courses/EDPS/961)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and permission

Critical examination of theories and research on cognitive development throughout the lifespan, including Piagetean and alternative perspectives.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

962

Research Literature in Personality and Social Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/962\)](http://bulletin.unl.edu/courses/EDPS/962)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851](http://bulletin.unl.edu/courses/EDPS/851)

Credit Hours:	3
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<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Critical examination of the concepts and principles derived from the study of personality and social development with special emphasis on the research literature.

Campus:

Course Delivery: Classroom

EDPS

963

Developmental Psychobiology

[LINK \(http://bulletin.unl.edu/courses/EDPS/963\)](http://bulletin.unl.edu/courses/EDPS/963)

Prereqs:

EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Biological foundations of human psychological development, including anatomical, physiological, and evolutionary considerations.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

964

Counseling Theories and Intervention Techniques

[LINK \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964)

Prereqs:

EDPS *866

Parallel: EDPS 997A (<http://bulletin.unl.edu/courses/EDPS/997A>) and permission of counseling area. Overview of theoretical approaches to counseling. Close examination of selected theories and intervention procedures.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

965A

Group Counseling: Social Psychological Aspects

[LINK \(http://bulletin.unl.edu/courses/EDPS/965A\)](http://bulletin.unl.edu/courses/EDPS/965A)

Prereqs:

EDPS *866

Parallel: EDPS 964 (<http://bulletin.unl.edu/courses/EDPS/964>) and 997A (<http://bulletin.unl.edu/courses/EDPS/997A>). Develops student competencies in analyzing organizational contexts, designing group counseling experiences, and evaluating group experiences.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

966

Psychology of Learning

[LINK \(http://bulletin.unl.edu/courses/EDPS/966\)](http://bulletin.unl.edu/courses/EDPS/966)

Prereqs:

EDPS 854 (<http://bulletin.unl.edu/courses/EDPS/854>) and 870 (<http://bulletin.unl.edu/courses/EDPS/870>)

Theories of learning and experimental investigation in the field of animal and human behavior and their application to the classroom.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

967

Psychology of Motivation in Education

[LINK \(http://bulletin.unl.edu/courses/EDPS/967\)](http://bulletin.unl.edu/courses/EDPS/967)

Prereqs:

Graduate standing

EDPS 854 (<http://bulletin.unl.edu/courses/EDPS/854>)

Psychology of Motivation focuses on understanding and impacting students' motivation to learn. Theories discussed in this class are applicable to a wide array of achievement settings (e.g., math, science, writing, health education) as well as more general motivational concerns (e.g., studying, addiction, video games). Content covered includes drive theory, behaviorism as

Credit Hours: 3

Course Delivery: Classroom

motivation, achievement motivation, goal theory, self-determination theory, social cognitive theory, and ecological theories of motivation.

EDPS

968

Gender and Counseling Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/968\)](http://bulletin.unl.edu/courses/EDPS/968)

Prereqs:

Admitted as a graduate student in the Counseling Psychology program.

The major purpose of this course is for students to learn about gender issues within the field of counseling psychology from a multicultural and feminist perspective and to gain the essential knowledge and techniques in working with gender issues in diverse settings.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDPS

969

Nonparametric Statistical Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/969\)](http://bulletin.unl.edu/courses/EDPS/969)

Prereqs:

EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Presentation of statistical procedures that do not require fundamental assumptions about the distribution property of the variables to be analyzed. Chi Square tests, rank tests of location (Wilcoxon, Mann Whitney, Kruskal-Wallis, Friedman), tests of goodness of fit (Chi Square, Kolmogorov-Smirnoff), tests of randomness (Runs).

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

97

College Major Forum

[LINK \(http://bulletin.unl.edu/courses/EDPS/97\)](http://bulletin.unl.edu/courses/EDPS/97)

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B), [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

EDPS 97 (http://bulletin.unl.edu/courses/EDPS/97) is Pass/No Pass only.

This is an eight week seminar course for first semester students in the General Studies Learning Community. Students will complete activities to identify interests, research majors that match their interests and complete a "Guided Professional Shadowing" experience to gain first-hand knowledge about a career of their choice.

Credit Hours:	0
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

970

Theory and Methods of Educational Measurement

Crosslisted as *SRAM 970*

[LINK \(http://bulletin.unl.edu/courses/EDPS/970\)](http://bulletin.unl.edu/courses/EDPS/970)

Prereqs:

EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) and 870 (<http://bulletin.unl.edu/courses/EDPS/870>); EDPS/SRAM 941 (<http://bulletin.unl.edu/courses/SRAM/941>); or equivalent

Presentation of various measurement theories and concepts, including classical true-score theory, reliability and validity, test construction, item response theory, test equating, test bias, and criterion-referenced tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

971

Structural Equation Modeling

Crosslisted as *SRAM 971*

[LINK \(http://bulletin.unl.edu/courses/EDPS/971\)](http://bulletin.unl.edu/courses/EDPS/971)

Prereqs:

EDPS/SRAM 942 (<http://bulletin.unl.edu/courses/SRAM/942>) and 970 (<http://bulletin.unl.edu/courses/SRAM/970>); or equivalent

Introduction to the techniques of path analysis, confirmatory factor analysis,

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

and structural equation modeling with emphasis on the set-up and interpretation of different models using the LISREL program. Model testing and evaluation, goodness-of-fit indices, violations of assumptions, specification searches, and power analyses.

EDPS

972

Multivariate Analysis

Crosslisted as *SRAM 972*

[LINK \(http://bulletin.unl.edu/courses/EDPS/972\)](http://bulletin.unl.edu/courses/EDPS/972)

Prereqs:

[EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/SRAM/941\)](http://bulletin.unl.edu/courses/SRAM/941) and [942 \(http://bulletin.unl.edu/courses/SRAM/942\)](http://bulletin.unl.edu/courses/SRAM/942)

Techniques of multivariate analyses, including multivariate analysis of variance and covariance, multivariate multiple regression, multigroup discriminant analysis, canonical analysis, repeated measures (Multivariate model), and time series. Mathematical models presented and analyzed. Instruction complemented by appropriate statistical software packages.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

973A

Evaluation Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A)

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Theories and strategies of evaluation examined within the context of society at large and educational and human service programs in particular. Key evaluation models examined as they relate to judgments and decisions about programs. Methodological, social, and political issues in evaluation which pertain equally to an educational program or a human service agency.

Credit Hours: 2-3

Course Format: Lecture

Campus:

Course Delivery: Classroom

EDPS

973B

Evaluation Practicum

[LINK \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Prereqs:

[EDPS 973A \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A) or permission

Actual supervised evaluation of a program or project.

Credit Hours: 2-3

Campus:

Course Delivery: Classroom

EDPS

974

Guidance and Counseling in Schools

[LINK \(http://bulletin.unl.edu/courses/EDPS/974\)](http://bulletin.unl.edu/courses/EDPS/974)

Survey of elementary, middle and secondary school comprehensive models of guidance. Ingredients of effective helping relationships with students in schools. Analysis of school violence, risk assessment models, multicultural influences, prevention models, and guidance roles of teachers/administrators.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

975

Occupations and Vocational Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/975\)](http://bulletin.unl.edu/courses/EDPS/975)

Evaluation and uses of occupational and educational information; job analysis; psychological and behavioral attributes relating to work and life-styles; occupational taxonomies; career-development theories; impact of accelerating changes on personal and social planning; investigations of value-oriented expectations as sources of work satisfaction and dissatisfaction; critical assessment of the concept of vocational choice. For counselors and educators.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

976**Advanced Counseling Psychology I: Counseling Theory and Practice** (<http://bulletin.unl.edu/courses/EDPS/976>)**Prereqs:****Doctoral level counseling students and others by permission**This course is a prerequisite for: [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

Counseling methodology in relationship to personality theory and research. Consideration of various theories and research in relation to counseling practice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

977**Seminar in College Student Development**Crosslisted as *EDAD 980*[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS

978**Advanced Counseling Psychology II: Research in Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)**Prereqs:**

EDPS 976 (<http://bulletin.unl.edu/courses/EDPS/976>); **EDUC 900A** (<http://bulletin.unl.edu/courses/EDUC/900A>) and either **EDUC 900B** (<http://bulletin.unl.edu/courses/EDUC/900B>) or **900K** (<http://bulletin.unl.edu/courses/EDUC/900K>)

Research strategies appropriate for counseling psychology. Identification of researchable problem and completion of research proposal including literature review, design, and proposed data analysis procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

980**Item Response Theory**[LINK \(http://bulletin.unl.edu/courses/EDPS/980\)](http://bulletin.unl.edu/courses/EDPS/980)**Prereqs:**

EDPS 870 (<http://bulletin.unl.edu/courses/EDPS/870>) and **970** (<http://bulletin.unl.edu/courses/EDPS/970>); or permission

Principles of item response theory (IRT) and its application to a variety of issues in educational and psychological measurement. Theoretical foundations of IRT discussed along with its assumptions and varied applications. Experience using IRT calibration and scoring computer software.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

981**School Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/981\)](http://bulletin.unl.edu/courses/EDPS/981)**Prereqs:****by permission of course instructor**

Supervised practice in local school districts related to academic, social, behavioral and emotional disorders of children and adolescents.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	8
Course Format:	Field, Lab, Lecture
Campus:	
Course Delivery:	Classroom

EDPS

982**Clinical Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/982\)](http://bulletin.unl.edu/courses/EDPS/982)**Prereqs:**
by permission of course instructor

Supervised clinical practice related to academic, social, behavioral and emotional disorders of children and adolescents. Parent and family treatment and behavior interventions emphasized.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	16
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

983**Community Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/983\)](http://bulletin.unl.edu/courses/EDPS/983)**Prereqs:**
Doctoral standing in professional psychology program and permission

Supervised clinical experience working with children, adolescents and families in a variety of school and community settings.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	16
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

984**Ethics and Ethical Decision Making in Counseling and Education**[LINK \(http://bulletin.unl.edu/courses/EDPS/984\)](http://bulletin.unl.edu/courses/EDPS/984)

Ethical principles in the practice of counseling. Application of ethical guidelines and development of ethical decision-making models relevant to school and mental health contents.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

985**Couple and Family Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/985\)](http://bulletin.unl.edu/courses/EDPS/985)**Prereqs:**
EDPS *866 or equivalent

Couple and family systems and change strategies. Active, brief forms of couple and family counseling and enrichment formats.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

987**Developmental Perspectives on Gender and Sexuality in Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/987\)](http://bulletin.unl.edu/courses/EDPS/987)

Issues related to gender and sexuality in the process of counseling and psychotherapy. Developmental issues related to gender differences, gender bias, gender identity, gender discrimination, and gender-based disorders. Feminist and affirmative therapy techniques.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

989**Psychology of Reading**Crosslisted as *TEAC 989*[LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)**Prereqs:**
TEAC *811 or 841 or SPED 886
(<http://bulletin.unl.edu/courses/SPED/886>)

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

EDPS

990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/990\)](http://bulletin.unl.edu/courses/EDPS/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDPS

991

Seminar in Educational Psychology and Measurements

[LINK \(http://bulletin.unl.edu/courses/EDPS/991\)](http://bulletin.unl.edu/courses/EDPS/991)

Prereqs:
Permission

Credit Hours:	1-12
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDPS

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/993\)](http://bulletin.unl.edu/courses/EDPS/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDPS

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/995\)](http://bulletin.unl.edu/courses/EDPS/995)

Prereqs:
Permission

EDPS 995 (http://bulletin.unl.edu/courses/EDPS/995) is intended primarily for EDPS doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor.

Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3-4
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

EDPS

996A

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/EDPS/996A\)](http://bulletin.unl.edu/courses/EDPS/996A)

Independent operational research under faculty supervision.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

996B

Readings in Educational Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/996B\)](http://bulletin.unl.edu/courses/EDPS/996B)

Prereqs:
Permission

Readings on selected problems in educational psychology.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	

Course Delivery: Classroom

EDPS
997A Practicum in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Prereqs:
Masters admission in educational psychology or permission of counseling area, EDPS *866

This course is a prerequisite for: [EDPS 997B \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B),
[EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Parallel: [EDPS 964 \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964). Supervised laboratory clinic-based experiences in counseling.

Credit Hours: 2-4

Campus:

Course Delivery: Classroom

EDPS
997B Field Placement in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B)

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Supervised field experiences in school counseling, college student personnel, and community social service agencies.

Credit Hours: 2-4

Campus:

Course Delivery: Classroom

EDPS
997D Practicum in Behavior Management Technologies

[LINK \(http://bulletin.unl.edu/courses/EDPS/997D\)](http://bulletin.unl.edu/courses/EDPS/997D)

Prereqs:
[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863) and permission

Supervised practicum in the design, implementation, evaluation, and reporting of various behavior modification technologies for individuals and groups; social systems engineering.

Credit Hours: 3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDPS
997E Practicum in Counselor Supervision and Consultation

[LINK \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Prereqs:
[EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G) or equivalent

Supervised counseling supervision and consultation experience emphasizing process methods and evaluation.

Credit Hours: 2

Campus:

Course Delivery: Classroom

EDPS
997G Advanced Practicum in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A) and permission

This course is a prerequisite for: [EDPS 997E \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Supervised counseling experience in university, schools, and community agencies.

Credit Hours: 2-4

Campus:

Course Delivery: Classroom

EDPS
997J Advanced Practicum in Gifted Education

[LINK \(http://bulletin.unl.edu/courses/EDPS/997J\)](http://bulletin.unl.edu/courses/EDPS/997J)

Crosslisted as *SPED 997J*

Prereqs:
Permission

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
997K **Supervision in School Psychology**

[LINK \(http://bulletin.unl.edu/courses/EDPS/997K\)](http://bulletin.unl.edu/courses/EDPS/997K)

Prereqs:
Doctoral standing in professional psychology program and permission.

Supervised experience in supervising graduate students in practicum settings. Refinement of consultation, assessment, diagnosis, and treatment skills.

Credit Hours: 3-4

Max credits per semester: 8

Max credits per degree: 8

Course Format: Field, Lab, Lecture

Course Delivery: Classroom

EDPS
999 **Doctoral Dissertation**

[LINK \(http://bulletin.unl.edu/courses/EDPS/999\)](http://bulletin.unl.edu/courses/EDPS/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

PSYC
471/871 **Human Sexuality and Society**

[LINK \(http://bulletin.unl.edu/courses/PSYC/471\)](http://bulletin.unl.edu/courses/PSYC/471)

Crosslisted as *SOCI 471/871, EDPS 471/871, CYAF 471/871*

Prereqs:
Junior standing and 12 hrs in one of the departments in which the course is listed.

Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.).

Interdisciplinary approach to the study of human sexuality in terms of the psychological, social, cultural, anthropological, legal, historical, and physical characteristics of individual sexuality and sex in society.

Credit Hours: 3

Course Delivery: Classroom

SPED
892 **Special Topics in Education**

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours: 1-3

Max credits per degree: 12

Course Format: Lecture

Campus:

Course Delivery: Classroom

TEAC
930 **Sociological/Anthropological Research Methods in Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Crosslisted as *EDPS 930, CYAF 930, NUTR 930*

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

Credit Hours: 1-3

Max credits per degree: 15

- A. Ethnographic Methods (1–3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1–3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1–3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1–3 cr, max 3)
- J. Hermeneutic Traditions in Education (1–3 cr, max 3)
- K. Quantitative Research Traditions in Education (1–3 cr, max 3)

Campus:	
Course Delivery:	Classroom

Courses for SPED (SPED)

EDAD 855	Teaching Learners to Learn Crosslisted as <i>EDPS 855, NUTR 855, SPED 855, TEAC 855</i>	LINK (http://bulletin.unl.edu/courses/EDAD/855)
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Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 856	Supervising Special Education Crosslisted as <i>SPED 856</i>	LINK (http://bulletin.unl.edu/courses/EDAD/856)
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For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 857	Special Education Administration Crosslisted as <i>SPED 857</i>	LINK (http://bulletin.unl.edu/courses/EDAD/857)
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Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 858	Special Education Law Crosslisted as <i>SPED 858</i>	LINK (http://bulletin.unl.edu/courses/EDAD/858)
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Body of law that pertains to the organization, administration, and implementation of special education programs in PreK–12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS 997J	Advanced Practicum in Gifted Education Crosslisted as <i>SPED 997J</i>	LINK (http://bulletin.unl.edu/courses/EDPS/997J)
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Prereqs:
Permission

Credit Hours:	3
Campus:	

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Course Delivery: Classroom

SLPA
884

Speech and Language Development of the Hearing Impaired

LINK (<http://bulletin.unl.edu/courses/SLPA/884>)

Crosslisted as *SPED 884*

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SLPA
956

Language Study of Teachers of Deaf and Hard of Hearing (DHH)

LINK (<http://bulletin.unl.edu/courses/SLPA/956>)

Crosslisted as *SPED 956*

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SPED
400/800

Characteristics of Exceptional Persons

LINK (<http://bulletin.unl.edu/courses/SPED/400>)

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>), [SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>), [SPED 809](http://bulletin.unl.edu/courses/SPED/809) (<http://bulletin.unl.edu/courses/SPED/809>), [SPED 843](http://bulletin.unl.edu/courses/SPED/843) (<http://bulletin.unl.edu/courses/SPED/843>)

Etiology, growth and development, and characteristics of children and youth who deviate from the norm.

Credit Hours: 3

Course Delivery: Classroom

SPED
401A/801A

Accommodating Exceptional Learners in the Elementary School Classroom

LINK (<http://bulletin.unl.edu/courses/SPED/401A>)

Prereqs:
Admission to the Teacher Education Program; EDPS 362 (<http://bulletin.unl.edu/courses/EDPS/362>); **TEAC 195** (<http://bulletin.unl.edu/courses/TEAC/195>); **one methods course; or permission.**

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the elementary school.

Credit Hours: 3

Course Delivery: Classroom

SPED
401B/801B

Accommodating Exceptional Learners in the Secondary School Classroom

LINK (<http://bulletin.unl.edu/courses/SPED/401B>)

Prereqs:
Admission to the Teacher Education Program; EDPS 362 (<http://bulletin.unl.edu/courses/EDPS/362>); **TEAC 195** (<http://bulletin.unl.edu/courses/TEAC/195>); **one methods course; or permission.**

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of

Credit Hours: 3

Course Delivery: Classroom

the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the secondary school.

SPED

Code-based Reading Instruction

[LINK \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

405/805

Prereqs:

Parallel [SPED 405A \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A) / [805A \(http://bulletin.unl.edu/courses/SPED/805A\)](http://bulletin.unl.edu/courses/SPED/805A).

This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

Direct, systematic, multi-sensory techniques for teaching reading, writing and spelling to students who have severe reading problems.

Credit Hours:	1-3
Max credits per semester:	6
Course Format:	Lecture
Course Delivery:	Classroom

SPED

Reading Center Practicum I

[LINK \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A)

405A/805A

Prereqs:

Permission.

This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

[SPED 405A \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A) / [805A \(http://bulletin.unl.edu/courses/SPED/805A\)](http://bulletin.unl.edu/courses/SPED/805A) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, lesson planning and teaching using direct instruction, code-based instructional strategies.

Credit Hours:	1-3
Max credits per semester:	3
Course Format:	Field
Course Delivery:	Classroom

SPED

Reading and Writing Disabilities: Adolescents

[LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

406/806

Crosslisted as *TEAC 806*

Prereqs:

[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400) / [800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800), [SPED 412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412) / [812 \(http://bulletin.unl.edu/courses/SPED/812\)](http://bulletin.unl.edu/courses/SPED/812), and (TEAC 441 [\(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Parallel [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A) / [806A \(http://bulletin.unl.edu/courses/SPED/806A\)](http://bulletin.unl.edu/courses/SPED/806A).

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406).

[SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED

Reading Center Practicum II

[LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

406A/806A

Crosslisted as *TEAC 806A*

Prereqs:

[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400) / [800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800), [412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412) / [812 \(http://bulletin.unl.edu/courses/SPED/812\)](http://bulletin.unl.edu/courses/SPED/812), and (TEAC 441 [\(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Taken parallel with [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406) / [806 \(http://bulletin.unl.edu/courses/SPED/806\)](http://bulletin.unl.edu/courses/SPED/806).

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

[SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A/806A\)](http://bulletin.unl.edu/courses/SPED/406A/806A) (<http://bulletin.unl.edu/courses/SPED/806A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

SPED

407/807

Teaching Students with Disabilities in the Secondary School

[LINK \(http://bulletin.unl.edu/courses/SPED/407\)](http://bulletin.unl.edu/courses/SPED/407)

Prereqs:

[SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) or [400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)/[800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800).

This course is a prerequisite for: [SPED 408 \(http://bulletin.unl.edu/courses/SPED/408\)](http://bulletin.unl.edu/courses/SPED/408)

Information about the mildly/moderately disabled secondary-level student; including characteristics, assessment, models for programs, social skill training, behavior management, working with parents, and curriculum modification.

Credit Hours: 3

Course Delivery: Classroom

SPED

408/808

Issues in Secondary Programs for Students with Mild Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/408\)](http://bulletin.unl.edu/courses/SPED/408)

Prereqs:

Special Education Professional Semester and [SPED 407 \(http://bulletin.unl.edu/courses/SPED/407\)](http://bulletin.unl.edu/courses/SPED/407).

Issues in secondary education for students with mild disabilities based on current literature and needs of individual students.

Credit Hours: 3

Course Delivery: Classroom

SPED

412/812

Assessment Techniques for Diverse Learners

[LINK \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412)

Prereqs:

Sophomore standing; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) and [303 \(http://bulletin.unl.edu/courses/SPED/303\)](http://bulletin.unl.edu/courses/SPED/303).

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 415 \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

The role of general education teachers in the primary purposes of assessment of learners with diverse needs. Knowledge and experience with interpreting norm-referenced test information as related to planning educational programs. Use of assessment information for instructional planning and evaluation. Testing accommodations and classroom grading.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

SPED

414/814

Instructional Methods for Students with Diverse Needs

[LINK \(http://bulletin.unl.edu/courses/SPED/414\)](http://bulletin.unl.edu/courses/SPED/414)

Prereqs:

Sophomore standing; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) and [303 \(http://bulletin.unl.edu/courses/SPED/303\)](http://bulletin.unl.edu/courses/SPED/303).

This course is a prerequisite for: [SPED 415 \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

Instructional methods and accommodations for special education and

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

general education teachers necessary to work successfully with students with disabilities or who are at-risk for academic failure. Curriculum modification, classroom management, strategy instruction, and instructional modifications for content areas.

SPED

415/815

Reading and Writing Disabilities: Elementary Students

[LINK \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

Prereqs:

SPED 201 (<http://bulletin.unl.edu/courses/SPED/201>), **TEAC 311** (<http://bulletin.unl.edu/courses/TEAC/311>), **TEAC 313** (<http://bulletin.unl.edu/courses/TEAC/313>) for elementary education majors; **SPED 201** (<http://bulletin.unl.edu/courses/SPED/201>), **SPED 412** (<http://bulletin.unl.edu/courses/SPED/412>), and **SPED 414** (<http://bulletin.unl.edu/courses/SPED/414>) (or equivalent) for SPED majors. Must be taken with: **SPED 415A** (<http://bulletin.unl.edu/courses/SPED/415A>)/**815A** (<http://bulletin.unl.edu/courses/SPED/815A>).

This course is a prerequisite for: **SPED 415** (<http://bulletin.unl.edu/courses/SPED/415>)

Theory and techniques for assessing and teaching early literacy skills in small groups and one-on-one for children who struggle with literacy.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED

436/836

Career Education for the Special Needs Student

[LINK \(http://bulletin.unl.edu/courses/SPED/436\)](http://bulletin.unl.edu/courses/SPED/436)

Prereqs:

SPED 434 (<http://bulletin.unl.edu/courses/SPED/434>)/**834** (<http://bulletin.unl.edu/courses/SPED/834>) or permission.

Philosophical and practical base of career education as it relates to special needs students. Career education units developed for infusion into subject areas.

Credit Hours:	3
Course Delivery:	Classroom

SPED

463/863

Medically Fragile infants

[LINK \(http://bulletin.unl.edu/courses/SPED/463\)](http://bulletin.unl.edu/courses/SPED/463)

Prereqs:

Major in Special Education, Speech-language Pathology or Child Youth and Family Studies. Senior status or permission of instructor.

Unique needs, family-coping strategies, specialized medical staff and various health care settings for chronically ill infants, toddlers and preschool age children. Overview of etiology, characteristics and developmental implications of selected medical conditions related to developmental disabilities.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Web

SPED

472/872

Psychology and Sociology of Deafness

[LINK \(http://bulletin.unl.edu/courses/SPED/472\)](http://bulletin.unl.edu/courses/SPED/472)

Education of the hearing impaired including history of, professional roles in, and educational programming within this field. Social/psychological theories as related to the hearing impaired. Patterns of social/emotional development, psychological characteristics, issues of family stress and social adaptation and discussion of counseling techniques.

Credit Hours:	3
Course Delivery:	Classroom

SPED

480/880

Educating Students with Intellectual Impairments & Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/480\)](http://bulletin.unl.edu/courses/SPED/480)

This course is a prerequisite for: [SPED 881 \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)

Concepts related to history, definitions, identification, etiology, and assessment of students with intellectual impairments and developmental disabilities. Examine attitudes, assumptions, and stereotypes concerning persons with intellectual impairments and other developmental disabilities. Instructional methods, adaptations and teaming to provide individualized interventions and include students in least restrictive environments/general education settings. Applied assignments will be conducted in field experience and student teaching.

Credit Hours:	3
Course Delivery:	Classroom, Web

SPED **Independent Study in Special Education**
495/895

[LINK \(http://bulletin.unl.edu/courses/SPED/495\)](http://bulletin.unl.edu/courses/SPED/495)

Prereqs:
Prior arrangements with faculty member and permission.

Special research or reading project under direction of a staff member in the department.

Credit Hours:	1-3
Course Delivery:	Classroom

SPED **Directed Field Experience**
496/896

[LINK \(http://bulletin.unl.edu/courses/SPED/496\)](http://bulletin.unl.edu/courses/SPED/496)

Prereqs:
Permission.

Pass/No Pass only for [SPED 496 \(http://bulletin.unl.edu/courses/SPED/496\)](http://bulletin.unl.edu/courses/SPED/496) section. [SPED 896 \(http://bulletin.unl.edu/courses/SPED/896\)](http://bulletin.unl.edu/courses/SPED/896) is graded.

E. Field Experience: General Special Education (1-6 cr, max 12) M. Field Experience: Mild/Moderate (1-6 cr, max 12) Y. Field Experience: Inclusion (1-6 cr, max 12)

Credit Hours:	1-6
Max credits per semester:	12
Course Format:	Field
Course Delivery:	Classroom

SPED **Directed Field Experience: Inclusion**
496Y/896Y

[LINK \(http://bulletin.unl.edu/courses/SPED/496Y\)](http://bulletin.unl.edu/courses/SPED/496Y)

Prereqs:
Permission.

Pass/No Pass only for [SPED 496 \(http://bulletin.unl.edu/courses/SPED/496\)](http://bulletin.unl.edu/courses/SPED/496) section. [SPED 896 \(http://bulletin.unl.edu/courses/SPED/896\)](http://bulletin.unl.edu/courses/SPED/896) is graded.

Credit Hours:	1-6
Max credits per semester:	12
Course Format:	Field
Course Delivery:	Classroom

SPED **Advanced Assessment Techniques**
802

[LINK \(http://bulletin.unl.edu/courses/SPED/802\)](http://bulletin.unl.edu/courses/SPED/802)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) or equivalent; or permission

Comprehensive study of criterion-referenced and normative-referenced assessment instruments used by school resource personnel.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED **Effective Instruction for Learners with Special Needs**
803

[LINK \(http://bulletin.unl.edu/courses/SPED/803\)](http://bulletin.unl.edu/courses/SPED/803)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) and *802; or permission

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Interaction of classroom-based assessment and effective instructional strategies for use with individual and group formats. Development of individual education plans, curriculum analysis, delivery of instruction, curriculum-based measurement, and specific and generic instructional strategies.

SPED **804** **Managing Challenging Behavior**

[LINK \(http://bulletin.unl.edu/courses/SPED/804\)](http://bulletin.unl.edu/courses/SPED/804)

Prereqs:
[SPED 800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800), *802, *803; or permission

Functional approaches that can be used by teachers and mental health practitioners for assessing, preventing, and managing children's challenging behavior. Basics of applied behavior analysis, functional analyses of behavior, individual- and group-oriented interventions, self-management training, and strategies for promoting generalization.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED **809** **Autism Spectrum Disorders (ASDs): Effective Assessment and Intervention**

[LINK \(http://bulletin.unl.edu/courses/SPED/809\)](http://bulletin.unl.edu/courses/SPED/809)

Prereqs:
[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400) / [800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800) or equivalent

SPED 809 (http://bulletin.unl.edu/courses/SPED/809) requires observation in schools and applied assignments.

Designed for educators of children and youth with Autism Spectrum Disorders (ASDs) in school settings. Assessment strategies to identify characteristics of ASDs focused on individual needs and strengths-based outcomes. Knowledge and skills regarding evidence-based practices and individualized educational programs.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **810** **Autism Spectrum Disorders (ASDs): Methods and Program Planning**

[LINK \(http://bulletin.unl.edu/courses/SPED/810\)](http://bulletin.unl.edu/courses/SPED/810)

Prereqs:
SPED *809 or equivalent

*Majors in severe disabilities must parallel with SPED *896P (1 cr). SPED *810 requires observations in schools and applied assignments.*

Planning, implementing, and evaluating effective education for individuals with Autism Spectrum Disorders (ASDs). Uses an ecological approach to assess present levels of performance and individual characteristics. Apply assessment outcomes to develop functional outcomes, to select instructional strategies, and utilize empirically-based interventions.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **820** **Mathematics Instruction for Diverse Learners**

[LINK \(http://bulletin.unl.edu/courses/SPED/820\)](http://bulletin.unl.edu/courses/SPED/820)

Prereqs:
[SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) or [400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400) or [800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800)

*SPED *820 and associated practicum is designed to meet professional standards (i.e., Council for Exceptional Children, Teacher Education Accreditation Council) for teachers in the area of instruction for diverse learners.*

Supplemental basic skills and concepts instruction for diverse learners within a response to intervention models and on mathematics instruction.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Selection, delivery, and evaluation of standard protocol and individualized interventions to diverse learners.

SPED

824

Functional Behavioral Assessment

[LINK \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824)

Prereqs:

[SPED 303 \(http://bulletin.unl.edu/courses/SPED/303\)](http://bulletin.unl.edu/courses/SPED/303) or equivalent.
[Parallel SPED 824A \(http://bulletin.unl.edu/courses/SPED/824A\)](http://bulletin.unl.edu/courses/SPED/824A).

This course is a prerequisite for: [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824),
[SPED 824A \(http://bulletin.unl.edu/courses/SPED/824A\)](http://bulletin.unl.edu/courses/SPED/824A)

Functional behavioral assessments (FBAs) and development of behavior intervention plans (BIPs) based on the assessments. Contextual and curriculum manipulations, and replacement behavior training.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

824A

Practicum in Functional Behavioral Assessment

[LINK \(http://bulletin.unl.edu/courses/SPED/824A\)](http://bulletin.unl.edu/courses/SPED/824A)

Prereqs:

[SPED 303 \(http://bulletin.unl.edu/courses/SPED/303\)](http://bulletin.unl.edu/courses/SPED/303) or approved equivalent. [Parallel SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824).

This course is a prerequisite for: [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824)

Opportunities to engage in the activities and practice the skills associated with [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824). Culmination of the practicum is performing a complete functional behavioral assessment and developing a behavior intervention plan for a student who displays challenging behaviors.

Credit Hours:	2
Course Format:	Field
Campus:	
Course Delivery:	Classroom

SPED

833

Behavioral Systems and Interventions

[LINK \(http://bulletin.unl.edu/courses/SPED/833\)](http://bulletin.unl.edu/courses/SPED/833)

Prereqs:

[SPED 813 \(http://bulletin.unl.edu/courses/SPED/813\)](http://bulletin.unl.edu/courses/SPED/813) or equivalent

Three-tier models for encouraging and maintaining students' appropriate behaviors. Evaluation and implementation of interventions at the school-wide, classroom and/or small group, and individual levels. Presentation of different models i.e., Response to Intervention (RtI) and School-Wide Positive Behavior Support (SWPBS).

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

834

Introduction to Special Vocational Needs

[LINK \(http://bulletin.unl.edu/courses/SPED/834\)](http://bulletin.unl.edu/courses/SPED/834)

Foundational course emphasizing the characteristics and identification of special needs learners in vocational settings. Determines needs, interests, and abilities of these students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

841

Emotional and Behavioral Disorders

[LINK \(http://bulletin.unl.edu/courses/SPED/841\)](http://bulletin.unl.edu/courses/SPED/841)

Prereqs:

[SPED 800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800) or permission

Etiology, theories and assessment of child and adolescent emotional and behavioral disorders. Addresses issues of definitions and classification

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

(DSM-IV and special education) or deviant behavior and psychopathology, as well as an overview of service delivery systems in education and mental health.

SPED
843

Characteristics of Emotional and Learning Disorders

LINK (<http://bulletin.unl.edu/courses/SPED/843>)

Prereqs:

SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/800 (<http://bulletin.unl.edu/courses/SPED/800>)

Learning, academic, behavioral, social-emotional and language characteristics of students who are classified as having disabilities for purposes of special education. Definitions, classification systems, assessment and verification criteria, and medications for students with learning and emotional disabilities.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
846

Foundations of Visual Impairment: Programs and Services for Individuals with Visual Impairments

Prereqs:

Admission to visually impaired program; hold or concurrently earn subject/field endorsement

Current educational programs and services for children with visual impairments, as well as children with multiple disabilities. History of educational services, developmental characteristics, psycho-social aspects, history of legislation, and grade I Braille.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
847

Introduction to Eye Anatomy of Students with Visual Impairments

LINK (<http://bulletin.unl.edu/courses/SPED/847>)

Prereqs:

SPED *846 or permission

Structure and function of the visual system, conditions that effect visual ability, and the functional and environmental implications of low vision. Strategies for enhancing visual ability in children with visual impairments and children who have additional disabilities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
849

Braille Codes and Material Adaptations for Students with Visual Impairments

LINK (<http://bulletin.unl.edu/courses/SPED/849>)

Prereqs:

SPED *846 and *847, or permission

Basic skills in literary Braille transcription and codes. Acquire competence in reading and writing Braille and using the Perkins braillewriter and slate/stylus.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
851

Intermediate Braille Codes and Instructional Material Adaptations for Students with Visual Impairments

LINK (<http://bulletin.unl.edu/courses/SPED/851>)

Prereqs:

SPED *846, *847, and *849

Advanced skills in Nemeth (mathematics code) and/or Literary code. Basic activities in braille formatting, foreign language, music and identification of braille technology devices and resources.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
852

Instructional Methods for Teachers of Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/852\)](http://bulletin.unl.edu/courses/SPED/852)

Prereqs:
SPED *846, *847, *849, and *851

Methods and materials for educating children who are totally blind or have low vision, including students with multiple impairments. Practical skills in selecting, designing, and/or modifying materials for content area subjects: mathematics, science, social studies, creative arts, foreign language, and other subjects.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
852A

Applied Technology Methods for Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/852A\)](http://bulletin.unl.edu/courses/SPED/852A)

Prereqs:
SPED *846 and *847, or equivalents

Theory and skill development in the selection and use of technology for students with visual impairments. Technology assessments, data collection, equipment feature, source of equipment, funding sources, writing technology instructional plans, and demonstration of using various equipment and technology.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

SPED
852B

Applied Instructional Methods to Teach Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/852B\)](http://bulletin.unl.edu/courses/SPED/852B)

Prereqs:
SPED *846, *847, *849, *851, and *852; or equivalents

Practice using appropriate instructional methods and materials for educating the blind and low vision child.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SPED
853

Orientation and Mobility Skills for Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/853\)](http://bulletin.unl.edu/courses/SPED/853)

Prereqs:
SPED *846, *847, *849, *851, and *852

Theory and applied practice in basic orientation and mobility techniques for use with students with visual impairments. Practical methods for work in concept development, orientation skills, travel skills and techniques, personal safety and independent travel. Needs of specific populations such as people with low vision and individuals with additional disabilities. Vision simulators and occluders. An introduction to the history and development of the profession.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
860

Issues in Early Childhood Special Education [LINK \(http://bulletin.unl.edu/courses/SPED/860\)](http://bulletin.unl.edu/courses/SPED/860)

Introduction to the history, philosophy, and research related to early intervention practices with children 0-5 years of age. Discussion of issues related to legal mandates, model programs, family involvement, integration, transitions, service delivery systems, teamwork and assessment for young children.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
861

Infants with Disabilities and Home Visiting [LINK \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)

Prereqs:
SPED 960 (<http://bulletin.unl.edu/courses/SPED/960>) and permission.

*SPED *861 requires a practicum in home visiting.*

Assessment and intervention strategies for developing appropriate early intervention programs for infants and toddlers with disabilities. Rationale and principles for conducting home-based, family-centered, and transdisciplinary services.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

862

Preschool Children with Disabilities in a Classroom

[LINK \(http://bulletin.unl.edu/courses/SPED/862\)](http://bulletin.unl.edu/courses/SPED/862)

Prereqs:
An assessment and behavior management course; and permission.

*SPED *862 requires an applied experience.*

Selection, design and implementation of developmentally appropriate, activity-based interventions for preschool-age children with disabilities. Ecological assessments. Instructional factors, such as classroom environments, activity planning, selection, use and modification of strategies, home-school communications, and consulting to staff in inclusive settings.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

873

Teaching the Content Areas to the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SPED/873\)](http://bulletin.unl.edu/courses/SPED/873)

SPED 873 (<http://bulletin.unl.edu/courses/SPED/873>) is for all students in the hearing impaired program.

Methods for teaching content areas (science, math, and social studies) to hearing impaired students from preschool through grade 12. Adapting curricula and materials from these areas for the hearing impaired students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

874

Language Arts and Literacy for the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SPED/874\)](http://bulletin.unl.edu/courses/SPED/874)

Assessment instruments, curricula and instructional methods for developing language and literacy in classrooms for hearing impaired children, preschool through grade 12. Methods for coordinating speech and/or language and/or auditory training program in the classroom with that in the speech and/or language therapy program.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

875

Itinerant Teaching Methods for Students who are Deaf or Hard of Hearing

[LINK \(http://bulletin.unl.edu/courses/SPED/875\)](http://bulletin.unl.edu/courses/SPED/875)

Methods for providing services for students with hearing loss, using itinerant and consultative models. Professional and parent in-service development, team-based problem solving, curriculum based pull-out services. Ecological assessment and management of deafness related technology in inclusive settings. Supervision of interpreters and paraprofessionals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

876

Language Development for Teachers

[LINK \(http://bulletin.unl.edu/courses/SPED/876\)](http://bulletin.unl.edu/courses/SPED/876)

Introduction to the foundations of normal speech and language development and potential difficulties in both early stages and in the classroom. Analysis of child language samples. Strategies for explaining language development

Credit Hours:	3
Course Format:	Lecture 3

Course Delivery: Classroom

SPED

893

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/893\)](http://bulletin.unl.edu/courses/SPED/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

SPED

897

Student Teaching: Exceptional Learners

[LINK \(http://bulletin.unl.edu/courses/SPED/897\)](http://bulletin.unl.edu/courses/SPED/897)

Prereqs: Permission

Laboratory and teaching experience in the area(s) of specialization.

- A. Mainstream (1–12 cr)
- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented (EDPS *897J)
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments
- Y. Inclusion
- Z. Multicultural Education

Credit Hours: 1–9

Max credits per degree: 15

Campus:

Course Delivery: Classroom

SPED

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/SPED/899\)](http://bulletin.unl.edu/courses/SPED/899)

Prereqs: Admission to masters degree program and permission of major adviser

Credit Hours: 1–10

Campus:

Course Delivery: Classroom

SPED

907

Seminar in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/907\)](http://bulletin.unl.edu/courses/SPED/907)

Prereqs: Permission

- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments

Credit Hours: 1–3

Max credits per degree: 12

Campus:

Course Delivery: Classroom

SPED

908

Resource Consultation Services

[LINK \(http://bulletin.unl.edu/courses/SPED/908\)](http://bulletin.unl.edu/courses/SPED/908)

Prereqs: SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), and one of the following: *831, *851, *861, *881; or permission

Roles and functions of school resource personnel in serving as educational

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED
932

Cognitive Strategy Instruction

[LINK \(http://bulletin.unl.edu/courses/SPED/932\)](http://bulletin.unl.edu/courses/SPED/932)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *803, and *831 or permission

How to implement cognitive strategy instruction with students learning difficulties. Practical model which allows students to successfully teach cognitive strategies. Metacognition, attribution training, and attention deficit disorders.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
942

Strategic Approaches for EBD

[LINK \(http://bulletin.unl.edu/courses/SPED/942\)](http://bulletin.unl.edu/courses/SPED/942)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *804, and *841; or permission

Strategic therapy techniques for assessment and treatment of EBD.
A. Special Topics in EBD (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED
960

Family and School Collaboration in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/960\)](http://bulletin.unl.edu/courses/SPED/960)

Prereqs:
Professional experience or completion of one practicum and/or field experience with young children (birth to age 5) or other individuals ages 5 to 21 years who have disabilities

This course is a prerequisite for: [SPED 861 \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)

Functions and interactions of both family and education systems. Impact of having a child with a disability on the normal and stressed family system. Promote family-professional partnerships in assessment and intervention for the child and/or student with an IFSP/IEP. Communication skills are reviewed and practiced for effective teaming among educators and for interviewing, consulting, collaborating and coaching with family members and other community team members.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
980

Assessment of Students with Severe, Sensory, and Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/980\)](http://bulletin.unl.edu/courses/SPED/980)

Prereqs:
SPED *881 and *882; and permission

This course is a prerequisite for: [SPED 987E \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Designed to meet the needs of educators who conduct assessment of students with low incidence disabilities in school settings. Strategies emphasize assessing capabilities and needs in relationship to valued life outcomes. Processes of instructional outcomes. Some assessment conducted in schools and community settings. Learning outcomes individualized to match special education certification program.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SPED
981

Functional Assessment and Behavioral Support for Students with Severe Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

Prereqs:
SPED 882 (<http://bulletin.unl.edu/courses/SPED/882>) and permission.
Majors in severe disabilities must parallel with SPED 896P
(<http://bulletin.unl.edu/courses/SPED/896P>) (1 cr).

SPED 981 (<http://bulletin.unl.edu/courses/SPED/981>) requires observation in schools and applied assignments.

Assessment and intervention strategies for developing positive behavior support for students with severe disabilities or developmental disabilities who have challenging behavior. Rationale and principles for using an educative approach, functional behavior analysis, and a variety of individualized ecological and curricular interventions. Process of assessment conducted in school settings.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

SPED
987E Seminar in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Prereqs:
SPED 980 (<http://bulletin.unl.edu/courses/SPED/980>) and **981**
(<http://bulletin.unl.edu/courses/SPED/981>)

Credit Hours: 1-12

Campus:

Course Delivery: Classroom

SPED
990 Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/990\)](http://bulletin.unl.edu/courses/SPED/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12

Campus:

Course Delivery: Classroom

SPED
995 Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/995\)](http://bulletin.unl.edu/courses/SPED/995)

Prereqs:
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours: 3

Max credits per degree: 18

Campus:

Course Delivery: Classroom

SPED
996A Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/SPED/996A\)](http://bulletin.unl.edu/courses/SPED/996A)

(1-12, max 12) Independent operational research under faculty supervision.

Campus:

Course Delivery: Classroom

SPED
996B Readings in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/996B\)](http://bulletin.unl.edu/courses/SPED/996B)

Prereqs:
Permission

(1-12, max 12) Readings on selected problems in special education.

Campus:

Course Delivery: Classroom

SPED
Resource Teacher Externship

[LINK \(http://bulletin.unl.edu/courses/SPED/997E\)](http://bulletin.unl.edu/courses/SPED/997E)

997E

Prereqs:
SPED *802, *803

Extensive practicum experience in school settings for individuals preparing to serve as school resource teachers and consultants.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

SPED 999 Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SPED/999\)](http://bulletin.unl.edu/courses/SPED/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Courses for SLPA (SLPA)

CYAF 891 Special Topics in Human Sciences

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMTD 891*

[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SLPA 450/850 Audiology for Educators of the Deaf or Hard of Hearing

[LINK \(http://bulletin.unl.edu/courses/SLPA/450\)](http://bulletin.unl.edu/courses/SLPA/450)

Anatomy and physiology of hearing; components of adequate evaluation for placement and educational planning; diagnosis using audiogram, functional and communication assessment; stimulation and utilization of residual hearing; and management of assistive and/or augmentative devices.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Web

SLPA 452/852 Normal Language Development During School Years

[LINK \(http://bulletin.unl.edu/courses/SLPA/452\)](http://bulletin.unl.edu/courses/SLPA/452)

Normal syntactic, semantic, and pragmatic language development in school-age children and youth. Complex syntax, semantic development, pragmatic development, using language to learn, language-literacy relations, and abstract language development.

Credit Hours:	3
Course Delivery:	Classroom

SLPA 454/854 Research Methodology in Speech-Language Pathology and Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/454\)](http://bulletin.unl.edu/courses/SLPA/454)

Prereqs:
Speech-language pathology and audiology major.

Introduction to research principles, methods, and design. Survey and critique of research in special education and communication disorders.

Credit Hours:	3
Course Delivery:	Classroom

SLPA **Language Disorders: Preschool Level**

[LINK \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

461/861

Prereqs:

Parallel [SLPA 461L \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L) / [861L \(http://bulletin.unl.edu/courses/SLPA/861L\)](http://bulletin.unl.edu/courses/SLPA/861L).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461), [SLPA 461L \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)

Characteristics of language impaired preschool children and the nature of their disorders. Introduction to principles of assessment and treatment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

SLPA **Language Disorders: Preschool Level Lab**

[LINK \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)

461L/861L

Prereqs:

Parallel with [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461) / [861 \(http://bulletin.unl.edu/courses/SLPA/861\)](http://bulletin.unl.edu/courses/SLPA/861).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

Practical application of language assessment and intervention in preschool children with language disorders.

Credit Hours:	1
Course Format:	Lab
Course Delivery:	Classroom

SLPA **Augmentative Communication**

[LINK \(http://bulletin.unl.edu/courses/SLPA/486\)](http://bulletin.unl.edu/courses/SLPA/486)

486/886

Speech pathology students must register for 3 cr only; special education students may register for 2-3

Introduction to the augmentative communication options for persons unable to speak or write because of physical, language, or cognitive disability.

Credit Hours:	2-3
Course Delivery:	Classroom

SLPA **Linguistic Needs of Bilingual and Culturally Different Students**

[LINK \(http://bulletin.unl.edu/courses/SLPA/488\)](http://bulletin.unl.edu/courses/SLPA/488)

488/888

Prereqs:

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [251 \(http://bulletin.unl.edu/courses/SLPA/251\)](http://bulletin.unl.edu/courses/SLPA/251) or permission.

Theoretical and applied information about situational factors which have an impact on spoken and written language; addresses how individual differences due to gender, handicapping conditions, socio-economic status, and cultural-ethnic background contribute to diversity in communication patterns and often act as a barrier to successful interactions in learning and social settings.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	9 [?]

SLPA **Readings and Research in Speech-Language Pathology and Audiology**

[LINK \(http://bulletin.unl.edu/courses/SLPA/496\)](http://bulletin.unl.edu/courses/SLPA/496)

496/896

Prereqs:

Permission.

Credit Hours:	1-3
Course Delivery:	Classroom

SLPA **Clinical Phonology: Assessment and Management**

[LINK \(http://bulletin.unl.edu/courses/SLPA/851\)](http://bulletin.unl.edu/courses/SLPA/851)

851

Prereqs:
SLPA 250 (<http://bulletin.unl.edu/courses/SLPA/250>) and 464 (<http://bulletin.unl.edu/courses/SLPA/464>) or permission

Theoretical foundations; applied clinical phonology.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
853 **Neurological Foundations of Speech and Language**

[LINK \(http://bulletin.unl.edu/courses/SLPA/853\)](http://bulletin.unl.edu/courses/SLPA/853)

Basic concepts of neurology, protection and blood supply of the Central Nervous System (CNS), anatomical structures of the CNS, neuromotor control of speech, cranial nerves for speech production and neuron motor disorders.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
862 **Language Disorders in Special Populations**

[LINK \(http://bulletin.unl.edu/courses/SLPA/862\)](http://bulletin.unl.edu/courses/SLPA/862)

Advanced information about language disorders, assessment, and intervention in various populations.

- A. Birth to Three: Communication Assessment and Intervention
- E. Preadolescents and Adolescents
- J. Severe Disabilities and Autism: Communication Assessment and Intervention
- K. Special Topics in Language Disorders

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

SLPA
863 **Language Disorders in Elementary School-aged Population**

[LINK \(http://bulletin.unl.edu/courses/SLPA/863\)](http://bulletin.unl.edu/courses/SLPA/863)

Advanced information about language disorders, assessment, and intervention in elementary school-aged children.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA
865 **Voice Disorders**

[LINK \(http://bulletin.unl.edu/courses/SLPA/865\)](http://bulletin.unl.edu/courses/SLPA/865)

Prereqs:
SLPA 455 (<http://bulletin.unl.edu/courses/SLPA/455>)

Etiology and symptoms of voice disorders, procedures used in clinical evaluation, and methods and procedures used in therapy.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA
884 **Speech and Language Development of the Hearing Impaired**

Crosslisted as *SPED 884*

[LINK \(http://bulletin.unl.edu/courses/SLPA/884\)](http://bulletin.unl.edu/courses/SLPA/884)

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA
885 **Fluency Disorders**

[LINK \(http://bulletin.unl.edu/courses/SLPA/885\)](http://bulletin.unl.edu/courses/SLPA/885)

Research related to the nature, diagnosis and clinical management of stuttering is considered. Therapy models are presented along with data bearing on the efficacy of particular approaches. Specific rehabilitation procedures.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

887

Language and Learning Disorders

[LINK \(http://bulletin.unl.edu/courses/SLPA/887\)](http://bulletin.unl.edu/courses/SLPA/887)

Prereqs:
For non-SLPA majors only

Review of prominent theories relating language to cognitive development and learning; student interaction on how varying styles and abnormal skills influence normal learning; how modifications can be made in materials content and classrooms to accommodate a child that has a language and learning disorder.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SLPA/890\)](http://bulletin.unl.edu/courses/SLPA/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

SLPA

892

Counseling and Behavior Issues in Speech Language Pathology

[LINK \(http://bulletin.unl.edu/courses/SLPA/892\)](http://bulletin.unl.edu/courses/SLPA/892)

Basic skills in counseling and behavior management as applied to the field of communication disorders. Practical, direct application to students' clinical work with individuals with a variety of communication disorders.

Credit Hours: 1

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

SLPA

893

Clinical Decision Making

[LINK \(http://bulletin.unl.edu/courses/SLPA/893\)](http://bulletin.unl.edu/courses/SLPA/893)

Critical Thinking skills necessary for decision-making during the assessment and treatment of individuals with communication disorders. Understanding and applying clinical processes related to the practice of speech-language pathology.

Credit Hours: 1

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

SLPA

897

Advanced Practicum

[LINK \(http://bulletin.unl.edu/courses/SLPA/897\)](http://bulletin.unl.edu/courses/SLPA/897)

Prereqs:
Completion of the undergraduate preprofessional program

Supervised practicum experiences provided with difficult speech, language and/or hearing problems in a variety of clinical, medical, geriatric, rehabilitational and public school settings.

- A. Audiology (1-3 cr per sem)
- B. Speech/Language Pathology (1-3 cr per sem)
- E. Externship (1-3 cr per sem)
- G. Public Schools (1-3 cr per sem)
- T. Externship in Audiology (1-6 cr per sem, max 12)

Credit Hours: 1-3

Max credits per degree: 6

Course Format: Field

Campus:

Course Delivery: Classroom

SLPA

898**Special Topics in Speech Pathology and Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/898\)](http://bulletin.unl.edu/courses/SLPA/898)**Prereqs:**
Permission

Special topics in speech pathology and audiology.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

SLPA

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/SLPA/899\)](http://bulletin.unl.edu/courses/SLPA/899)**Prereqs:**
Admission to masters degree program and permission of major adviser

Credit Hours:	1-10
Campus:	
Course Delivery:	Classroom

SLPA

902**Advanced Clinical Evaluation**[LINK \(http://bulletin.unl.edu/courses/SLPA/902\)](http://bulletin.unl.edu/courses/SLPA/902)

Instruction and practice in understanding, applying, and interpreting advanced clinical tests. Understanding the use of differential diagnostic tests used in assessment of peripheral and central lesions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

904**Basic Instrumentation**[LINK \(http://bulletin.unl.edu/courses/SLPA/904\)](http://bulletin.unl.edu/courses/SLPA/904)

Basic electrical theory and practical electronic information for the audiologist. Basic electrical and electronic information applicable to hearing, perception and acoustics. Basic electronics and electronic components, analog and digital circuits, transducers, calibration of audiometric instruments, amplifiers, attenuators and test equipment.

Credit Hours:	3
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

SLPA

906**Advanced Clinical Assessment II**[LINK \(http://bulletin.unl.edu/courses/SLPA/906\)](http://bulletin.unl.edu/courses/SLPA/906)

Issues of professionalism and the development of best-practice models in Audiology. Relationship-centered patient care and the impact of multicultural issues on the practice of Audiology. Use of clinical decision analysis and evidence-based practice. Application to the common clinical assessment tools discussed in the "Advanced Audiological Assessment I" course.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

908**Physiological Acoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/908\)](http://bulletin.unl.edu/courses/SLPA/908)

Pneumatic/mechanical/hydraulic/electrical interfaces involved in the transduction of acoustic energy through the auditory system. Investigation of external ear biophysics, the middle ear transfer function, cochlear hydrodynamics and hydro-mechanics, and auditory biopotentials.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

910**Auditory Signal Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/910\)](http://bulletin.unl.edu/courses/SLPA/910)

Principles of signal processing relevant to tests of hearing and to theories of functioning of the auditory system. Introduction of concepts in mathematics, vibration and acoustics. Time- and frequency-domain representations of signals, digital filtering, analysis of lumped-element circuits, linear and nonlinear signal analyses, modulation theory, and the effect of noise on measurements. Applications relevant to audiology including hearing aid performance and measurements, middle-ear transmission, cochlear mechanics, and auditory-nerve firing patterns. Application of these models to understanding physiological sources of conductive and sensorineural hearing loss.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

912

Psychoacoustics

[LINK \(http://bulletin.unl.edu/courses/SLPA/912\)](http://bulletin.unl.edu/courses/SLPA/912)

Psychoacoustic aspects of audition, including psychoacoustic instrumentation, masking level differences, psychoacoustical scaling, difference limen for intensity and frequency, loudness, critical bands and critical ratios, absolute threshold measurement, differential threshold measurement, and temporal summation. Brief investigations of certain psychoacoustic phenomena.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

916

Medical Aspects of Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/916\)](http://bulletin.unl.edu/courses/SLPA/916)

Effects of, and principles of, medical management of disorders of the cochlea, retrocochlear region, and central auditory mechanism. Anatomy and physiology of the inner ear and central auditory pathways, function and physiology of the vestibule and labyrinth, and histology and biochemistry of the inner ear and ascending auditory tracts.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

918

Auditory Assessment of Infants and Children

[LINK \(http://bulletin.unl.edu/courses/SLPA/918\)](http://bulletin.unl.edu/courses/SLPA/918)

Prereqs:
[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Development of the auditory system in infants and young children. Techniques used in differential diagnosis, and screening of auditory disorders in the pediatric population.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

920

Electrophysiological Assessment of Hearing

[LINK \(http://bulletin.unl.edu/courses/SLPA/920\)](http://bulletin.unl.edu/courses/SLPA/920)

Instrumentation and procedures for electrophysiologic evaluation of the auditory system. Procedures and special tests include Electrocochleography, Auditory Brainstem Response, Middle Latency Response, Late Cortical Response, and others.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

922

Pharmacology for Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/922\)](http://bulletin.unl.edu/courses/SLPA/922)

Introduction to pharmacological chemistry, drugs, and drug interactions. Ototoxic drugs and other drugs frequently seen in patients in audiology practice settings.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

SLPA

924**Sensory Technology and Rehabilitation for the Hearing Impaired** [LINK \(http://bulletin.unl.edu/courses/SLPA/924\)](http://bulletin.unl.edu/courses/SLPA/924)**Prereqs:**SLPA 271 (<http://bulletin.unl.edu/courses/SLPA/271>) or equivalent

Students will initiate and carry out directed laboratory assignments. Conventional analog hearing aids which includes: the design and operation of hearing aids, electroacoustic measurements and accompanying instrumentation, earmold and plumbung acoustics, evaluation and selection procedures (adults), orientation

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

SLPA

926**Sensory Technology and Rehabilitation for the Hearing Impaired II** [LINK \(http://bulletin.unl.edu/courses/SLPA/926\)](http://bulletin.unl.edu/courses/SLPA/926)**Prereqs:**SLPA 271 (<http://bulletin.unl.edu/courses/SLPA/271>) or equivalent

Students will be expected to engage in class presentations. Various assistive technologies, other than conventional analog hearing aids, utilized by persons who are deaf and hard of hearing. Technologies such as cochlear implants, tactile devices, radio frequency systems, digital hearing aids, and telephone, television and alerting devices. Information regarding pediatric amplification, counseling, and speechreading introduced.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

SLPA

928**Hearing Conservation and Industrial Audiology** [LINK \(http://bulletin.unl.edu/courses/SLPA/928\)](http://bulletin.unl.edu/courses/SLPA/928)

Theories and basic resources for participation in industrial, government, or community hearing conservation programs.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

930**Genetics of Hearing Loss** [LINK \(http://bulletin.unl.edu/courses/SLPA/930\)](http://bulletin.unl.edu/courses/SLPA/930)

The genetic basis for hearing loss.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

932**Vestibular Assessment I** [LINK \(http://bulletin.unl.edu/courses/SLPA/932\)](http://bulletin.unl.edu/courses/SLPA/932)

Students will initiate and carry out directed laboratory assignments.

The first of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Normal anatomy and physiology of the balance and ocular motor systems, contrasted with a wide range of pathological conditions. Electronystagmography (video-nystagmography two- and three-dimensional recordings) and assessment of the otolith organs.

Credit Hours:	4
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

SLPA

934**Vestibular Assessment II** [LINK \(http://bulletin.unl.edu/courses/SLPA/934\)](http://bulletin.unl.edu/courses/SLPA/934)

The second of a two-course series on the normal and pathophysiology of

Credit Hours:	3
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the human balance system and tools for its investigation and treatment. Advanced techniques for patient assessment using rotational chair and posturography protocols. Techniques for full assessment in an office situation without extensive equipment. Options for treatment and management of this group of patients. Vestibular and balance rehabilitation therapy program development.

Campus:
Course Delivery: Classroom

SLPA **936** **Implantable Prosthetics**

[LINK \(http://bulletin.unl.edu/courses/SLPA/936\)](http://bulletin.unl.edu/courses/SLPA/936)

Design, operation, candidacy, assessment, surgical procedures, fitting, verification, and rehabilitation procedures related to implantable prosthetic devices for individuals who are deaf and hard of hearing. Cochlear implants, bone anchored hearing aids, implantable middle ear devices, and auditory brainstem implants.

Credit Hours: 3
Campus:
Course Delivery: Classroom

SLPA **938** **Private Practice and/or Clinic Management**

[LINK \(http://bulletin.unl.edu/courses/SLPA/938\)](http://bulletin.unl.edu/courses/SLPA/938)

Principles and procedures for starting and surviving as an independent practitioner in audiology. Practice management strategies for use in any audiological setting.

Credit Hours: 2
Course Format: Lecture 2
Campus:
Course Delivery: Classroom

SLPA **940** **Aural Rehabilitation Across the Lifespan**

[LINK \(http://bulletin.unl.edu/courses/SLPA/940\)](http://bulletin.unl.edu/courses/SLPA/940)

Habilitation (for pre-lingual deaf and hard of hearing infants and toddlers) and rehabilitation efforts for individuals of all ages who are deaf or hard of hearing.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

SLPA **942** **Seminar in Audiology**

[LINK \(http://bulletin.unl.edu/courses/SLPA/942\)](http://bulletin.unl.edu/courses/SLPA/942)

Research and clinical procedures; findings and implications in audiology and hearing science.

Credit Hours: 2
Campus:
Course Delivery: Classroom

SLPA **956** **Language Study of Teachers of Deaf and Hard of Hearing (DHH)**

Crosslisted as *SPED 956*

[LINK \(http://bulletin.unl.edu/courses/SLPA/956\)](http://bulletin.unl.edu/courses/SLPA/956)

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

SLPA **964** **Speech Perception and Processing**

[LINK \(http://bulletin.unl.edu/courses/SLPA/964\)](http://bulletin.unl.edu/courses/SLPA/964)

Prereqs:
[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [456](http://bulletin.unl.edu/courses/SLPA/456)

Credit Hours: 3

<http://bulletin.unl.edu/courses/SLPA/456>) or permission

Human and computer perception and processing of speech. The speech code and its representation in the brain, laboratory techniques for perceptual experimentation, acoustic analysis of speech, and computer synthesis of speech.

Campus:

Course Delivery: Classroom

SLPA
966 Swallowing Disorders

[LINK \(http://bulletin.unl.edu/courses/SLPA/966\)](http://bulletin.unl.edu/courses/SLPA/966)

Swallowing disorders of children and adults. Procedures used in assessment, diagnosis, and intervention.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA
967 Cleft Palate

[LINK \(http://bulletin.unl.edu/courses/SLPA/967\)](http://bulletin.unl.edu/courses/SLPA/967)

Prereqs:
[SLPA 464 \(http://bulletin.unl.edu/courses/SLPA/464\)](http://bulletin.unl.edu/courses/SLPA/464) or equivalent

Communication, dental, medical, and associated problems related to cleft palate.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA
968 Motor Speech Disorders

[LINK \(http://bulletin.unl.edu/courses/SLPA/968\)](http://bulletin.unl.edu/courses/SLPA/968)

Prereqs:
[SLPA *853](#)

Motor speech disorders resulting from neuropathology of the central and peripheral nervous systems as found in cerebral palsy, Parkinsonism, and other developmental and acquired neuromotor problems of children and adults.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA
980A Seminar in Speech Physiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/980A\)](http://bulletin.unl.edu/courses/SLPA/980A)

Prereqs:
[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA
980B Seminar in Speech Acoustics

[LINK \(http://bulletin.unl.edu/courses/SLPA/980B\)](http://bulletin.unl.edu/courses/SLPA/980B)

Prereqs:
[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA
981 Seminar in Speech Pathology

[LINK \(http://bulletin.unl.edu/courses/SLPA/981\)](http://bulletin.unl.edu/courses/SLPA/981)

981**Prereqs:**

SLPA *851, *865, 967, and/or 968

Research procedures, findings and clinical implications in the following areas:

- B. Fluency Disorders (1–3 cr)
- D. Voice Disorders (1–3 cr)
- E. Motor Speech Disorder (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SLPA

983**Seminar in Language**[LINK \(http://bulletin.unl.edu/courses/SLPA/983\)](http://bulletin.unl.edu/courses/SLPA/983)**Prereqs:**

SLPA 251 (<http://bulletin.unl.edu/courses/SLPA/251>) or 852 (<http://bulletin.unl.edu/courses/SLPA/852>) or permission

Research procedures, findings and implications in language pathology and treatment in the areas of development, evaluation and habilitation.

- A. Child Language Development and Disorders (1–3 cr)
- B. Adolescent/Adult Language Development and Disorders (1–3 cr)
- E. Augmentative/Alternative Communication (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SLPA

984**Seminar in Augmentative Communication**[LINK \(http://bulletin.unl.edu/courses/SLPA/984\)](http://bulletin.unl.edu/courses/SLPA/984)**Prereqs:**SLPA 886 (<http://bulletin.unl.edu/courses/SLPA/886>)

Advanced seminar on research literature in the augmentative communication field.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

985**Traumatic Brain Injury**[LINK \(http://bulletin.unl.edu/courses/SLPA/985\)](http://bulletin.unl.edu/courses/SLPA/985)**Prereqs:**

SLPA *853

Assessment and treatment of child and adult cognitive and communication disorders resulting from traumatic brain injury.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

987**Aphasia in Adults**[LINK \(http://bulletin.unl.edu/courses/SLPA/987\)](http://bulletin.unl.edu/courses/SLPA/987)**Prereqs:**

SLPA *853

Adult language disorders resulting from stroke or other acquired central nervous system insult. Includes historical/theoretical development of understanding, cerebral dominance for language, classifications, rationale for diagnostic and therapeutic management, prognostic factors, agnosias and apraxia.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA

990**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/SLPA/990\)](http://bulletin.unl.edu/courses/SLPA/990)

SLPA

994

Doctoral Capstone Thesis

[LINK \(http://bulletin.unl.edu/courses/SLPA/994\)](http://bulletin.unl.edu/courses/SLPA/994)

Selection of the topic for this project should take place no later than the summer of the third year by consultation with the project adviser. Enrollment in [SLPA 994 \(http://bulletin.unl.edu/courses/SLPA/994\)](http://bulletin.unl.edu/courses/SLPA/994) is required during each semester that the project is underway. Capstone experience prepared in the form of a research project paper containing a significant treatment of some aspect of audiology.

Credit Hours:	3
Max credits per degree:	9
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

SLPA

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/SLPA/995\)](http://bulletin.unl.edu/courses/SLPA/995)

Prereqs:
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

SLPA

996

Research Problems Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/SLPA/996\)](http://bulletin.unl.edu/courses/SLPA/996)

Prereqs:
Permission

Credit Hours:	1-9
Campus:	
Course Delivery:	Classroom

SLPA

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SLPA/999\)](http://bulletin.unl.edu/courses/SLPA/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Courses for TEAC (TEAC)

BIOC

869

Chemistry for Secondary School Classrooms

Crosslisted as *BIOS 883, CHEM 869, TEAC 869*

[LINK \(http://bulletin.unl.edu/courses/BIOC/869\)](http://bulletin.unl.edu/courses/BIOC/869)

Credit in this course will not count towards a graduate degree in chemistry or biochemistry or biological sciences. Course taught via World Wide Web. Chemistry content for high school teachers organized according to the National Science Education Standards. Individual course coverage includes: content, integration with other sciences and mathematics, graphing calculators, probe-experiments, simulations, at-home experiments,

Credit Hours:	1
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

teaching materials, and industrial applications related to the title description.

- A. Structure and Properties of Matter: Water and Solutions (1 cr)
- B. Structure and Properties of Matter: Periodicity (1 cr)
- D. Structure and Properties of Matter: Bonding and Structure (1 cr)
- E. Structure and Properties of Matter: Carbon Chemistry and Polymers (1 cr)
- J. Structure and Properties of Matter: Gases and the Atmosphere (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1 cr)
- L. Structure and Properties of Matter: Condensed States and Materials Science (1 cr)
- M. Interactions of Matter and Energy (1 cr)
- N. Chemistry of Life Processes: DNA (1 cr)
- P. Chemistry of Life Processes: Energy and Metabolism (1 cr)
- Q. Chemical Reactions: Equations and their Consequences (1 cr)
- R. Chemical Reactions: Acids and Bases (1 cr)
- T. Chemical Reactions: Kinetics (1 cr)
- U. Chemical Reactions: Oxidation, Reduction and Electrochemistry (1 cr)
- V. Equilibrium: Unifying Theme (1 cr)
- W. Conservation of Energy and the Increase in Disorder: Thermodynamics (1 cr)
- Y. Inquiry and the Nature of Science: Analysis and Instrumentation (1 cr)
- Z. Structure of Atoms: Nuclear Chemistry (1 cr)

CHEM

874

Topics in Chemical Pedagogy

Crosslisted as *TEAC 874*

[LINK \(http://bulletin.unl.edu/courses/CHEM/874\)](http://bulletin.unl.edu/courses/CHEM/874)

A maximum combined total of 12 hours from TEAC *869 and/or *874 may be counted toward a masters degree. Credit in this course will not count towards a graduate degree in chemistry. Courses are Web-based. Topical chemistry content for high school teachers organized according to the National Science Education Standards.

- A. Green Chemistry (2–3 cr)
- D. Demonstrations for High School Chemistry (1–3 cr)
- E. Experiments for High School Chemistry (1–3 cr)
- J. Developing a Safety Culture (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1–3 cr)
- L. Addressing Misconceptions (1–3 cr)
- M. Mathematics Integration ([MATH 874M](http://bulletin.unl.edu/courses/MATH/874M)) (<http://bulletin.unl.edu/courses/MATH/874M>) (2–3 cr) May be counted towards the MAT and MScT degrees in mathematics and statistics, not the MA, MS, or PhD.
- N. Inquiry Strategies (1–3 cr)
- P. Chemistry in the Workplace (1–3 cr)
- Y. Graphing Calculator Activities (2–3 cr)

Credit Hours:	1–3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

CHEM

875

Chemical Pedagogy in the High School Laboratory

Crosslisted as *TEAC 875*

[LINK \(http://bulletin.unl.edu/courses/CHEM/875\)](http://bulletin.unl.edu/courses/CHEM/875)

Credit in this course will not count towards a graduate degree in chemistry. Laboratory-based courses addressing specific issues connected with teaching laboratory work in high school chemistry programs.

- A. Small-scale Experiments (1–3 cr)
- B. Technology Integration (3–6 cr)
- E. Inquiry Experiments (1–3 cr)
- K. At-home Experiments (1–3 cr)
- P. Probe Experiments (1–3 cr)
- T. Traditional Experiments (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

COMM

427/827

Instructional Communication

Crosslisted as *TEAC 429/829*

[LINK \(http://bulletin.unl.edu/courses/COMM/427\)](http://bulletin.unl.edu/courses/COMM/427)

Prereqs:
Junior/senior standing; College of Education and Human Sciences major;
[COMM 200](http://bulletin.unl.edu/courses/COMM/200) (<http://bulletin.unl.edu/courses/COMM/200>), [201](http://bulletin.unl.edu/courses/COMM/201) (<http://bulletin.unl.edu/courses/COMM/201>); or permission.

Credit Hours:	3
Course Delivery:	Classroom

Advanced introductory course in instructional communication, focusing on understanding variables associated with the communication process in instructional settings and managing instructional communication more effectively. Provides an experimental and a cognitive understanding of the role of communication in the instructional process.

CYAF

814

Evaluation in Career and Technical Education

Crosslisted as *TEAC 814*

[LINK \(http://bulletin.unl.edu/courses/CYAF/814\)](http://bulletin.unl.edu/courses/CYAF/814)

Two aspects of evaluation in the classroom: 1) selection and use of evaluation in assessing learning, and 2) consideration of conceptual and methodological issues in conducting evaluation to determine and account for the effectiveness of programs.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CYAF

891

Special Topics in Human Sciences

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMTD 891*

[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours: 1-3

Max credits per degree: 12

Campus:

Course Delivery: Classroom

EDAD

855

Teaching Learners to Learn

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

948

Instructional Leadership: Emerging Trends and Practices

Crosslisted as *TEAC 948*

[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

991

Field Studies in Education

Crosslisted as *NUTR 991, TEAC 991*

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDPS

935**Seminar in Qualitative Research**Crosslisted as *TEAC 935*[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)**Prereqs:****EDUC 900K** (<http://bulletin.unl.edu/courses/EDUC/900K>) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDPS

989**Psychology of Reading**Crosslisted as *TEAC 989*[LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)**Prereqs:****TEAC *811 or 841 or SPED 886**
(<http://bulletin.unl.edu/courses/SPED/886>)

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

ENGL

895A**Nebraska Writing Project Internship**Crosslisted as *TEAC 895A*[LINK \(http://bulletin.unl.edu/courses/ENGL/895A\)](http://bulletin.unl.edu/courses/ENGL/895A)**Prereqs:****Permission****Credit Hours:** 1-3**Course Format:** Lecture**Campus:****Course Delivery:** Classroom

ENGL

992**Nebraska Humanities Project**Crosslisted as *TEAC 992*[LINK \(http://bulletin.unl.edu/courses/ENGL/992\)](http://bulletin.unl.edu/courses/ENGL/992)**Credit Hours:** 1-24**Course Format:** Lecture**Campus:****Course Delivery:** Classroom

ENGL

992B**Place Conscious Teaching**Crosslisted as *TEAC 992B*[LINK \(http://bulletin.unl.edu/courses/ENGL/992B\)](http://bulletin.unl.edu/courses/ENGL/992B)

Theory and practice of teaching writing, literature, and rhetoric in connection with local place, region, and community.

Credit Hours: 1-6**Max credits per degree:** 6**Course Format:** Lecture**Campus:****Course Delivery:** Classroom

MUED

450/850**American Cultural Perspectives through Popular Music and Guitar**Crosslisted as *MUNM 450, TEAC 450/850*[LINK \(http://bulletin.unl.edu/courses/MUED/450\)](http://bulletin.unl.edu/courses/MUED/450)

Exploration of the historical, social and cultural context of late 19th and 20th century America through learning to play jazz and popular music on the guitar to provide an authentic, performance-based encounter in music.

Credit Hours: 3**Max credits per degree:** 3

Course Delivery:	Classroom
ACE Outcomes:	5 [?] , 7 [?]
Groups:	Music Education (MUED)

MUED **473/873** **Approaches to Middle School General Music**
 Crosslisted as *TEAC 873*

LINK (<http://bulletin.unl.edu/courses/MUED/473>)

Prereqs:
MUED 344 (<http://bulletin.unl.edu/courses/MUED/344>) or permission.

For prospective new and experienced general music/middle school teachers. Characteristics of middle school students, materials, methodology, guitar and recorder techniques, and curriculum development.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Education (MUED)

MUED **845** **Historical and Philosophical Foundations of American Music Education**
 Crosslisted as *TEAC 845*

LINK (<http://bulletin.unl.edu/courses/MUED/845>)

Prereqs:
Undergraduate degree in MUED.

MUED 845 (<http://bulletin.unl.edu/courses/MUED/845>) is required for a graduate degree in music education.

Historical overview of American music education practices from the Singing School tradition to today. Major philosophical influences in American music education, writings regarding aesthetic education, equity, ethical practice, gender, meaning, and profundity. The writings of Stublely, Reimer, Mark, Gary, Hylton, Richmond and others are considered.

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture
Course Delivery:	Classroom

SPED **406/806** **Reading and Writing Disabilities: Adolescents**
 Crosslisted as *TEAC 806*

LINK (<http://bulletin.unl.edu/courses/SPED/406>)

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/800 (<http://bulletin.unl.edu/courses/SPED/800>), SPED 412 (<http://bulletin.unl.edu/courses/SPED/412>)/812 (<http://bulletin.unl.edu/courses/SPED/812>), and (TEAC 441 (<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Parallel **SPED 406A (<http://bulletin.unl.edu/courses/SPED/406A>)/806A (<http://bulletin.unl.edu/courses/SPED/806A>).**

This course is a prerequisite for: [SPED 406 \(<http://bulletin.unl.edu/courses/SPED/406>\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(<http://bulletin.unl.edu/courses/SPED/406A>\)](http://bulletin.unl.edu/courses/SPED/406A)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED **406A/806A** **Reading Center Practicum II**
 Crosslisted as *TEAC 806A*

LINK (<http://bulletin.unl.edu/courses/SPED/406A>)

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/800 (<http://bulletin.unl.edu/courses/SPED/800>), 412 (<http://bulletin.unl.edu/courses/SPED/412>)/812 (<http://bulletin.unl.edu/courses/SPED/812>), and (TEAC 441 (<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Taken parallel with **SPED 406 (<http://bulletin.unl.edu/courses/SPED/406>)/806 (<http://bulletin.unl.edu/courses/SPED/806>).**

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

<http://bulletin.unl.edu/courses/SPED/806>.

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

[SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A/806A\)](http://bulletin.unl.edu/courses/SPED/406A/806A)
[806A \(http://bulletin.unl.edu/courses/SPED/806A\)](http://bulletin.unl.edu/courses/SPED/806A) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

SPED
886 **Assessment, Evaluation, and Instruction of**

Crosslisted as *TEAC 886*

[LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)

This course is a prerequisite for: [EDPS 989 \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)

*TEAC/SPED *886 includes case study and planning for special student populations.*

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

- A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.
- B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED
892 **Special Topics in Education**

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or parallel; [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
402/802 **Contemporary Children's Literature: Principles and Practices**

[LINK \(http://bulletin.unl.edu/courses/TEAC/402\)](http://bulletin.unl.edu/courses/TEAC/402)

Prereqs:
[TEAC 302 \(http://bulletin.unl.edu/courses/TEAC/302\)](http://bulletin.unl.edu/courses/TEAC/302) and successful completion of student teaching or permission.

Contemporary literature for children, all forms and genres; development of meaningful and creative learning activities for children; professional readings and research related to children's literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
408/808 **Improvement of Instruction in School Mathematics**

[LINK \(http://bulletin.unl.edu/courses/TEAC/408\)](http://bulletin.unl.edu/courses/TEAC/408)

Techniques, plans, and procedures for improving instruction in mathematics. Analysis of current instructional and supervisory practices. Evaluation of research and instructional materials. A. Primary: K–3 (3 cr) B. Elementary: 4–6 (3 cr) E. Secondary: 7–12 (3 cr) J. Special Topics (3 cr)

Credit Hours:	3
Max credits per degree:	12
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC
411/811 **Reading Processes and Practices**

[LINK \(http://bulletin.unl.edu/courses/TEAC/411\)](http://bulletin.unl.edu/courses/TEAC/411)

Overview of reading processes and programs with attention to strategies for comprehension and word identification, approaches, and materials. A. Teaching Reading (3 cr) B. Special Topics in Reading (1–6 cr)

Credit Hours: 3

Course Delivery: Classroom

TEAC

Studies in Teaching English as a Second Language

[LINK \(http://bulletin.unl.edu/courses/TEAC/413\)](http://bulletin.unl.edu/courses/TEAC/413)

413/813

Preparation for teaching K–12 learners whose language of nurture is not English. A. ESL: Acquisition (1–3 cr) B. ESL: Teaching and Curriculum (1–3 cr) D. ESL: Assessment (1–3 cr) E. Special Topics in Teaching ESL (1–6 cr)

Credit Hours: 1–15

Max credits per degree: 15

Course Delivery: Classroom

TEAC

Teaching English Language Learners (ELLs) in Content Areas

[LINK \(http://bulletin.unl.edu/courses/TEAC/413M\)](http://bulletin.unl.edu/courses/TEAC/413M)

413M/813M

TEAC 413M (<http://bulletin.unl.edu/courses/TEAC/413M>)/813M (<http://bulletin.unl.edu/courses/TEAC/813M>) is required for English Language Learner (ELL) certification.

Theory and pedagogy in the teaching of English Language Learners (ELLs) in course content areas at all levels of K–12 education. Identify and design linguistically and culturally responsive instruction for English learners in the disciplines (e.g. language arts, science, mathematics, social sciences).

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

TEAC

Teaching English Overseas

[LINK \(http://bulletin.unl.edu/courses/TEAC/413P\)](http://bulletin.unl.edu/courses/TEAC/413P)

413P/413X/813P

Methodologies for teaching English to speakers of other languages (TESOL) in international settings.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

TEAC

Inclusive Early Childhood Methods

[LINK \(http://bulletin.unl.edu/courses/TEAC/416\)](http://bulletin.unl.edu/courses/TEAC/416)

416/816

Prereqs:
Admission to the Inclusive Early Childhood Teacher Education Program; FACS 270 (<http://bulletin.unl.edu/courses/FACS/270>), 270L (<http://bulletin.unl.edu/courses/FACS/270L>), 374 (<http://bulletin.unl.edu/courses/FACS/374>), and 374L (<http://bulletin.unl.edu/courses/FACS/374L>).

The creation and practice of developmentally appropriate instruction in curricular areas for K to 3rd grades. Role of the teacher and/or facilitator in relationship to the primary curriculum and learning environment. A. Literacy Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D](http://bulletin.unl.edu/courses/TEAC/397D) (<http://bulletin.unl.edu/courses/TEAC/397D>). B. Social Studies and Science Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D](http://bulletin.unl.edu/courses/TEAC/397D) (<http://bulletin.unl.edu/courses/TEAC/397D>). D. Mathematics Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel Math 200.

Credit Hours: 3

Max credits per semester: 9

Course Format: Lecture

Course Delivery: Classroom

TEAC

Teaching Writing in the Elementary School

[LINK \(http://bulletin.unl.edu/courses/TEAC/418\)](http://bulletin.unl.edu/courses/TEAC/418)

418/818

Learning and teaching of writing with consideration given to developmental factors of children and adolescents.

Credit Hours: 3

Course Delivery: Classroom

TEAC

420/820

Teaching Foreign Language in the Elementary School[LINK \(http://bulletin.unl.edu/courses/TEAC/420\)](http://bulletin.unl.edu/courses/TEAC/420)

Theory, research and practice of most recent foreign language models and strategies.

Credit Hours:	3
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Course Delivery:	Classroom
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TEAC

425/825

Coordination in Occupational Training ProgramsCrosslisted as *EDAD 825*[LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours:	1-3
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Course Delivery:	Classroom
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TEAC

430/830

Introduction to Philosophy of Education[LINK \(http://bulletin.unl.edu/courses/TEAC/430\)](http://bulletin.unl.edu/courses/TEAC/430)

Open to advanced undergraduates and graduate students

Fundamental ideas and skills that students can use to begin to form personal philosophical perspectives on education that can be justified intellectually, practically, and ethically. Using case studies of realistic school situations and the theoretical work of a range of writers in education, students explore conceptions of teaching, learning, curriculum, and the relationship between school and society.

Credit Hours:	3
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Course Delivery:	Classroom
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TEAC

431/831

Studies in the Foundations of Education[LINK \(http://bulletin.unl.edu/courses/TEAC/431\)](http://bulletin.unl.edu/courses/TEAC/431)

Social and cultural analyses of curriculum, teaching, and education policy from disciplinary perspectives. A. The Anthropology of Education (3 cr) B. The History of Education (3 cr) E. The Sociology of Education (3 cr) J. Special Topics (3 cr)

Credit Hours:	3
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Max credits per degree:	12
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Course Delivery:	Classroom
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TEAC

432/832

Higher Education in America[LINK \(http://bulletin.unl.edu/courses/TEAC/432\)](http://bulletin.unl.edu/courses/TEAC/432)

Prereqs:
12 hrs education.

History and development of America's colleges and universities and recent trends and problems in higher education.

Credit Hours:	3
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Course Delivery:	Classroom
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TEAC

433/833

Comparative Education[LINK \(http://bulletin.unl.edu/courses/TEAC/433\)](http://bulletin.unl.edu/courses/TEAC/433)

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours:	3
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Course Format:	Lecture 3
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Course Delivery:	Classroom
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TEAC

Comparative Education Survey[LINK \(http://bulletin.unl.edu/courses/TEAC/433A\)](http://bulletin.unl.edu/courses/TEAC/433A)

433A/833A

Comparative Education investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'A' format is a survey course that considers examples from all over the world. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours:	3
Max credits per semester:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

Comparative Education: Special Topics/Travel Study

[LINK \(http://bulletin.unl.edu/courses/TEAC/433B\)](http://bulletin.unl.edu/courses/TEAC/433B)

433B/833B

Prereqs:
None

This course could be taken more than once for additional credits assuming the student uses it for travel-study to different places. For example, a student could not visit South Korea twice with the same professor teaching the same syllabus, but could visit South Korea once (as one 3-hour course) and South Africa (as another 3-hour course).

Course investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours:	3
Max credits per semester:	3
Max credits per degree:	9
Course Format:	Field 3
Course Delivery:	Classroom

TEAC

Ethics and Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/434\)](http://bulletin.unl.edu/courses/TEAC/434)

434/834

Open to advanced undergraduates and graduate students

Basic issues in ethics and education. Using theoretical material and case studies, students consider such ideas and issues as the nature of moral judgment, equality, justice, caring, and respect for persons, and discuss how educators might respond in ethically justifiable ways to difficult situations they may encounter.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Latin American Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/436\)](http://bulletin.unl.edu/courses/TEAC/436)

436/836

Prereqs:
12 hours education, social sciences, or Latin American Studies; or permission.

Survey of contemporary practices and problems in Latin American education, with special emphasis on the role of education in the national development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Linguistics for the Classroom School Teacher

[LINK \(http://bulletin.unl.edu/courses/TEAC/438\)](http://bulletin.unl.edu/courses/TEAC/438)

438/838

Prereqs:
Admission to the Teacher Education Program.

Analysis of various aspects of linguistic study including dialects, usage, modern grammar, semantics, lexicography, etc., and their application in the K-12 school English classroom. Investigation and clarification of language concepts and the development of teaching materials that can be used in the

Credit Hours:	3
Course Delivery:	Classroom

classroom.

TEAC **Literature for Adolescents**

[LINK \(http://bulletin.unl.edu/courses/TEAC/439\)](http://bulletin.unl.edu/courses/TEAC/439)

439/839

Prereqs:
Admission to a Teacher Education Program.

Wide range of young adult literature available for use in schools. Critical and rhetorical tools for responding to a variety of literary texts and techniques for eliciting a wider range of responses to literature; consideration for readers aged 11–16.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Content Area Reading, Grades 4–12**

[LINK \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441)

441/841

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Simultaneous teaching of academic content and functional teaching of reading in the content areas; assessment of comprehension, vocabulary/concept attainment; analyses of text; improvement of content area learning through reading/writing development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Learning and Teaching Principles and Practices**

[LINK \(http://bulletin.unl.edu/courses/TEAC/451\)](http://bulletin.unl.edu/courses/TEAC/451)

451/851

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306 \(http://bulletin.unl.edu/courses/TEAC/306\)](http://bulletin.unl.edu/courses/TEAC/306) or [406 \(http://bulletin.unl.edu/courses/TEAC/406\)](http://bulletin.unl.edu/courses/TEAC/406) / [806 \(http://bulletin.unl.edu/courses/TEAC/806\)](http://bulletin.unl.edu/courses/TEAC/806). Investigates topics/issues impacting the teaching of art, including the theory and practice of discipline-based art education. Planning and incorporation of innovative approaches embracing the diversity of students. K. Career and Technical Education Prereq: As listed above. Procedures for writing, selecting and organizing subject matter for instruction. L. Methods of Teaching Information Technology (3 cr) Prereq: As listed above and [TEAC 259 \(http://bulletin.unl.edu/courses/TEAC/259\)](http://bulletin.unl.edu/courses/TEAC/259); parallel [TEAC 397L \(http://bulletin.unl.edu/courses/TEAC/397L\)](http://bulletin.unl.edu/courses/TEAC/397L) or [894L \(http://bulletin.unl.edu/courses/TEAC/894L\)](http://bulletin.unl.edu/courses/TEAC/894L). Objectives, teaching materials, and methods of presentation emphasizing the organization and management of computer science instruction. [IS]N. Secondary Language Arts (3 or 4 cr) Prereq: As listed above, including [ENGL 357 \(http://bulletin.unl.edu/courses/ENGL/357\)](http://bulletin.unl.edu/courses/ENGL/357), [377 \(http://bulletin.unl.edu/courses/ENGL/377\)](http://bulletin.unl.edu/courses/ENGL/377); and [TEAC 438 \(http://bulletin.unl.edu/courses/TEAC/438\)](http://bulletin.unl.edu/courses/TEAC/438) / [838 \(http://bulletin.unl.edu/courses/TEAC/838\)](http://bulletin.unl.edu/courses/TEAC/838); and grade average of "B" (3.0) or better in subject-area. Theoretical issues in the teaching and learning of writing, language, and literature. *O. Marketing Education Prereq: As listed above and [TEAC 452K \(http://bulletin.unl.edu/courses/TEAC/452K\)](http://bulletin.unl.edu/courses/TEAC/452K). Objectives, teaching materials, selection, and organization of subject matter, and methods of instruction and evaluation in marketing. [IS]P. Secondary Mathematics Prereq: As listed above. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners. [IS]R. Secondary Modern Languages Prereq: As listed above. Investigates issues in second language learning and teaching from the perspective of proficiency: contextualized practice in reading, writing, speaking, listening, and culture. Methodological approaches, review of research, testing guidelines, accuracy, the affective and cognitive needs of students, and the incorporation of authentic materials/language. [IS]V. Secondary Science Prereq: As listed above and parallel with [TEAC 397](http://bulletin.unl.edu/courses/TEAC/397)

Credit Hours:	3–4
Course Delivery:	Classroom

(<http://bulletin.unl.edu/courses/TEAC/397>). Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners. [IS]W. Secondary Social Science Prereq: As listed above. Theoretical issues in teaching and learning in the individual and integrated social sciences.

TEAC

451K/851K

Learning and Teaching Principles and Practices: Career and Technical Education [LINK \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K)

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Procedures for writing, selecting and organizing subject matter for instruction.

Credit Hours: 3-4

Course Delivery: Classroom

TEAC

451P/851P

Learning and Teaching Principles and Practices: Secondary Mathematics [LINK \(http://bulletin.unl.edu/courses/TEAC/451P\)](http://bulletin.unl.edu/courses/TEAC/451P)

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners.

Credit Hours: 3-4

Course Delivery: Classroom

TEAC

451V/851V

Learning and Teaching Principles and Practices: [LINK \(http://bulletin.unl.edu/courses/TEAC/451V\)](http://bulletin.unl.edu/courses/TEAC/451V)

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better. Parallel with [TEAC 397V \(http://bulletin.unl.edu/courses/TEAC/397V\)](http://bulletin.unl.edu/courses/TEAC/397V).

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners.

Credit Hours: 3-4

Course Delivery: Classroom

TEAC

452/852

Curriculum Principles and Practices [LINK \(http://bulletin.unl.edu/courses/TEAC/452\)](http://bulletin.unl.edu/courses/TEAC/452)

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with 2.5 GPA or better.

Focus on practical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306 \(http://bulletin.unl.edu/courses/TEAC/306\)](http://bulletin.unl.edu/courses/TEAC/306) or [406 \(http://bulletin.unl.edu/courses/TEAC/406\)](http://bulletin.unl.edu/courses/TEAC/406)/[806 \(http://bulletin.unl.edu/courses/TEAC/806\)](http://bulletin.unl.edu/courses/TEAC/806). Theory and research into curriculum incorporating technology, interdisciplinary approaches, active learning, and course content designed to enhance art understanding by students of diversity. J. Business Education Prereq: As listed above and [TEAC 451K \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K) and parallel with [TEAC 397I \(http://bulletin.unl.edu/courses/TEAC/397I\)](http://bulletin.unl.edu/courses/TEAC/397I). Objectives, teaching materials, selection and organization of subject matter, and methods of

Credit Hours: 2-3

Course Delivery: Classroom

instruction and evaluation in business subjects. M. Industrial Education Prereq: As listed above and [TEAC 451K](http://bulletin.unl.edu/courses/TEAC/451K) (<http://bulletin.unl.edu/courses/TEAC/451K>) and parallel [TEAC 397M](http://bulletin.unl.edu/courses/TEAC/397M) (<http://bulletin.unl.edu/courses/TEAC/397M>). Objectives, curricula, methodology, evaluation, planning, classroom management and course organization. [IS]N. Secondary Language Arts Prereq: As listed above and parallel with [TEAC 397](http://bulletin.unl.edu/courses/TEAC/397) (<http://bulletin.unl.edu/courses/TEAC/397>). Planning, teaching, and evaluating language arts lessons for diverse learners. P. Secondary Mathematics Prereq: As listed above and [TEAC 451P](http://bulletin.unl.edu/courses/TEAC/451P) (<http://bulletin.unl.edu/courses/TEAC/451P>)/[851P](http://bulletin.unl.edu/courses/TEAC/851P) (<http://bulletin.unl.edu/courses/TEAC/851P>) with a grade of "C+" or better. Conceptualizing the 7–12 curriculum through multimedia and active, discovery learning. [IS]R. Secondary Modern Languages Prereq: As listed above. Second–language acquisition and learning theory and their relationship to curriculum planning and development. Practice in creative language–use activities designed to build second language reading, writing, speaking, listening, and culture skills. Development of teacher as observer, reflector, and recorder of individual student needs. [IS]V. Secondary Science Prereq: As listed above and [TEAC 451V](http://bulletin.unl.edu/courses/TEAC/451V) (<http://bulletin.unl.edu/courses/TEAC/451V>)/[851V](http://bulletin.unl.edu/courses/TEAC/851V) (<http://bulletin.unl.edu/courses/TEAC/851V>). Curricular materials, including the application of technology, as they relate to classroom instruction with diverse populations. [IS]W. Secondary Social Science Prereq: As listed above. Societal diversity and its impact on the 7–12 social science curriculum, regional and national curricular trends, and emerging theory and research in social studies education.

TEAC **The Middle Level Professional Methods**
453/853

[LINK \(http://bulletin.unl.edu/courses/TEAC/453\)](http://bulletin.unl.edu/courses/TEAC/453)

Prereqs:
Admission to the Teacher Education Program.

Development of competence in planning, teaching, classroom management and assessment. Covers the scope, content, and organization of curriculum and instructional materials. I. Art (2 cr) N. Language Arts (2 cr) P. Mathematics (2 cr) T. Reading (2 cr) V. Science (2 cr) W. Social Science (2 cr)

Credit Hours:	1–12
Max credits per semester:	12
Course Delivery:	Classroom

TEAC **Literature in Education**
454/854

[LINK \(http://bulletin.unl.edu/courses/TEAC/454\)](http://bulletin.unl.edu/courses/TEAC/454)

Comparative analyses of literature and the role of the reader as meaning maker in educational settings. A. Literary Response and Analysis (3 cr) B. Multiethnic Literature for Children and Adolescents (3 cr) E. Special Topics (3 cr)

Credit Hours:	3–9
Max credits per semester:	9
Course Format:	Lecture
Course Delivery:	Classroom

TEAC **Teaching with Technology**
480/880

[LINK \(http://bulletin.unl.edu/courses/TEAC/480\)](http://bulletin.unl.edu/courses/TEAC/480)

Survey and analysis of the application of technology to improve teaching. Research and related literature on learning, teaching and curriculum, and the critical application of technology and the development of teaching strategies. A. Survey of Instructional Technology (1–3 cr) B. Designing Instructional Technology K–12 (1–3 cr) E. Instructional Technology in Mathematics (1–3 cr) J. Instructional Technology in Language Arts (1–3 cr) K. Instructional Technology in Science (1–3 cr) L. Instructional Technology in Social Sciences (1–3 cr) M. Technology Supported Assessment and Evaluation (1–3 cr) N. Web Teaching (1–3 cr) P. Special Topics (1–3 cr)

Credit Hours:	1–3
Max credits per semester:	15
Course Delivery:	Classroom

TEAC **Instructional Applications of Computers–Practicum**
482/882

[LINK \(http://bulletin.unl.edu/courses/TEAC/482\)](http://bulletin.unl.edu/courses/TEAC/482)

Prereqs:
Permission.

A task-oriented practicum in instructional application of computer to provide an opportunity for repetition and/or demonstration of fundamental practice skills. Combines discussion and demonstration with supervised task-centered field experiences.

Credit Hours:	2-3
Course Delivery:	Classroom

TEAC **495/895** Independent Study

[LINK \(http://bulletin.unl.edu/courses/TEAC/495\)](http://bulletin.unl.edu/courses/TEAC/495)

Credit Hours:	1-6
Course Delivery:	Classroom

TEAC **496/896** Problems in Secondary Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/496\)](http://bulletin.unl.edu/courses/TEAC/496)

Prereqs:
Permission.

Opportunities for experienced teachers and administrators to develop plans, procedures, or experiments directed to the improvement of the curriculum or administration of the secondary school.

Credit Hours:	1-6
Course Delivery:	Classroom

TEAC **498/898** Problems in Elementary Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/498\)](http://bulletin.unl.edu/courses/TEAC/498)

Prereqs:
Permission.

Opportunities to develop plans, procedures, experiments, and models directed to the improvement of elementary school education on an independent study basis.

Credit Hours:	2-3
Course Delivery:	Classroom

TEAC **800** Inquiry into Teaching and Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800)

This course is a prerequisite for: [TEAC 888 \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Contemporary educational research from multiple theoretical perspectives.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC **801** Curriculum Inquiry

[LINK \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801)

The relationship between curriculum theory and/or research to educational practices.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC **803** Student Teaching Internship Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

Prereqs:
Parallel [TEAC 897 \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)

Credit Hours:	1-2
Campus:	

Analysis of school programs with attention to teacher certification, teacher/student rights/responsibilities, proper conduct of teachers, selected legal aspects of education, methods of communicating with parents and community members, and current issues.

A. Elementary (K-6) (1-2 cr) Parallel [TEAC 897A](#)

(<http://bulletin.unl.edu/courses/TEAC/897A>).

B. Elementary Art (1-2 cr) Parallel [TEAC 897B](#)

(<http://bulletin.unl.edu/courses/TEAC/897B>).

G. Elementary Foreign Language (1-2 cr) Parallel [TEAC 897G](#)

(<http://bulletin.unl.edu/courses/TEAC/897G>).

I. Secondary Art (1-2 cr) Parallel [TEAC 897I](#)

(<http://bulletin.unl.edu/courses/TEAC/897I>).

N. Secondary Language Arts (1-2 cr) Parallel [TEAC 897N](#)

(<http://bulletin.unl.edu/courses/TEAC/897N>).

P. Secondary Mathematics (1-2 cr) Parallel [TEAC 897P](#)

(<http://bulletin.unl.edu/courses/TEAC/897P>).

Q. Middle School (1-2 cr) Parallel [TEAC 897Q](#)

(<http://bulletin.unl.edu/courses/TEAC/897Q>).

R. Secondary Modern Language (1-2 cr) Parallel [TEAC 897R](#)

(<http://bulletin.unl.edu/courses/TEAC/897R>).

V. Secondary Science (1-2 cr) Parallel [TEAC 897V](#)

(<http://bulletin.unl.edu/courses/TEAC/897V>).

W. Secondary Social Science (1-2 cr) Parallel [TEAC 897W](#)

(<http://bulletin.unl.edu/courses/TEAC/897W>).

Y. Mainstreaming (1-2 cr) Parallel [TEAC 897Y](#)

(<http://bulletin.unl.edu/courses/TEAC/897Y>).

Z. Multicultural (1-2 cr) Parallel [TEAC 897Z](#)

(<http://bulletin.unl.edu/courses/TEAC/897Z>).

Course Delivery: Classroom

TEAC **805** Advanced Teaching Strategies

Crosslisted as *ALEC 805, NUTR 806*

[LINK \(http://bulletin.unl.edu/courses/TEAC/805\)](http://bulletin.unl.edu/courses/TEAC/805)

This course is a prerequisite for: [ALEC 400 \(http://bulletin.unl.edu/courses/ALEC/400\)](http://bulletin.unl.edu/courses/ALEC/400)

Contemporary and innovative teaching strategies, emphasizing learner-centered instruction, suitable to teaching in college and postsecondary institutions, outreach programs public schools, and other settings. Students participate in active learning as they apply learning theory in practice, prepare and demonstrate teaching methods, and plan for instruction in discipline areas of their choice.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC **812** Improvement of Instruction in Elementary School Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/812\)](http://bulletin.unl.edu/courses/TEAC/812)

Prereqs:

12 hrs education including [TEAC 315](#) (<http://bulletin.unl.edu/courses/TEAC/315>) or permission; teaching experience or student teaching

Techniques, plans, and procedures for improving instruction in elementary school science. Current practices, issues, and trends; evaluation of instructional materials.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC **813J** Intercultural Communication

[LINK \(http://bulletin.unl.edu/courses/TEAC/813J\)](http://bulletin.unl.edu/courses/TEAC/813J)

Introduction to intercultural communication and the theoretical and methodological tools needed to understand the tenets and implications of intercultural communication for application in personal and professional practices. Readings will deal with misunderstandings and the impact of cultural factors on the making of meaning, as well as discrimination and the impact of unequal power relations on communication, media impact in a globalized world, language, identity and communication, and intercultural competence.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
817

Emerging Reading and Language

[LINK \(http://bulletin.unl.edu/courses/TEAC/817\)](http://bulletin.unl.edu/courses/TEAC/817)

Prereqs:
Elementary endorsement

Research, theory and practice associated with literacy development in children from birth to age 8. Language and concept development, emerging reading and writing behaviors, appropriate materials and evaluation within a holistic view teaching and learning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
822

Principles and Practices in Social Studies Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/822\)](http://bulletin.unl.edu/courses/TEAC/822)

Current issues and trends in the curriculum and teaching of social studies.
A. Special Topics (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
828

Improvement of Instruction in Industrial Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/828\)](http://bulletin.unl.edu/courses/TEAC/828)

Special contemporary curricular and teaching aspects of industrial education. Research, curriculum content, teaching strategies, and the application to the instructional setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
833

Comparative Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/833\)](http://bulletin.unl.edu/courses/TEAC/833)

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
835

Ethnic Minorities and American Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/835\)](http://bulletin.unl.edu/courses/TEAC/835)

Chronological entry of European immigrant groups into an American society during the formative years of the development of the American public school system. Record of American social and educational history is replete with examples of inter- and intra-group human conflict as each immigrant group attempted to carve out its niche in a New World setting during a period of mass migration from Europe. Historical, sociological, and psychological barriers that became inherent during a dynamic period of nation building.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
840

Culture and Schooling

[LINK \(http://bulletin.unl.edu/courses/TEAC/840\)](http://bulletin.unl.edu/courses/TEAC/840)

Description and explanation of cultural values as they relate to education.
A. Gender (1-3 cr)
B. Gender and Science (1-3 cr)
D. Special Topics (1-6 cr)
E. Rural Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
842

Objectives and Methods of Science Teaching

[LINK \(http://bulletin.unl.edu/courses/TEAC/842\)](http://bulletin.unl.edu/courses/TEAC/842)

This course is a prerequisite for: [TEAC 924 \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Development of objectives, course offerings, and organization of subject matter and methods of instruction in science courses. Current national science education curriculum trends.

- A. Elementary
- B. Middle School
- D. Secondary and Community College
- E. Special Topics (1–6 cr)

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

TEAC
844

School Media Programs

[LINK \(http://bulletin.unl.edu/courses/TEAC/844\)](http://bulletin.unl.edu/courses/TEAC/844)

Role of the media specialist as a member of the instructional team.

- A. Administration (3 cr)
- B. Reference (3 cr)
- D. Cataloguing (3 cr)
- E. Selection (3 cr)
- J. Special Topics in School Media

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

TEAC
846

Studies in Middle Level Schooling

[LINK \(http://bulletin.unl.edu/courses/TEAC/846\)](http://bulletin.unl.edu/courses/TEAC/846)

Historical development, philosophy, and current literature of the middle school.

- A. Curriculum (1–3 cr, max 3)
- B. Leadership (1–3 cr, max 3)
- D. Teacher–Based Advisory (1–3 cr, max 3)
- E. Special Topics (1–3 cr, max 9)

Credit Hours:	1–9
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
847

Principles of Business Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/847\)](http://bulletin.unl.edu/courses/TEAC/847)

Principles, philosophy, historical development, and emerging role of business education in America. Current issues in business education, resource development, examination of learning theories, and needs assessment.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
848

Introduction to Curriculum Studies

[LINK \(http://bulletin.unl.edu/courses/TEAC/848\)](http://bulletin.unl.edu/courses/TEAC/848)

Historical development and philosophy of high school curricula. Review of research on schooling, curriculum trends, and school organizational structures.

- A. Elementary Schools
- B. Middle Schools
- D. Secondary Schools
- E. Special Topics in Curriculum (1–6 cr)

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

TEAC
849

Studies in Assessment and Leadership for Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/849\)](http://bulletin.unl.edu/courses/TEAC/849)

Preparation for assessing K–12 learners and leading K–12 Teacher Learning Communities.

Credit Hours:	6
Max credits per degree:	18

- A. Classroom Assessment (3 cr)
- B. Large-scale Assessment (3 cr)
- E. Leadership in Assessment (3 cr)
- J. Leading Classroom Assessment (3 cr)
- K. Special Topics in Assessment and Leadership for Learning (3 or 6 cr, max 6)

Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
857B

Nebraska Writing Project

Crosslisted as *ENGL 857B*

[LINK \(http://bulletin.unl.edu/courses/TEAC/857B\)](http://bulletin.unl.edu/courses/TEAC/857B)

Topics in writing instruction, explored via the National Writing Project Institute model, for K-12 and college teachers of writing in all curricular areas.

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
858

Utilization of Modern Technology

[LINK \(http://bulletin.unl.edu/courses/TEAC/858\)](http://bulletin.unl.edu/courses/TEAC/858)

Strategies of incorporating modern technology into the professional workplace; provides a thorough understanding of the operation and evaluation of integrating technology into the curriculum.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
859

Instructional Message Design

[LINK \(http://bulletin.unl.edu/courses/TEAC/859\)](http://bulletin.unl.edu/courses/TEAC/859)

Using selected principles from behavior science (perception, memory, attitudes, concepts), students analyze and design instructional messages. Systematic process for instructional development.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
860

Production and Utilization of Instructional Materials

[LINK \(http://bulletin.unl.edu/courses/TEAC/860\)](http://bulletin.unl.edu/courses/TEAC/860)

This course is meant to be taken after and in sequence with TEAC *859. Unique characteristics and contributions of selected instructional media and technologies to the teaching/learning and communication processes. Students produce materials for specific instructional messages.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
861

Education for a Pluralistic Society: Foundation and Issues

[LINK \(http://bulletin.unl.edu/courses/TEAC/861\)](http://bulletin.unl.edu/courses/TEAC/861)

Educational practices and policies for people from historically oppressed groups in the United States Foundation of multicultural education. Discussion of contemporary educational issues within the context of multicultural and cultural diversity. Critique of curricular materials and resources promoting a multicultural perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
881

Music in Early Childhood Education

Crosslisted as *MUED 881*

[LINK \(http://bulletin.unl.edu/courses/TEAC/881\)](http://bulletin.unl.edu/courses/TEAC/881)

Prereqs:
[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or [370 \(http://bulletin.unl.edu/courses/MUED/370\)](http://bulletin.unl.edu/courses/MUED/370) or permission

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Prepares the teacher of the young child (3–8 years) in the musical skills, methodology, and materials needed to carry out a successful program of music in the public and private schools, the nursery schools, and day-care centers.

TEAC

887

Effecting High School Improvement

[LINK \(http://bulletin.unl.edu/courses/TEAC/887\)](http://bulletin.unl.edu/courses/TEAC/887)

The relationships and interactions among the high school student, a teacher, and the curriculum to the issues of school district, higher education, philanthropy, state department of education, and federal involvement in high school improvement efforts. The imperative and challenges for improving high schooling for all students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

TEAC

888

Teacher as Scholarly Practitioner

[LINK \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Prereqs:

[TEAC 800 \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800) and [801 \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801), or permission

Seminar on the principles of practitioner inquiry and development of a proposal for an inquiry project.
A. Special Topics in Inquiry

Credit Hours:	1–3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

TEAC

889

Masters Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/889\)](http://bulletin.unl.edu/courses/TEAC/889)

Prereqs:

Permission

Working with a faculty mentor on either an individual or small-group basis, the student plans, conducts, and reports a summative work project.

Credit Hours:	1–3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC

890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/890\)](http://bulletin.unl.edu/courses/TEAC/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC

893

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/893\)](http://bulletin.unl.edu/courses/TEAC/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC

894

Professional Practicum Experiences

[LINK \(http://bulletin.unl.edu/courses/TEAC/894\)](http://bulletin.unl.edu/courses/TEAC/894)

Prereqs:

Admission to Teacher Education Program

TEAC *894 does not count toward the MA or MEd degree. P/N only. Guided observations and/or clinical experiences in schools and/or agencies offering programs for children/youth.
A. Elementary (K–6) (1–10 cr)

Credit Hours:	1–10
Max credits per degree:	10
Course Format:	Field
Campus:	

- B. Elementary Art (1–10 cr)
- E. English as a Second Language (1–10 cr)
- G. Elementary Foreign Language (1–10 cr)
- I. Secondary Art (1–10 cr)
- J. Business Education (1–10 cr)
- L. Information Technology (1–10 cr, max 10)
- M. Industrial Education (1–10 cr)
- N. Secondary Language Arts (1–10 cr)
- O. Marketing Education (1–10 cr)
- P. Secondary Mathematics (1–10 cr)
- Q. Middle School (1–10 cr)
- R. Secondary Modern Language (1–10 cr)
- T. Reading (1–10 cr)
- V. Secondary Science (1–10 cr)
- W. Secondary Social Science (1–10 cr)
- Y. Mainstreaming (1–10 cr)
- Z. Multicultural (1–10 cr)

Course Delivery: Classroom

TEAC
897

Student Teaching Internship

[LINK \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)

Prereqs:
Admission by application only

Credit Hours: 1–10

Course Delivery: Classroom

This course is a prerequisite for: [TEAC 803 \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

(See “Admission to Student Teaching” in the UNL Undergraduate Bulletin.)
This course will not count towards the MA or MEd degree. P/N only.
Supervised teaching experience in schools.

- A. Elementary (K–6)
- B. Elementary Art
- E. English as a Second Language
- D. Elementary Physical Education
- G. Elementary Foreign Language
- I. Secondary Art
- J. Business Education
- K. Health
- M. Industrial Education
- N. Secondary Language Arts
- P. Secondary Mathematics
- Q. Middle School
- R. Secondary Modern Language
- U. Secondary Physical Education
- V. Secondary Science
- W. Secondary Social Science
- Y. Mainstreaming
- Z. Multicultural

TEAC
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/TEAC/899\)](http://bulletin.unl.edu/courses/TEAC/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6–10

Campus:

Course Delivery: Classroom

TEAC
901

Supervision and Administration in Vocational Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/901\)](http://bulletin.unl.edu/courses/TEAC/901)

For course description, see [ALEC 901 \(http://bulletin.unl.edu/courses/ALEC/901\)](http://bulletin.unl.edu/courses/ALEC/901).

Credit Hours: 1–3

Course Format: Lecture

Campus:

Course Delivery: Classroom

TEAC
902

Colloquium in Educational Policy and Practice

[LINK \(http://bulletin.unl.edu/courses/TEAC/902\)](http://bulletin.unl.edu/courses/TEAC/902)

Educational policy and practice and their interconnection.
A. Special Topics in Educational Policy and Practice (1– 3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

TEAC
903

Current Trends in the Education of Young Children

[LINK \(http://bulletin.unl.edu/courses/TEAC/903\)](http://bulletin.unl.edu/courses/TEAC/903)

Participation in special problems of teachers in service. Guidance, evaluations, research.

Credit Hours:	2–3
Campus:	
Course Delivery:	Classroom

TEAC
905

Practicum in Postsecondary Teaching

Crosslisted as *ALEC 905*

[LINK \(http://bulletin.unl.edu/courses/TEAC/905\)](http://bulletin.unl.edu/courses/TEAC/905)

Prereqs:
ALEC *805 or permission

Work with a faculty mentor in a discipline of choice and an instructional supervisor to prepare instruction and teach students in a postsecondary setting. Practicum students are assisted in arranging for the practicum and are provided consultation and feedback during the practicum. Lesson planning and reflective papers are part of the practicum experience.

Credit Hours:	1–3
Course Format:	Lab
Campus:	
Course Delivery:	Classroom

TEAC
907

Seminar in Elementary School Mathematics

[LINK \(http://bulletin.unl.edu/courses/TEAC/907\)](http://bulletin.unl.edu/courses/TEAC/907)

Prereqs:
TEAC 808 (<http://bulletin.unl.edu/courses/TEAC/808>) or equivalent

Theories, literature, and research procedures relative to elementary mathematics education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
908

Seminar in Teacher Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/908\)](http://bulletin.unl.edu/courses/TEAC/908)

Overview of literature and scholarship in teacher education.
A. Supervision of Pre–service Teachers (1–3 cr)
B. Teacher Development (3 cr)
D. Initial Teacher Preparation (1–3 cr)
E. Special Topics in Teacher Education (1–3 cr)

Credit Hours:	1–12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
911

Seminar in Elementary School Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/911\)](http://bulletin.unl.edu/courses/TEAC/911)

Prereqs:
12 hrs laboratory science including courses in both physical and biological fields; TEAC 403 (<http://bulletin.unl.edu/courses/TEAC/403>) or 804 (<http://bulletin.unl.edu/courses/TEAC/804>) or equivalent; teaching experience

Literature which deals with research and experimentation in science for the elementary school. Aspects of the teaching and supervision of elementary

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

school science that require investigation and research.

TEAC
920

Seminar in Curriculum and Teaching of Career and Technical Education [LINK \(http://bulletin.unl.edu/courses/TEAC/920\)](http://bulletin.unl.edu/courses/TEAC/920)

Current research and theory within the curriculum and teaching of career and technical education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
921

Seminar in Literacy Studies [LINK \(http://bulletin.unl.edu/courses/TEAC/921\)](http://bulletin.unl.edu/courses/TEAC/921)

Research in literacy and schooling.
A. Curriculum and Teaching (3 cr)
B. Special Topics (1-3 cr)
D. Language, Culture, and Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
922

Seminar in the Learning and Teaching of Foreign Languages [LINK \(http://bulletin.unl.edu/courses/TEAC/922\)](http://bulletin.unl.edu/courses/TEAC/922)

Prereqs:
Undergraduate teaching major in a foreign language and teaching experience in a foreign language

Critical review and evaluation of current literature, research and theory.
A. Reading in the Foreign Language Classroom (1-3 cr, max 3)
B. Writing in the Foreign Language Classroom (1-3 cr, max 3)
D. Listening in the Foreign Language Classroom (1-3 cr, max 3)
E. Speaking in the Foreign Language Classroom (1-3 cr, max 3)
J. Planning in the Foreign Language Classroom (1-3 cr, max 3)
K. Technology-Enhanced Language Instruction (1-3 cr, max 3)

Credit Hours:	1-21
Max credits per degree:	21
Campus:	
Course Delivery:	Classroom

TEAC
923

Seminar in the Curriculum and Teaching of Secondary School Mathematics [LINK \(http://bulletin.unl.edu/courses/TEAC/923\)](http://bulletin.unl.edu/courses/TEAC/923)

Prereqs:
Undergraduate teaching major and teaching experience in mathematics

Critical evaluation of current literature, yearbooks, research, and experiments in the curriculum and teaching of mathematics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
924

Seminar in the Curriculum and Teaching of Science [LINK \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Prereqs:
Undergraduate teaching major and teaching experience in science, and TEAC 842 (<http://bulletin.unl.edu/courses/TEAC/842>) and EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>)

Exploration of current literature, yearbooks, research, and experiments in the curriculum and teaching of science.
A. Elementary
B. Middle School
D. Secondary
E. Inclusive Science Teaching
J. Special Topics (1-6 cr)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC
925

Seminar in the Curriculum and Teaching of Social Sciences

[LINK \(http://bulletin.unl.edu/courses/TEAC/925\)](http://bulletin.unl.edu/courses/TEAC/925)

Current research and literature in social sciences education.

- A. Elementary (1-3 cr)
- B. Middle School (1-3 cr)
- D. Secondary (1-3 cr)
- E. Great Plains Studies (1-3 cr)
- G. Special Topics in Social Sciences (1-3 cr)

Credit Hours:	3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
929

Seminar in Individualized Instruction for Gifted, Talented, and Creative Students

[LINK \(http://bulletin.unl.edu/courses/TEAC/929\)](http://bulletin.unl.edu/courses/TEAC/929)

Nature of curricular and instructional programs and practices for gifted, talented, and creative students in elementary and secondary schools. Range of learner outcomes, identification of instructional principles, personalizing instruction for this group of learners.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
930

Sociological/Anthropological Research Methods in Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Crosslisted as *EDPS 930*, *CYAF 930*, *NUTR 930*

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1-3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1-3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1-3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1-3 cr, max 3)
- J. Hermeneutic Traditions in Education (1-3 cr, max 3)
- K. Quantitative Research Traditions in Education (1-3 cr, max 3)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
931

Research in the History of Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/931\)](http://bulletin.unl.edu/courses/TEAC/931)

Historical research methods in education culminating in the research and writing of a historical article as publication report.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
932

Contract Studies in International Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/932\)](http://bulletin.unl.edu/courses/TEAC/932)

Prereqs:
Permission

Student proposed course of studies in international education: may include field experiences, individual/group research, participation in mini-seminars, etc.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

TEAC
936

Seminar in College Teaching

[LINK \(http://bulletin.unl.edu/courses/TEAC/936\)](http://bulletin.unl.edu/courses/TEAC/936)

Credit Hours: 1-3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

TEAC
937 **Philosophy of Science and Educational Research**

[LINK \(http://bulletin.unl.edu/courses/TEAC/937\)](http://bulletin.unl.edu/courses/TEAC/937)

Major themes in philosophy of science and relates these to conceptions of research on human beings and social institutions, particularly as this is applied to schooling. Students consider such fundamental issues as whether educational research is a science, the form and purpose of educational research, and what research might imply for practice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
944 **Seminar in Curriculum Studies**

[LINK \(http://bulletin.unl.edu/courses/TEAC/944\)](http://bulletin.unl.edu/courses/TEAC/944)

Critical examination of issues in curriculum development with an analysis of research and literature on the subject.

- A. Curriculum as Aesthetic Text (1-3 cr)
- B. Special Topics in Curriculum (1-3 cr)
- D. Curriculum Evaluation (1-3 cr)
- E. Curriculum as Spatial Text (1-3 cr)

Credit Hours: 1-3

Max credits per degree: 15

Campus:

Course Delivery: Classroom

TEAC
946 **Instructional Improvement and Decision Making**

[LINK \(http://bulletin.unl.edu/courses/TEAC/946\)](http://bulletin.unl.edu/courses/TEAC/946)

Study and application of teaching models and techniques based on research, theory, and exemplary practice.

- A. Instructional Assessment
- B. Special Topics in Instruction

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

TEAC
949 **Seminar in Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/949\)](http://bulletin.unl.edu/courses/TEAC/949)

Critical analysis of literature and research on teaching, learning, and schooling.

- A. Special Topics in Education (1-3 cr)

Credit Hours: 1-3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

TEAC
950 **Contextual Research in English/Language Arts**

[LINK \(http://bulletin.unl.edu/courses/TEAC/950\)](http://bulletin.unl.edu/courses/TEAC/950)

Uses of qualitative research in English language arts; interpreting, planning, conducting, and reporting contextual research results.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
951 **Seminar in Reading Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/951\)](http://bulletin.unl.edu/courses/TEAC/951)

Scholarship in reading education, including the nature, results and implications of past and present research and non-research and

Credit Hours: 3-9

Max credits per degree: 9

contributions of historically significant scholars in the field of reading.
A. Research in Reading Education (3 cr)
B. Special Topics (1–6 cr, 6 max)

Campus:
Course Delivery: Classroom

TEAC
952 **Language and Learning**

[LINK \(http://bulletin.unl.edu/courses/TEAC/952\)](http://bulletin.unl.edu/courses/TEAC/952)

Role that language plays in empowering and constraining children as they attempt to make sense of their world. Consideration of application of language scholarship for general instruction.

Credit Hours: 3
Campus:
Course Delivery: Classroom

TEAC
953 **Seminar on Writing in the Curriculum**

[LINK \(http://bulletin.unl.edu/courses/TEAC/953\)](http://bulletin.unl.edu/courses/TEAC/953)

Writing development, writing instruction, and the use of writing in the content areas. Consideration of application of scholarship in writing for general learning and instruction.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom

TEAC
957B **Nebraska Writing Project**

Crosslisted as *ENGL 957B*

[LINK \(http://bulletin.unl.edu/courses/TEAC/957B\)](http://bulletin.unl.edu/courses/TEAC/957B)

Summer institute for K–12 and college teachers of writing in all curricular areas, taught on the National Writing Project model.

Credit Hours: 6
Course Format: Lecture 6
Campus:
Course Delivery: Classroom

TEAC
959 **Portfolio in Instructional Technology Competencies**

[LINK \(http://bulletin.unl.edu/courses/TEAC/959\)](http://bulletin.unl.edu/courses/TEAC/959)

Prereqs:
Permission

No more than six credits of [TEAC 959](http://bulletin.unl.edu/courses/TEAC/959) (<http://bulletin.unl.edu/courses/TEAC/959>) may be counted towards a masters degree. Portfolio components represent a significant contribution to the solution of an instructional problem and reflect broadly the major competencies of instructional technology: problem definition, learner analysis, media selection and message design, production, and evaluation.

Credit Hours: 1–12
Campus:
Course Delivery: Classroom

TEAC
960 **Topical Seminar in Instructional Technology**

[LINK \(http://bulletin.unl.edu/courses/TEAC/960\)](http://bulletin.unl.edu/courses/TEAC/960)

Prereqs:
Permission

Critical analysis of research in a delimited problem area within instructional technology (e.g., ITV, CAI, videodisc, simulations, programmed instruction). Empirically testable research questions related to the topic.

Credit Hours: 1–3
Campus:
Course Delivery: Classroom

TEAC
961 **Current Approaches to Elementary Music Education**

Crosslisted as *MUED 961*

[LINK \(http://bulletin.unl.edu/courses/TEAC/961\)](http://bulletin.unl.edu/courses/TEAC/961)

Prereqs:
Teaching experience

Credit Hours: 3

Implementation of current programs, materials, and techniques for the improvement of music instruction in the elementary school.

Campus:
Course Delivery: Classroom

TEAC
990 Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/990\)](http://bulletin.unl.edu/courses/TEAC/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12
Max credits per degree: 12
Campus:
Course Delivery: Classroom

TEAC
993 Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/993\)](http://bulletin.unl.edu/courses/TEAC/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12
Max credits per degree: 12
Campus:
Course Delivery: Classroom

TEAC
995 Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/995\)](http://bulletin.unl.edu/courses/TEAC/995)

Prereqs:
Permission

Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours: 3
Max credits per degree: 18
Campus:
Course Delivery: Classroom

TEAC
996 Individual Research Projects

[LINK \(http://bulletin.unl.edu/courses/TEAC/996\)](http://bulletin.unl.edu/courses/TEAC/996)

Prereqs:
Permission

Individual research under faculty supervision.

Credit Hours: 1-10
Max credits per degree: 10
Campus:
Course Delivery: Classroom

TEAC
997 Minor Research

[LINK \(http://bulletin.unl.edu/courses/TEAC/997\)](http://bulletin.unl.edu/courses/TEAC/997)

Individual research on approved topics in Elementary Education.

Credit Hours: 1-6
Campus:
Course Delivery: Classroom

TEAC
999 Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/TEAC/999\)](http://bulletin.unl.edu/courses/TEAC/999)

Prereqs:

Credit Hours: 1-24

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Description

The College of Education and Human Sciences (CEHS) offers graduate degree programs through its seven CEHS departments: Child, Youth and Family Studies; Educational Administration; Educational Psychology; Nutrition and Health Sciences; Special Education and Communication Disorders; Teaching, Learning and Teacher Education; and Textiles, Clothing and Design. In addition to graduate degree programs, CEHS also offers graduate, non-degree programs leading to certification in areas such as teaching, curriculum leadership and school administration.

Workshop Seminars in Education

The purpose of the Workshop Seminars (890, 893, 990 or 993) is to give students in the departments of education an opportunity to work singly or in groups on practical educational problems which are of special focused interest but which are not included in other professional education courses. Workshops are offered on a variety of topics by College faculty and selected educational consultants. As a rule, the individual or group is expected to produce some kind of a product as a part of the workshop experience. The amount of credit in a Workshop Seminar at either the 800 or 900 level may not exceed 12 semester hours in meeting requirements for the masters degree. Upon approval, a maximum of 12 additional semester hours may be included in the program for the doctoral degree.

CEHS offers three masters degrees in nine majors and the education specialist degree in three majors. The MEd is offered only in Educational Administration; Special Education and Communication Disorders; and Teaching, Learning, and Teacher Education. The following requirements for the MEd are College requirements. Departmental requirements may exceed these. In work for the master of education degree, at least 6 semester hours selected from College of Education and Human Sciences courses outside the major must be included and supporting work may be substituted for the minor(s). For information on masters and specialist degree programs, consult the relevant department's listing in this bulletin.

CEHS offers two doctoral degrees, both the EdD and the PhD, under three majors: educational studies, human sciences, and psychological studies in education. In addition, CEHS participates in two additional doctoral majors.

The Educational Studies major includes six specializations. Instructional Technology; Internet-based Education; and Teaching, Curriculum and Learning are hosted by the Department of Teaching, Learning and Teacher Education. Special Education is sponsored by the Department of Special Education and Communication Disorders. The Department of Educational Administration hosts Educational Leadership and Higher Education and co-hosts, with Architecture, Architecture Education.

The Human Sciences major includes five specializations. Communication Disorders is housed in the Department of Special Education and Communication Disorders; Child, Youth and Family Studies is sponsored by the Department of Child, Youth and Family Studies; Nutrition and Health Sciences is hosted by the Department of Nutrition and Health Sciences; Textiles, Clothing and Design is based in the Department of Textiles, Clothing and Design; and Leadership Studies is housed in the Department of Agricultural Leadership, Education and Communication.

The Psychological Studies in Education major includes four specializations, all hosted by the Department of Educational Psychology: Cognition, Learning and Development; Counseling Psychology; Qualitative and Quantitative Methodologies in Education; and School Psychology.

In addition, the Department of Educational Administration--in cooperation with UNO's Department of Educational Administration--offers a major in Educational Administration, and the Department of Nutrition and Health Sciences participates in the Interdepartmental Nutrition major.

Specific program and application information is available under each department's listing in this bulletin. Up-to-date information is also available on-line at cehs.unl.edu. Inquiries may be directed to cehsgrad@unl.edu or to (402) 472-5333.

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Educational Administration

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Interim Department Chair: Brent D. Cejda, Ph.D.

Graduate Committee Chair: Jody Isernhagen, Ph.D.

The Department of Educational Administration offers programs leading to masters (MEd, MA) and doctoral degrees (PhD, EdD) as well as certificates of specialization.

Masters degree programs

The Masters Degree program meets the academic requirements for either a Master of Arts (MA) or a Master of Education (MEd) degree with a major in Educational Administration. The MA degree requires the completion of a thesis. Students enrolled in the Masters Degree program are interested in both K-12 and higher education administration.

The majority of students interested in K-12 education intend to satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, at either the standard or professional level, with administrative endorsements that will qualify them for employment as administrators in K-12 school systems. Students interested in higher education administration have the opportunity to pursue specializations in student affairs or human resource development or complete a general higher education program.

Doctoral degree programs

There are two approved doctoral areas of emphasis: 1) Educational Leadership and Higher Education (ELHE), which leads to either the PhD or EdD degree in education studies, and 2) a jointly operated program with UNO (EDJT) which leads to the EdD in educational administration. All students pursuing a doctorate degree are required to complete a dissertation and students pursuing a PhD are required to complete an on-campus residency.

Certificates of Specialization

In addition to masters and doctoral degrees, the department offers four certificates of specialization.

Individuals who already have a Masters Degree in education can pursue a certificate endorsement program that will satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, a requirement for employment as an administrator in a K–12 school system.

The Certificate of Specialization in Educational Administration is designed to meet the requirements of a Nebraska Professional and Administrative Supervisory Certificate with an endorsement of superintendent.

The School Improvement Certificate Program that focuses on the K–12 school improvement process. The School Improvement Program benefits you—the teacher, by preparing you as a school leader while gaining the specialist credential, allowing you to increase your skills and build career opportunities.

The Community College Leadership Certificate is designed for those already employed in community colleges who aspire to administrative appointments as well as those who are in leadership positions and need or desire additional preparation.

Course Delivery

The Department of Educational Administration has been a campus leader in reaching out to students who need or wish to study from off campus and offers most of the course work for the MEd and EdD online. The primary emphasis in all courses is on the principles, processes, and practical skills necessary for the leadership, organization, and administration of educational institutions.

Further information about graduate degree programs and about certification programs may be located on the department's Website, located at cehs.unl.edu/edad.

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Educational Psychology

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology).

(<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Department Chair: R. J. De Ayala, Ph.D.

Graduate Committee Chair: Edward Daly, Ph.D.

Website: edpsyc.unl.edu

The Department of Educational Psychology consists of four program areas: counseling psychology; cognition, learning and development (CLD); quantitative, qualitative, and psychometric methods (QQPM); and school psychology.

Masters Degree

The master of arts (MA) degree may be obtained with a specialization in cognition, learning and development (CLD program), or with a concentration in counseling psychology, or research and psychometric methods (QQPM program). Individuals in the CLD program may select the general CLD specialization or an option in health behavior or in college learning center. Endorsement programs are offered in secondary school counseling, and elementary school counseling.

Educational Specialist Degree

The Department of Educational Psychology offers the educational specialist degree (EdS) (67–72 hours beyond the BA) in school psychology. The EdS in school psychology leads to certification as a school psychologist.

Doctoral Degrees

The PhD degree is available to students wishing careers in cognition, learning and development, research methods, measurement, counseling psychology, and school psychology through the field of educational specialization called psychological studies in education. For further information, see and contact the chair of the Department's Graduate Committee.

Counseling and School Psychology Clinic

The Counseling and School Psychology Clinic in the Department of Educational Psychology serves the dual function of (1) providing training for qualified graduate students and of (2) providing services to individuals, public schools, families, and community agencies. Clinic therapists assist adults, families, children and youth experiencing academic, psychological, and behavioral concerns. In addition to therapeutic services, clinic therapists provide psychological testing and consultation for school related concerns. Therapeutic services are also provided for educational and vocational concerns. Service is provided by appointment.

Buros Center for Testing

The Buros Center for Testing comprises two separate institutes dedicated to improving the quality of contemporary assessment practices. Founded by Oscar K. Buros in 1937, the Buros Institute of Mental Measurements (BIMM) publishes critical evaluations of commercially available tests. In addition to its international reputation for providing test reviews, BIMM maintains the largest collection of tests and testing materials in the world. The Buros Institute for Assessment Consultation and Outreach (BIACO) was established in 1994 to expand the range of available assessment services to proprietary testing programs that include credentialing, state educational assessment, employment testing, and assessment literacy. Together, the two Buros Institutes advance the goals of the Department of Educational Psychology and the College of Education and Human Sciences by providing consultation and instructional services to graduate programs, by training and supporting graduate students in current assessment practices, and by serving assessment outreach needs both within and outside the state of Nebraska.

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Special Education and Communication Disorders

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders).

(<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Department Chair: Sherri Jones, Ph.D.

Graduate Committee Chair: Karen Hux, Ph.D.

The Department of Special Education and Communication Disorders offers graduate programs leading to the master of science degree in speech–language pathology and the master of arts and master of education degrees in special education. The department administers a PhD in human sciences with a specialization in communication disorders and the PhD or EdD in educational studies with a specialization in special education. The department also offers the professional doctor of audiology (AuD) degree in audiology and a combined AuD/PhD Program. For more information on doctoral programs in education call (402) 472–2141 or visit our website at www.unl.edu/barkley.

The masters degree program in speech–language pathology and the AuD program in audiology are accredited by the Council on Academic Accreditation in Audiology/Speech–Language Pathology.

For more information regarding graduate and professional programs offered by the Department of Special Education and Communication Disorders, please call (402) 472–2141 or visit our website at www.unl.edu/barkley.

Masters Degree Programs. Students seeking admission into a masters program should: 1) apply on–line to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the web site at www.unl.edu/barkley or by emailing the Graduate Secretary at special@unl.edu. Three letters of recommendation, preferably from former college instructors, should be submitted to the departmental Graduate Governance Committee Chair along with the departmental application. Each applicant should also arrange to have a current academic transcript and scores for the General Test of the Graduate Record Examination submitted to the Graduate Studies Office at the University of Nebraska–Lincoln. Early submission of the scores is important because the application file cannot be given consideration until the file is complete.

For a master of science degree in speech–language pathology, completion of an appropriate undergraduate or pre–professional program is required for full graduate standing. Students with strong potential but without an academic background in the major may be admitted on a provisional basis until deficiencies have been met. Completion of the masters degree requires a minimum of 48 hours of approved graduate work, including appropriate clinical practicum experiences for those seeking certification/licensure. The application deadline for fall admission into the M.S. program in Speech–Language Pathology is January 15.

Teacher Certification (licensure) and the Masters Degree. Masters degrees may be obtained with teaching certificate endorsements for special education and

speech–language pathology. Candidates must qualify for a Nebraska Teaching Certificate (see the Undergraduate Bulletin) for employment in the public schools. **Distance Education.** The Department has several special education masters degrees, an educational specialist degree, and/or teaching endorsement programs that are available in part or fully through distance education. These include Early Childhood Special Education, Deaf and Hard of Hearing, Mild/Moderate Disabilities, Visual Impairments, Autism, Severe Disabilities, and Supervisor of Special Education (joint with Educational Administration) programs. Distance courses are delivered via the Internet with Blackboard and/or Breeze software. Some distance courses may also require some weekend meetings, telephone or Breeze connections to the on–campus course section, and may have scheduled participation requirements. Field experience and practicum courses can be arranged in or near local communities but may require special fees. Where required courses are not currently available via distance delivery, an equivalent course (either on–campus or at a distance) from another institution can be substituted with the approval of the advisor or may be taken on the UNL campus during the summer. See the department website for information about computer requirements for distance on–line courses and distance course availability.

Educational Specialist (EdS) Degree. This program in special education provides opportunity for practitioners in the field to upgrade their skills and/or develop leadership skills as a special educator in a particular area of specialization. Two years successful professional experience as a special educator is a minimum requirement for admission. A minimum of 66 credit hours past the bachelors degree is required, with at least 24 credits to be taken after admission to UNL's EdS program. These include at least 40 hours of core content courses, 6 credits of electives or practica, and 3 credits of research. Relevant coursework completed as part of a prior masters degree can be used toward this degree. The program also requires a written comprehensive examination. Degree requirements can be used for additional teaching endorsements. Other relevant information and the application form can be found online at: www.unl.edu/barkley/sped/eds.shtml.

Doctor of Audiology (AuD) Degree. The Department of Special Education and Communication Disorders offers a professional audiology degree, the Doctor of Audiology (AuD) degree. The AuD program is a four–year course of study post B.A. or B.S. designed to provide students with academic and clinical practicum experiences that will meet or exceed the requirements of the American Speech–Language–Hearing Association (ASHA) for the Certificate of Clinical Competence in Audiology (CCC–AUD) as well as licensure requirements in most states.

Students seeking admission to the AuD program should download the application from www.unl.edu/barkley. Three letters of recommendation, preferably from former college instructors, should be submitted to the AuD program coordinator along with the departmental application. Students **do not** apply to the Office of Graduate Studies and submission of the Graduate Record Examination is not required for admission. Students should contact the Graduate Support Staff at special@unl.edu for further application instructions.

PhD/EdD Degree Programs. Students planning to work toward PhD or EdD degrees will follow essentially the same procedures for admission as described above under the masters degree programs. Students seeking admission into one of these programs should: 1) apply online to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the website at www.unl.edu/barkley or by emailing the Graduate Support Staff at special@unl.edu. Prospective students should submit three letters of recommendation along with the department application, a copy of their masters thesis and other relevant publications (if the student completed a thesis or has published) to the departmental Graduate Committee Chair. A current academic transcript and scores for the General Test of the Graduate Record Examination need to accompany the application when it is submitted to the Graduate Studies Office. Initial review of all applications is made within the Department of Special Education and Communication Disorders where consideration is given to whether an applicant meets the qualifications for entrance into the program and whether a student's interests are in accord with the type of education and direction the department faculty can provide. Final review of an application is made by the appropriate doctoral field graduate committee in special education or communications disorders.

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Teaching, Learning and Teacher Education

For a brief description of the program, application requirements and contact information, view the [graduate program summary](#).

(<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

Interim Department Chair: L. James Walter, Ph.D.

Graduate Committee Chair: Kathleen Wilson, Ph.D.

The Department of Teaching, Learning and Teacher Education (TLTE) provides masters, specialist and doctoral degree courses and programs for teachers, administrators, and other educational leaders and practitioners with a focus on scholarship and practice in curriculum and instruction in schools and non–school educational settings. Graduate endorsements are also offered in Reading Specialist K–12 and ESL.

Masters Degrees.

The aim of the TLTE masters program is to help educators build on their own experience, achieve a broad and deep understanding of educational practice, develop a professional identity, and engage in informed conversations about important teaching and learning issues towards making wise judgments regarding the many complex issues educators face. All candidates must complete a program which conforms to the requirements listed on the [TLTE masters program](#)

(<http://cehs.unl.edu/tlte/graduate/masters>) web page. There are two masters degrees available in TLTE: the MA and MEd. Both degree programs offer a good deal of flexibility to enable the student--in concert with a faculty adviser--to develop a course of study that meets the student's needs and interests.

If you are interested in earning teacher certification at the elementary level in combination with a master degree, a 14 month full time program (MAet) is available. If instead you see yourself teaching at the middle school or high school level with a specialization in science or mathematics, read about our newest 14 month full time programs (MAmt and MAst) where you can qualify for teacher certification and earn a Master of Arts degree. A limited number of fellowships are available with the MAst and MAmt programs.

Educational Specialist (EdS) Degree.

This program in curriculum and instruction provides an opportunity for practitioners in the field to upgrade their professional skills. Two years of successful professional experiences is a minimum requirement for admission. Sixty–six hours beyond the bachelors degree, research competence, practicum experiences, and a written comprehensive examination are basic requirements for the program. It is recommended that you contact the department Graduate Chair before applying.

Doctoral Programs.

The EdD and PhD degrees are available under the major heading Educational Studies refer to the web page [doctoral programs in education](#).

(<http://cehs.unl.edu/tlte/graduate/doctoral.shtml>) The EdD is recommended for those whose primary interest is in the application of theory and knowledge to improve educational practice. The PhD is designed for students seeking to conduct research in order to generate new knowledge or reform educational theory. The Department of Teaching, Learning and Teacher Education administers three doctoral–level specializations, available for both the EdD and PhD in Educational Studies. Teaching, Curriculum and Learning focuses on teaching and learning processes; Instructional Technology focuses on using technology as a learning tool in various educational settings; and Internet–based Education focuses on using the Internet as a platform for teaching and learning. The most current information on these specializations is kept up–to–date on the web page for [TLTE doctoral programs](#). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl>)

For additional information, see or of this bulletin. The Graduate Record Examination (GRE) is required for admission to the doctoral programs and foreign students must also submit a TOEFL score.

Faculty

Educational Administration

For faculty list, research interests and department contact information, view the [graduate program summary](#).

(<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Educational Psychology

For faculty list, research interests and department contact information, view the [graduate program summary](#).

(<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Special Education and Communication Disorders

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders). (<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Teaching, Learning and Teacher Education

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation). (<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

Retrieved from "<http://bulletin.unl.edu/graduate/Education> (<http://bulletin.unl.edu/graduate/Education>)"

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Engineering

Subject Areas

- [Agricultural Engineering \(AGEN\) \(#AGEN\)](#)
- [Architectural Engineering \(AREN\) \(#AREN\)](#)
- [Biological Systems Engineering \(BSEN\) \(#BSEN\)](#)
- [Biomedical Engineering \(BIME\) \(#BIME\)](#)
- [Chemical and Biomolecular Engineering \(CHME\) \(#CHME\)](#)
- [Civil Engineering \(CIVE\) \(#CIVE\)](#)
- [Construction \(CNST\) \(#CNST\)](#)
- [Construction Engineering \(CONE\) \(#CONE\)](#)
- [Electrical Engineering \(ELEC\) \(#ELEC\)](#)
- [Engineering \(ENGR\) \(#ENGR\)](#)
- [Engineering Mechanics \(ENGM\) \(#ENGM\)](#)
- [Environmental Engineering \(ENVE\) \(#ENVE\)](#)
- [Industrial and Management Systems Engineering \(IMSE\) \(#IMSE\)](#)
- [Mechanical Engineering \(MECH\) \(#MECH\)](#)
- [Metallurgical Engineering \(METL\) \(#METL\)](#)

Ω

Courses for AGEN (AGEN)

AGEN 424/824	Machine Design in Agricultural Engineering	LINK (http://bulletin.unl.edu/courses/AGEN/424)
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Prereqs:

Senior standing and [ENGM 325](http://bulletin.unl.edu/courses/ENGM/325) (<http://bulletin.unl.edu/courses/ENGM/325>).

Design of machine elements. Definition, analysis, and solution of a design problem in agricultural engineering.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AGEN 453/853	Irrigation and Drainage Systems Engineering	LINK (http://bulletin.unl.edu/courses/AGEN/453)
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Prereqs:

[CIVE 310](http://bulletin.unl.edu/courses/CIVE/310) (<http://bulletin.unl.edu/courses/CIVE/310>) or [MECH 310](http://bulletin.unl.edu/courses/MECH/310) (<http://bulletin.unl.edu/courses/MECH/310>); [AGEN 344](http://bulletin.unl.edu/courses/AGEN/344) (<http://bulletin.unl.edu/courses/AGEN/344>) or [BSEN 344](http://bulletin.unl.edu/courses/BSEN/344) (<http://bulletin.unl.edu/courses/BSEN/344>); or permission.

Analytical and design consideration of evapotranspiration, soil moisture, and water movement as related to irrigation and drainage systems; analysis and design of components of irrigation and drainage systems including water supplies, pumping plants, sprinkler systems, and center pivots.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AGEN 896	Special Problems	LINK (http://bulletin.unl.edu/courses/AGEN/896)
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Prereqs:

Permission

Investigation and written report on engineering problems not covered in sufficient depth through existing courses. Topic varies by semester.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

AGEN

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/AGEN/899\)](http://bulletin.unl.edu/courses/AGEN/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours: 6–10**Campus:****Course Delivery:** Classroom

AGEN

923**Advanced Design in Agricultural Engineering**[LINK \(http://bulletin.unl.edu/courses/AGEN/923\)](http://bulletin.unl.edu/courses/AGEN/923)**Prereqs:**

Agricultural engineering or permission

The use of theories of failure, fatigue, stress concentrations, shock and impact analysis in the design of machine members. Laboratory work includes an in-depth study of the testing and analysis of machine components.

Credit Hours: 3**Course Format:** Lab 3, Lecture 2**Campus:****Course Delivery:** Classroom

AGEN

941**Agricultural Waste Management**[LINK \(http://bulletin.unl.edu/courses/AGEN/941\)](http://bulletin.unl.edu/courses/AGEN/941)Crosslisted as *BSEN 941***Prereqs:**

Permission

Aerobic, anaerobic, and physical-chemical treatment, energy recovery and protein synthesis processes for high-strength organic materials; agricultural applications including composting, ammonia stripping, nitrification, denitrification, and land disposal of organic and chemically treated materials.

Credit Hours: 3**Course Format:** Lecture 3**Campus:****Course Delivery:** Classroom

AGEN

953**Advanced Irrigation and Drainage Systems Engineering**[LINK \(http://bulletin.unl.edu/courses/AGEN/953\)](http://bulletin.unl.edu/courses/AGEN/953)**Prereqs:**

[AGEN 853 \(http://bulletin.unl.edu/courses/AGEN/853\)](http://bulletin.unl.edu/courses/AGEN/853), [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) or permission

Advanced analytical considerations of environmental aspects of soil-plant systems; movement of water in soils; water movement through plants; and irrigation and drainage systems for controlling water in the soil-plant environment.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

AGEN

954**Hydrologic Modeling of Small Watersheds**[LINK \(http://bulletin.unl.edu/courses/AGEN/954\)](http://bulletin.unl.edu/courses/AGEN/954)**Prereqs:**

[AGEN 854 \(http://bulletin.unl.edu/courses/AGEN/854\)](http://bulletin.unl.edu/courses/AGEN/854) and [CIVE 822 \(http://bulletin.unl.edu/courses/CIVE/822\)](http://bulletin.unl.edu/courses/CIVE/822)

Mathematical modeling of the runoff process for small rural and urban watersheds. Appraisal of techniques for estimating runoff volume and peak discharges for ungauged watersheds; hydrograph synthesis; composite hydrographs; and frequency relationships of rainfall and runoff.

Credit Hours: 2**Course Format:** Lecture 2**Campus:****Course Delivery:** Classroom

AGEN

998**Advanced Topics**[LINK \(http://bulletin.unl.edu/courses/AGEN/998\)](http://bulletin.unl.edu/courses/AGEN/998)Crosslisted as *BSEN 998***Prereqs:****Credit Hours:** 1–6

Permission

Individual study in advanced engineering topics that are not covered in regular course work or thesis. Topic varies by term.

Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

AGEN

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/AGEN/999\)](http://bulletin.unl.edu/courses/AGEN/999)

Prereqs:

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

BSEN

441/841

Animal Waste Management

Crosslisted as *AGEN 441/841*

[LINK \(http://bulletin.unl.edu/courses/BSEN/441\)](http://bulletin.unl.edu/courses/BSEN/441)

Prereqs:

Senior standing.

Characterization of wastes from animal production. Specification and design of collection, transport, storage, treatment, and land application systems. Air and water pollution, regulatory and management aspects.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BSEN

446/846

Unit Operations of Biological Processing

Crosslisted as *AGEN 446/846*

[LINK \(http://bulletin.unl.edu/courses/BSEN/446\)](http://bulletin.unl.edu/courses/BSEN/446)

Prereqs:

AGEN 225 or BSEN 225 (<http://bulletin.unl.edu/courses/BSEN/225>) and CHEM 332 (<http://bulletin.unl.edu/courses/CHEM/332>) or equivalent.

Application of heat, mass, and moment transport in analysis and design of unit operations for biological and agricultural materials. Evaporation, drying, distillation, extraction, leaching, thermal processing, membrane separation, centrifugation, and filtration.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

BSEN

460/860

Instrumentation and Controls

Crosslisted as *AGEN 460/860*

[LINK \(http://bulletin.unl.edu/courses/BSEN/460\)](http://bulletin.unl.edu/courses/BSEN/460)

Prereqs:

Senior standing or permission.

Analysis and design of instrumentation and controls for agricultural and biological production, management and processing. Theory of basic sensors and transducers, analog and digital electrical control circuits, and the interfacing of computers with instruments and controls. Emphasis on signal analysis and interpretation for improving system performance.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

BSEN

889

Seminar I

Crosslisted as *AGEN 889*

[LINK \(http://bulletin.unl.edu/courses/BSEN/889\)](http://bulletin.unl.edu/courses/BSEN/889)

All entering biological systems engineering students and all agricultural engineering students are required to register for *889.

Introduction into departmental and campus resources, professionalism, preparation and delivery of presentations, technical writing, and additional topics as arranged by enrolled students.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

BSEN

898**Internship**Crosslisted as *AGEN 898*[LINK \(http://bulletin.unl.edu/courses/BSEN/898\)](http://bulletin.unl.edu/courses/BSEN/898)**Prereqs:
Permission**

Students required to write an internship report of their creative accomplishments after completion of the internship. Students may spend up to nine months at the cooperating partner's workplace.

Solution of engineering or management problems through a non-academic experience within the private sector or a government agency. The experience entails all or some of the following: research, design, analysis, and testing on an engineering problem. A plan, which documents how the individual will demonstrate creativity during the internship must be approved prior to the internship.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

BSEN

989**Seminar II**Crosslisted as *AGEN 989*[LINK \(http://bulletin.unl.edu/courses/BSEN/989\)](http://bulletin.unl.edu/courses/BSEN/989)

All PhD students in biological systems engineering or agricultural engineering must register for 989.

Developing a graduate program, orientation to research, grant and research proposal preparation, experimental design and analysis, manuscript preparation and review, preparations and delivery of technical presentations, and research management.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

GEOL

985**Solute Movement in Soils**Crosslisted as *CIVE 955, AGRO 955, AGEN 955*[LINK \(http://bulletin.unl.edu/courses/GEOL/985\)](http://bulletin.unl.edu/courses/GEOL/985)**Prereqs:**

MATH 208 (<http://bulletin.unl.edu/courses/MATH/208>); **AGRO 861** (<http://bulletin.unl.edu/courses/AGRO/861>) or **GEOL 888** (<http://bulletin.unl.edu/courses/GEOL/888>) or **MSYM 852** (<http://bulletin.unl.edu/courses/MSYM/852>) or **CIVE 858** (<http://bulletin.unl.edu/courses/CIVE/858>)

Knowledge of a programming language. MATH 821 (<http://bulletin.unl.edu/courses/MATH/821>) recommended. Offered even-numbered calendar years.

Examination of the theory and experimental evidence available to characterize the movement of chemicals in soil. Both saturated and unsaturated flow conditions examined. Initial presentation of basic theoretical concepts. Remainder of class a discussion of the literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Ω

Courses for AREN (AREN)

AREN

411/811**Indoor Air Quality Engineering**[LINK \(http://bulletin.unl.edu/courses/AREN/411\)](http://bulletin.unl.edu/courses/AREN/411)**Prereqs:**

AREN 3120 (<http://bulletin.unl.edu/courses/AREN/3120>) (UNO).

Indoor air quality. Codes, standards, HVAC equipment, commissioning, operation, maintenance, investigation, and remediation.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AREN

420/820**Lighting II: Theory, Design and Application**[LINK \(http://bulletin.unl.edu/courses/AREN/420\)](http://bulletin.unl.edu/courses/AREN/420)

Prereqs:
(UNO) AE 3200.

This course is a prerequisite for: [AREN 809 \(http://bulletin.unl.edu/courses/AREN/809\)](http://bulletin.unl.edu/courses/AREN/809)

[AREN 420 \(http://bulletin.unl.edu/courses/AREN/420/820\)](http://bulletin.unl.edu/courses/AREN/420/820)
 [\(http://bulletin.unl.edu/courses/AREN/820\)](http://bulletin.unl.edu/courses/AREN/820) lab sessions include photometric measurements and computer applications.

Design and analysis of lighting systems; the integration between the lighting design process and the technical foundations for building lighting; design criteria; lighting design procedures lighting modes and subjective effects; and calculation tools.

Credit Hours:	3
Campus:	UNO
Course Delivery:	Classroom

AREN 801 Graduate Design Project I

[LINK \(http://bulletin.unl.edu/courses/AREN/801\)](http://bulletin.unl.edu/courses/AREN/801)

Prereqs:
(UNO) AE 4010 or AE 4020; or (UNO) CIVE 3140
(<http://bulletin.unl.edu/courses/CIVE/3140>); and permission

*AREN *801/(UNO) AE *8010 requires a professionally-written report and oral presentation that demonstrates both mastery of the subject and a high level of writing and oral communication skills.*

Perform a detailed investigation in the Option Area of the master of architectural engineering degree. Students are permitted to enroll in this course twice. Those who fail to earn a passing grade after enrolling in this course a second time will be referred to the AE Graduate Committee, and this may result in termination of their program of graduate studies.

Credit Hours:	3
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

AREN 802 Graduate Design Project II

[LINK \(http://bulletin.unl.edu/courses/AREN/802\)](http://bulletin.unl.edu/courses/AREN/802)

Prereqs:
AREN *801/(UNO) AE *8010; and permission

*Second of a two-course capstone design project for the MAE degree. AREN *802/(UNO) AE *8020 requires a professionally-written report and oral presentation that demonstrates both mastery of the subject and a high level of writing and oral communication skills.*

Complete a detailed investigation in the Option Area of the master of architectural engineering degree. Students are permitted to enroll in this course twice. Those who fail to earn a passing grade after enrolling in AE 8020/[AREN 802 \(http://bulletin.unl.edu/courses/AREN/802\)](http://bulletin.unl.edu/courses/AREN/802) a second time will be referred to the AE Graduate Committee, and this may result in termination of their program of graduate studies.

Credit Hours:	3
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

AREN 803 Building Communication Systems

[LINK \(http://bulletin.unl.edu/courses/AREN/803\)](http://bulletin.unl.edu/courses/AREN/803)

Prereqs:
AE 3220

Integration of voice, data and video systems into overall building design. Scalability; wireless systems; interference; project management; current industry standards and protocols.

Credit Hours:	3
Course Format:	Lab, Lecture
Campus:	UNO
Course Delivery:	Classroom

AREN 805 Sustainable Building Design

[LINK \(http://bulletin.unl.edu/courses/AREN/805\)](http://bulletin.unl.edu/courses/AREN/805)

Prereqs:
CIVE 341 (<http://bulletin.unl.edu/courses/CIVE/341>) or ARCH 332

Credit Hours:	3
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<http://bulletin.unl.edu/courses/ARCH/332>); AE 310 or [AREN 841](http://bulletin.unl.edu/courses/AREN/841) (<http://bulletin.unl.edu/courses/AREN/841>) or [ARCH 333](http://bulletin.unl.edu/courses/ARCH/333) (<http://bulletin.unl.edu/courses/ARCH/333>)

Campus:
Course Delivery: Classroom

Integrates building design with the principles of minimum resource use, energy conservation and healthy indoor environments.

AREN 806 Architectural Engineering Professional Practice I

[LINK \(http://bulletin.unl.edu/courses/AREN/806\)](http://bulletin.unl.edu/courses/AREN/806)

Prereqs:
[ISMG 2060 \(http://bulletin.unl.edu/courses/ISMG/2060\)](http://bulletin.unl.edu/courses/ISMG/2060)

Investigation of issues related to the integration of building design processes with professional architectural engineering practice. Aspects of building design project finance, budgets, contracts, legal issues, professional licensure, professional responsibility and professional ethics. The perspective of life-cycle costing.

Credit Hours: 3
Campus:
Course Delivery: Classroom

AREN 807 Architectural Engineering Professional Practice II

[LINK \(http://bulletin.unl.edu/courses/AREN/807\)](http://bulletin.unl.edu/courses/AREN/807)

Prereqs:
[IMSE 206 \(http://bulletin.unl.edu/courses/IMSE/206\)](http://bulletin.unl.edu/courses/IMSE/206)/(UNO) [ISMG 2060 \(http://bulletin.unl.edu/courses/ISMG/2060\)](http://bulletin.unl.edu/courses/ISMG/2060); and AREN *806/(UNO) AE *8060

Continuation of investigation of issues related to the integration of building design processes with professional architectural engineering design practice.

Building design specifications, estimating, bidding, building construction contract negotiations, building design project management, project team personnel management, project risk, and key regulatory measures.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

AREN 808 Applied Experimental Design and Statistical Analysis

[LINK \(http://bulletin.unl.edu/courses/AREN/808\)](http://bulletin.unl.edu/courses/AREN/808)

Prereqs:
[STAT 380 \(http://bulletin.unl.edu/courses/STAT/380\)](http://bulletin.unl.edu/courses/STAT/380)/(UNO) 3800

Overview of advanced experimental design methods and statistical analysis techniques. Application of these to the planning, execution, analysis, and description of research in architectural engineering.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

AREN 809 Interdisciplinary Team Design Project

[LINK \(http://bulletin.unl.edu/courses/AREN/809\)](http://bulletin.unl.edu/courses/AREN/809)

Prereqs:
For Acoustics and/or Mechanical option: [AREN 412 \(http://bulletin.unl.edu/courses/AREN/412\)](http://bulletin.unl.edu/courses/AREN/412)/(UNO) AE 4120. For Electrical and/or Lighting option: [AREN 420 \(http://bulletin.unl.edu/courses/AREN/420\)](http://bulletin.unl.edu/courses/AREN/420)/820 (<http://bulletin.unl.edu/courses/AREN/820>)/(UNO) AE 4200. For (UNO) Structural option: [CET 4410 \(http://bulletin.unl.edu/courses/CET/4410\)](http://bulletin.unl.edu/courses/CET/4410).

AREN 809 (http://bulletin.unl.edu/courses/AREN/809) is the capstone design course in architectural engineering.

Develop and design the electrical, lighting, mechanical, and structural systems for a building, from programming through construction documents, as an interdisciplinary team effort.

Credit Hours: 4
Course Format: Lecture 4
Campus:
Course Delivery: Classroom

AREN
810

Solar Energy Systems

[LINK \(http://bulletin.unl.edu/courses/AREN/810\)](http://bulletin.unl.edu/courses/AREN/810)

Prereqs:
[MECH 820 \(http://bulletin.unl.edu/courses/MECH/820\)](http://bulletin.unl.edu/courses/MECH/820) or permission

Fundamentals of solar energy system modeling analysis and design. Solar radiation modeling, surface properties of opaque and glazing materials, flat-plate collector design, solar energy storage, solar system thermal calculation, system application and design.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AREN
812

Building Control and Automation Systems

[LINK \(http://bulletin.unl.edu/courses/AREN/812\)](http://bulletin.unl.edu/courses/AREN/812)

Prereqs:
[MATH 3350 \(http://bulletin.unl.edu/courses/MATH/3350\)](http://bulletin.unl.edu/courses/MATH/3350); [AE 3100, AE 4120, AE 4120](#)

This course is a prerequisite for: [AREN 913 \(http://bulletin.unl.edu/courses/AREN/913\)](http://bulletin.unl.edu/courses/AREN/913), [AREN 915 \(http://bulletin.unl.edu/courses/AREN/915\)](http://bulletin.unl.edu/courses/AREN/915), [AREN 916 \(http://bulletin.unl.edu/courses/AREN/916\)](http://bulletin.unl.edu/courses/AREN/916), [AREN 917 \(http://bulletin.unl.edu/courses/AREN/917\)](http://bulletin.unl.edu/courses/AREN/917)

Fundamental concepts of building control theory and automation. Building control: state-variable plant and closed-loop system representation, time and frequency response, stability, root-locus methods and design of building control systems. Automation: thermostats, dampers, valves, direct digital control, control of air handling units, terminal units, primary building systems, supervisory control and system optimization, communication systems, BACnet, and DDC system design and implementation.

Credit Hours:	3
Campus:	UNO
Course Delivery:	Classroom

AREN
814

Building III: Advanced Systems

[LINK \(http://bulletin.unl.edu/courses/AREN/814\)](http://bulletin.unl.edu/courses/AREN/814)

Prereqs:
[MECH 300 \(http://bulletin.unl.edu/courses/MECH/300\)](http://bulletin.unl.edu/courses/MECH/300) and [MECH 420 \(http://bulletin.unl.edu/courses/MECH/420\)](http://bulletin.unl.edu/courses/MECH/420); [AREN 310 \(http://bulletin.unl.edu/courses/AREN/310\)](http://bulletin.unl.edu/courses/AREN/310)/(UNO) [AE 3100 and AREN 412 \(http://bulletin.unl.edu/courses/AREN/412\)](#)/(UNO) [AE 4120; and permission.](#)

This course is a prerequisite for: [AREN 917 \(http://bulletin.unl.edu/courses/AREN/917\)](http://bulletin.unl.edu/courses/AREN/917)

Advanced analysis, design, and modeling of building energy systems. Mass transfer and exchangers, vapor compression chillers, absorption chillers, central cooling plants, boilers systems and heating plants, cooling storage systems and plants, and cogeneration systems and plants.

Credit Hours:	4
Course Format:	Lecture 4
Campus:	
Course Delivery:	Classroom

AREN
815

Building Energy Simulation and Performance Contracting

[LINK \(http://bulletin.unl.edu/courses/AREN/815\)](http://bulletin.unl.edu/courses/AREN/815)

Prereqs:
[AE 3100, AE 4120, AE 4140, and AE 4400 \(UNO\)](#)

Integrated approach to deliver energy improvement retrofit projects that provide economical and ecological benefits. Proficiency in EnergyPlus or DOE-2 and in retrofit cost estimation will be attained and integrated into an engineering economic analysis. Partnering configurations, contracts, financing, and measurement and verification. Concepts applied to a practical class project.

Credit Hours:	3
Campus:	UNO
Course Delivery:	Classroom

AREN

Theory and Application of Thermal Systems Measurement

[LINK \(http://bulletin.unl.edu/courses/AREN/817\)](http://bulletin.unl.edu/courses/AREN/817)

817

Prereqs:
STAT 8805 (<http://bulletin.unl.edu/courses/STAT/8805>) or equivalent

Analysis, theory, and methods of instrumentation for thermal system energy consumption measurement and scientific research testing. Emphasis on sensors, traducers, and error analysis.

Credit Hours:	3
Campus:	UNO
Course Delivery:	Classroom

AREN

818**Indoor Air Quality Design**[LINK \(http://bulletin.unl.edu/courses/AREN/818\)](http://bulletin.unl.edu/courses/AREN/818)

Prereqs:
AREN 811 (<http://bulletin.unl.edu/courses/AREN/811>) or permission

Fundamentals of project management within the mechanical and electrical contracting industry. Emphasis on codes, contract documents, productivity, coordination, project control and administration, scheduling, safety, and project closeout, all from a speciality contracting perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AREN

821**Lighting II: Advanced Design Practice**[LINK \(http://bulletin.unl.edu/courses/AREN/821\)](http://bulletin.unl.edu/courses/AREN/821)

Prereqs:
AREN 820 (<http://bulletin.unl.edu/courses/AREN/820>)

Design and analysis of lighting for outdoor sports, floodlighting and interior applications; economic analysis; modeling algorithms; advanced photometrics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AREN

822**Electrical Systems for Buildings II**[LINK \(http://bulletin.unl.edu/courses/AREN/822\)](http://bulletin.unl.edu/courses/AREN/822)

Prereqs:
AE 3220

Power systems analysis and design, integration of electrical system components into functional, safe and reliable power distribution systems for commercial and industrial facilities. Per unit analysis, fault analysis, power quality, grounding, overcurrent protection coordination and complete power system design.

Credit Hours:	3
Course Format:	Lab, Lecture
Campus:	UNO
Course Delivery:	Classroom

AREN

823**Light Sources**[LINK \(http://bulletin.unl.edu/courses/AREN/823\)](http://bulletin.unl.edu/courses/AREN/823)

Prereqs:
AREN 820 (<http://bulletin.unl.edu/courses/AREN/820>)

Fundamental science and principles of light generation in modern electric light sources; characteristics that influence applications of light sources.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AREN

824**Lighting Metrics**[LINK \(http://bulletin.unl.edu/courses/AREN/824\)](http://bulletin.unl.edu/courses/AREN/824)

Prereqs:
AE 3200 or equivalent

Credit Hours:	3
Campus:	UNO

Critical survey and application of measures developed to characterize the effects of lighting systems on human perception and performance. Contrast, visibility, visual performance (Relative Visual Performance, Visibility Level); visual comfort probability; discomfort glare rating system; and unified glare rating system.

Course Delivery: Classroom

AREN
825 **Daylighting**

[LINK \(http://bulletin.unl.edu/courses/AREN/825\)](http://bulletin.unl.edu/courses/AREN/825)

Prereqs:
[AREN 820 \(http://bulletin.unl.edu/courses/AREN/820\)](http://bulletin.unl.edu/courses/AREN/820)

Use of natural light in building design. Solar position, sky luminance, distribution models, daylighting equipment, calculation methods, and psychological concepts. Extensive use of computer modeling and scale models.

Credit Hours: 3
Campus:
Course Delivery: Classroom

AREN
830 **Advanced Noise Control**

[LINK \(http://bulletin.unl.edu/courses/AREN/830\)](http://bulletin.unl.edu/courses/AREN/830)

Prereqs:
[AE 3300 or equivalent](#)

Characterization of acoustic sources; use and measurement of sound power and intensity; sound-structure interaction; acoustic enclosures and barriers; muffling devices; vibration control; and active noise control.

Credit Hours: 3
Campus: UNO
Course Delivery: Classroom

AREN
833 **Advanced Architectural Acoustics**

[LINK \(http://bulletin.unl.edu/courses/AREN/833\)](http://bulletin.unl.edu/courses/AREN/833)

Prereqs:
[AE 3300 or equivalent](#)

This course is a prerequisite for: [AREN 930 \(http://bulletin.unl.edu/courses/AREN/930\)](http://bulletin.unl.edu/courses/AREN/930)

Advanced study of the behavior of sound in rooms. Design of acoustical spaces; physical and computational modeling; measurement techniques; and introduction to sound reinforcement in rooms.

Credit Hours: 3
Campus: UNO
Course Delivery: Classroom

AREN
835 **Electroacoustics**

[LINK \(http://bulletin.unl.edu/courses/AREN/835\)](http://bulletin.unl.edu/courses/AREN/835)

Prereqs:
[AE 3300 or equivalent](#)

Electrical-mechanical-acoustical circuit analogies; transducers, loudspeakers, microphones, and accelerometers; directivity; calibration techniques; and sound reinforcement systems in rooms.

Credit Hours: 3
Campus: UNO
Course Delivery: Classroom

AREN
841 **Building Energy and Acoustical Systems**

[LINK \(http://bulletin.unl.edu/courses/AREN/841\)](http://bulletin.unl.edu/courses/AREN/841)

Prereqs:
[Admission to MEng program or permission](#)

This course is a prerequisite for: [AREN 805 \(http://bulletin.unl.edu/courses/AREN/805\)](http://bulletin.unl.edu/courses/AREN/805)

Building energy and acoustical systems: energy systems, including psychometric processes and applications; load calculations; distribution systems; acoustic fundamentals; room acoustics; and noise control.

Credit Hours: 3
Campus:
Course Delivery: Classroom

AREN

851**Masonry and Timber Design**[LINK \(http://bulletin.unl.edu/courses/AREN/851\)](http://bulletin.unl.edu/courses/AREN/851)**Prereqs:**

CIVE 440 (<http://bulletin.unl.edu/courses/CIVE/440>) (Reinforced Concrete Design) or equivalent; **CIVE 441** (<http://bulletin.unl.edu/courses/CIVE/441>) (Steel Design) or equivalent.

Masonry as a structural material, Unreinforced Masonry Design, Reinforced Masonry Design, State-of-the-art Assessment methods for Existing Masonry Structures, Timber as a structural material, Timber Design.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

AREN

880**Graduate Seminar in Architectural Engineering and Construction**[LINK \(http://bulletin.unl.edu/courses/AREN/880\)](http://bulletin.unl.edu/courses/AREN/880)

The objectives of this course are to broaden student knowledge on engineering topics, improve presentation and professional skills, as well as learn about professional development resources available on campus. To pass the course, a student must attend a minimum of 15 Durham School Graduate Student Seminars, MAE project presentations, and/or MS/PhD thesis presentations in the College of Engineering. The student must also present one seminar within the Durham School Graduate Student Seminar series, prior to the final oral examination. All MS and PhD graduate students in architectural engineering must enroll within their first 3 semesters of matriculation.

Credit Hours:	1
Course Format:	Independent Study 1
Campus:	UNO
Course Delivery:	Classroom

AREN

892**Individual Instruction in Architectural Engineering**[LINK \(http://bulletin.unl.edu/courses/AREN/892\)](http://bulletin.unl.edu/courses/AREN/892)**Prereqs:**

Permission.

Not open to nondegree students.

Individual instruction in Architectural Engineering at the graduate level in a selected area, under the supervision and guidance of an Architectural Engineering faculty member.

Credit Hours:	1-3
Max credits per degree:	3
Course Format:	Independent Study
Campus:	UNO
Course Delivery:	Classroom

AREN

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/AREN/899\)](http://bulletin.unl.edu/courses/AREN/899)**Prereqs:**

Admission to AREN/AE (UNO) masters degree program and permission of major adviser

Credit Hours:	6-10
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

AREN

913**Dynamic Programming and Optimal Control**[LINK \(http://bulletin.unl.edu/courses/AREN/913\)](http://bulletin.unl.edu/courses/AREN/913)**Prereqs:**

AE 3100, AE 4120, AE 4140 ; AREN 812 (<http://bulletin.unl.edu/courses/AREN/812>)

Concepts and implementation of dynamic programming for building optimal and adaptive control. Deterministic shortest-path applications and continuous-time optimal control, inventory control, perfect and imperfect state information, suboptimal and adaptive control, discounted infinite horizon and stochastic shortest-path problems including Q-Learning.

Credit Hours:	3
Campus:	UNO
Course Delivery:	Classroom

AREN

915**Modern Building Control Applications**[LINK \(http://bulletin.unl.edu/courses/AREN/915\)](http://bulletin.unl.edu/courses/AREN/915)**Prereqs:**

AE 3100, AE 4120, AE 4140 ; [AREN 812](http://bulletin.unl.edu/courses/AREN/812)
 [\(http://bulletin.unl.edu/courses/AREN/812\)](http://bulletin.unl.edu/courses/AREN/812)

Neuro-dynamic programming/reinforcement learning methodology, fuzzy logic methods, and evolutionary/genetic algorithms (GA) to building control problems. Concepts applied to case studies from problem areas.

Credit Hours:	3
Campus:	UNO
Course Delivery:	Classroom

AREN

916**Building Energy Systems Modeling, Control and Optimization**[LINK \(http://bulletin.unl.edu/courses/AREN/916\)](http://bulletin.unl.edu/courses/AREN/916)**Prereqs:**

AE 420 and [AREN 812](http://bulletin.unl.edu/courses/AREN/812) (<http://bulletin.unl.edu/courses/AREN/812>); or permission

Modeling, control, and optimization of the secondary building energy systems: building envelope, room comfort zones, air handling units, cooling and heating water loops.

Credit Hours:	3
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

AREN

917**Primary Energy Systems Modeling, Control and Optimization**[LINK \(http://bulletin.unl.edu/courses/AREN/917\)](http://bulletin.unl.edu/courses/AREN/917)**Prereqs:**

[AREN 812](http://bulletin.unl.edu/courses/AREN/812) (<http://bulletin.unl.edu/courses/AREN/812>), [AREN 814](http://bulletin.unl.edu/courses/AREN/814)
 [\(http://bulletin.unl.edu/courses/AREN/814\)](http://bulletin.unl.edu/courses/AREN/814) or permission

Modeling, control, and optimization of the primary building energy systems: central distribution systems, chiller systems, boiler systems, central cooling plants, central heating plants, and thermal storage systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AREN

918**Computational Fluid Dynamics Modeling of Indoor Environments**[LINK \(http://bulletin.unl.edu/courses/AREN/918\)](http://bulletin.unl.edu/courses/AREN/918)**Prereqs:**

[AREN 811](http://bulletin.unl.edu/courses/AREN/811) (<http://bulletin.unl.edu/courses/AREN/811>), [MECH 810](http://bulletin.unl.edu/courses/MECH/810)
 [\(http://bulletin.unl.edu/courses/MECH/810\)](http://bulletin.unl.edu/courses/MECH/810), or permission

Application of computational fluid dynamics software to modeling of indoor environments. Turbulence modeling, boundary conditions, natural and forced convection flows, species transport, and fire modeling.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AREN

920**Color Theory**[LINK \(http://bulletin.unl.edu/courses/AREN/920\)](http://bulletin.unl.edu/courses/AREN/920)**Prereqs:**

[AREN 820](http://bulletin.unl.edu/courses/AREN/820) (<http://bulletin.unl.edu/courses/AREN/820>)

Theories of color vision; theoretical and mathematical basis for chromaticity, color temperature, color rendering metrics, color matching functions, and color spaces; spectral weighing functions; and measurement of color.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AREN

921**Current Research in Illumination Engineering**[LINK \(http://bulletin.unl.edu/courses/AREN/921\)](http://bulletin.unl.edu/courses/AREN/921)

Current research in illumination engineering. Experimental methodologies

Credit Hours:	3
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and research practices. Technical papers from current lighting journals.

Campus:

Course Delivery: Classroom

AREN
922 Behavioral Sciences for Lighting Research

[LINK \(http://bulletin.unl.edu/courses/AREN/922\)](http://bulletin.unl.edu/courses/AREN/922)

Experimental design methods and statistical analysis techniques, specifically as these are applied to the planning, execution, analysis and description of lighting experiments.

Credit Hours: 3

Campus:

Course Delivery: Classroom

AREN
923 Psychological Aspects of Lighting

[LINK \(http://bulletin.unl.edu/courses/AREN/923\)](http://bulletin.unl.edu/courses/AREN/923)

Review of research investigating the effects of light and color on human physiology, psychological processes, and human subjective response to lighting.

Credit Hours: 3

Campus:

Course Delivery: Classroom

AREN
930 Current Topics in Architectural Acoustics

[LINK \(http://bulletin.unl.edu/courses/AREN/930\)](http://bulletin.unl.edu/courses/AREN/930)

Prereqs:
[AREN 833 \(http://bulletin.unl.edu/courses/AREN/833\)](http://bulletin.unl.edu/courses/AREN/833)

Current topics in architectural acoustics. Objective versus subjective measures in performance spaces, electronic enhancement of rooms, advanced computational modeling techniques, and auralization.

Credit Hours: 3

Campus:

Course Delivery: Classroom

AREN
997 Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/AREN/997\)](http://bulletin.unl.edu/courses/AREN/997)

Prereqs:
Permission

Supervised non-thesis research and independent study.

Credit Hours: 1-6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

AREN
998 Special Topics

[LINK \(http://bulletin.unl.edu/courses/AREN/998\)](http://bulletin.unl.edu/courses/AREN/998)

Prereqs:
Permission

Advanced topics in architectural engineering.

Credit Hours: 1-3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

AREN
999 Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/AREN/999\)](http://bulletin.unl.edu/courses/AREN/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

Courses for BSEN (BSEN)

AGEN 453/853	Irrigation and Drainage Systems Engineering Crosslisted as <i>BSEN 453/853</i>	LINK (http://bulletin.unl.edu/courses/AGEN/453)
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Prereqs:
CIVE 310 (<http://bulletin.unl.edu/courses/CIVE/310>) or **MECH 310** (<http://bulletin.unl.edu/courses/MECH/310>); **AGEN 344** (<http://bulletin.unl.edu/courses/AGEN/344>) or **BSEN 344** (<http://bulletin.unl.edu/courses/BSEN/344>); or permission.

Analytical and design consideration of evapotranspiration, soil moisture, and water movement as related to irrigation and drainage systems; analysis and design of components of irrigation and drainage systems including water supplies, pumping plants, sprinkler systems, and center pivots.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

AGEN 896	Special Problems Crosslisted as <i>BSEN 896</i>	LINK (http://bulletin.unl.edu/courses/AGEN/896)
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Prereqs:
Permission

Investigation and written report on engineering problems not covered in sufficient depth through existing courses. Topic varies by semester.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

AGEN 941	Agricultural Waste Management Crosslisted as <i>BSEN 941</i>	LINK (http://bulletin.unl.edu/courses/AGEN/941)
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Prereqs:
Permission

Aerobic, anaerobic, and physical-chemical treatment, energy recovery and protein synthesis processes for high-strength organic materials; agricultural applications including composting, ammonia stripping, nitrification, denitrification, and land disposal of organic and chemically treated materials.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGEN 998	Advanced Topics Crosslisted as <i>BSEN 998</i>	LINK (http://bulletin.unl.edu/courses/AGEN/998)
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Prereqs:
Permission

Individual study in advanced engineering topics that are not covered in regular course work or thesis. Topic varies by term.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

BSEN 414/814	Medical Imaging Systems	LINK (http://bulletin.unl.edu/courses/BSEN/414)
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Prereqs:
BSEN 311 (<http://bulletin.unl.edu/courses/BSEN/311>) or **ELEC 304** (<http://bulletin.unl.edu/courses/ELEC/304>).

Underlying physics, instrumentation, and signal analysis of biomedical and biological imaging modalities. MRI, X-ray, CT, ultrasound, nuclear medicine, and the human visual system. Energy-tissue interactions. Resolution, point spread function, contrast, diffraction, comparisons. Information content in images for biological systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BSEN

Introduction to Biomaterials[LINK \(http://bulletin.unl.edu/courses/BSEN/416\)](http://bulletin.unl.edu/courses/BSEN/416)**416/816****Prereqs:**

BSEN/AGEN 225 (<http://bulletin.unl.edu/courses/AGEN/225>); **BIOC 321** (<http://bulletin.unl.edu/courses/BIOC/321>) or **BIOC/BIOS/CHEM 431** (<http://bulletin.unl.edu/courses/CHEM/431>)/**831** (<http://bulletin.unl.edu/courses/CHEM/831>).

This course is a prerequisite for: **BSEN 418** (<http://bulletin.unl.edu/courses/BSEN/418>)

BSEN 416 (<http://bulletin.unl.edu/courses/BSEN/416>)/**816** (<http://bulletin.unl.edu/courses/BSEN/816>) requires the evaluation of current primary literature in the field.

Introduction to all types of bio-materials, metals, ceramics, polymers, and natural materials. Characterization of biomaterials, mechanical and physical properties, cell-biomaterials interactions, degradation, and host reaction to biomaterials. FDA testing and applications of biomaterials, implants, tissue engineering scaffolds, artificial organs, drug delivery, and adhesives.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BSEN

Tissue Engineering[LINK \(http://bulletin.unl.edu/courses/BSEN/418\)](http://bulletin.unl.edu/courses/BSEN/418)**418/818****Prereqs:**

BSEN 416 (<http://bulletin.unl.edu/courses/BSEN/416>)/**816** (<http://bulletin.unl.edu/courses/BSEN/816>) or equivalent.

BSEN 418 (<http://bulletin.unl.edu/courses/BSEN/418>)/**818** (<http://bulletin.unl.edu/courses/BSEN/818>) uses case studies to demonstrate clinical implementation of engineered tissues.

Introduction to engineering biological substitutes that can restore, maintain or improve organ function in therapy of diseases. Engineering methods and principles to design tissues and organs, cell and tissue biology, tissue growth and development, biomaterial scaffolds, growth factor and drug delivery, scaffold-cell interactions, and bioreactors.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BSEN

Animal Waste Management[LINK \(http://bulletin.unl.edu/courses/BSEN/441\)](http://bulletin.unl.edu/courses/BSEN/441)**441/841**Crosslisted as *AGEN 441/841***Prereqs:**

Senior standing.

Characterization of wastes from animal production. Specification and design of collection, transport, storage, treatment, and land application systems. Air and water pollution, regulatory and management aspects.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BSEN

Unit Operations of Biological Processing[LINK \(http://bulletin.unl.edu/courses/BSEN/446\)](http://bulletin.unl.edu/courses/BSEN/446)**446/846**Crosslisted as *AGEN 446/846***Prereqs:**

AGEN 225 or **BSEN 225** (<http://bulletin.unl.edu/courses/BSEN/225>) and **CHEM 332** (<http://bulletin.unl.edu/courses/CHEM/332>) or equivalent.

Application of heat, mass, and moment transport in analysis and design of unit operations for biological and agricultural materials. Evaporation, drying, distillation, extraction, leaching, thermal processing, membrane separation, centrifugation, and filtration.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

BSEN

Nonpoint Source Pollution Control Engineering[LINK \(http://bulletin.unl.edu/courses/BSEN/455\)](http://bulletin.unl.edu/courses/BSEN/455)**455/855**Crosslisted as *CIVE 455/855*

Prereqs:
[BSEN 326 \(http://bulletin.unl.edu/courses/BSEN/326\)](http://bulletin.unl.edu/courses/BSEN/326) or [CIVE 326 \(http://bulletin.unl.edu/courses/CIVE/326\)](http://bulletin.unl.edu/courses/CIVE/326); [BSEN 350 \(http://bulletin.unl.edu/courses/BSEN/350\)](http://bulletin.unl.edu/courses/BSEN/350) or [AGEN 350 \(http://bulletin.unl.edu/courses/AGEN/350\)](http://bulletin.unl.edu/courses/AGEN/350) or [CIVE 352 \(http://bulletin.unl.edu/courses/CIVE/352\)](http://bulletin.unl.edu/courses/CIVE/352).

Identification, characterization, and assessment of nonpoint source pollutants; transport mechanisms and remediation technologies; design methodologies and case studies.

Credit Hours:	3
Course Delivery:	Classroom

BSEN
460/860 **Instrumentation and Controls**

Crosslisted as *AGEN 460/860*

[LINK \(http://bulletin.unl.edu/courses/BSEN/460\)](http://bulletin.unl.edu/courses/BSEN/460)

Prereqs:
Senior standing or permission.

Analysis and design of instrumentation and controls for agricultural and biological production, management and processing. Theory of basic sensors and transducers, analog and digital electrical control circuits, and the interfacing of computers with instruments and controls. Emphasis on signal analysis and interpretation for improving system performance.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

BSEN
889 **Seminar I**

Crosslisted as *AGEN 889*

[LINK \(http://bulletin.unl.edu/courses/BSEN/889\)](http://bulletin.unl.edu/courses/BSEN/889)

*All entering biological systems engineering students and all agricultural engineering students are required to register for *889.*

Introduction into departmental and campus resources, professionalism, preparation and delivery of presentations, technical writing, and additional topics as arranged by enrolled students.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

BSEN
898 **Internship**

Crosslisted as *AGEN 898*

[LINK \(http://bulletin.unl.edu/courses/BSEN/898\)](http://bulletin.unl.edu/courses/BSEN/898)

Prereqs:
Permission

Students required to write an internship report of their creative accomplishments after completion of the internship. Students may spend up to nine months at the cooperating partner's workplace.

Solution of engineering or management problems through a non-academic experience within the private sector or a government agency. The experience entails all or some of the following: research, design, analysis, and testing on an engineering problem. A plan, which documents how the individual will demonstrate creativity during the internship must be approved prior to the internship.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

BSEN
899 **Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/BSEN/899\)](http://bulletin.unl.edu/courses/BSEN/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

BSEN
912 **Advanced Ultrasound Imaging**

[LINK \(http://bulletin.unl.edu/courses/BSEN/912\)](http://bulletin.unl.edu/courses/BSEN/912)

Prereqs:
[BSEN 311 \(http://bulletin.unl.edu/courses/BSEN/311\)](http://bulletin.unl.edu/courses/BSEN/311) or [ELEC 304 \(http://bulletin.unl.edu/courses/ELEC/304\)](http://bulletin.unl.edu/courses/ELEC/304) Engineering design and analysis of medical ultrasound applications

Beamforming, diffraction, wave space, scattering, imaging. Interactions of mechanical energy and tissue. Linear and phased arrays. Doppler estimation of blood flow velocity. Tumor and cyst characterization. Other modern research topics in medical ultrasound.

Credit Hours: 3
Campus:
Course Delivery: Classroom

BSEN
935

Analysis of Engineering Properties of Biological Materials

[LINK \(http://bulletin.unl.edu/courses/BSEN/935\)](http://bulletin.unl.edu/courses/BSEN/935)

Prereqs:
[BSEN 846 \(http://bulletin.unl.edu/courses/BSEN/846\)](http://bulletin.unl.edu/courses/BSEN/846) or equivalent

Current and relevant mechanical, rheological, thermal, electrical, and optical properties as related to the engineering of processing, storage, handling, and utilization systems for biological materials are selected for analysis.

Credit Hours: 3
Course Format: Lab 2, Lecture 2
Campus:
Course Delivery: Classroom

BSEN
943

Bioenvironmental Engineering

[LINK \(http://bulletin.unl.edu/courses/BSEN/943\)](http://bulletin.unl.edu/courses/BSEN/943)

Prereqs:
[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

An engineer analysis of livestock, their environment and the interaction between the two; mathematical models, heat transfer, energy balances, environmental measurements, physiological measurements, calorimetry.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

BSEN
951

Advanced Mathematical Modeling in Biological Engineering

[LINK \(http://bulletin.unl.edu/courses/BSEN/951\)](http://bulletin.unl.edu/courses/BSEN/951)

Advanced mathematical modeling techniques and applications. Specific topics from current literature and vary depending on research interests.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

BSEN
954

Turbulent Transfer in the Atmospheric Surface Layer

Crosslisted as *NRES 954*

[LINK \(http://bulletin.unl.edu/courses/BSEN/954\)](http://bulletin.unl.edu/courses/BSEN/954)

Prereqs:
[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821); [MECH 310 \(http://bulletin.unl.edu/courses/MECH/310\)](http://bulletin.unl.edu/courses/MECH/310) or [NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808) or [BIOS 857 \(http://bulletin.unl.edu/courses/BIOS/857\)](http://bulletin.unl.edu/courses/BIOS/857); or equivalent or permission

Offered spring semester of odd-numbered calendar years.

Credit Hours: 3
Campus:
Course Delivery: Classroom

BSEN
989

Seminar II

Crosslisted as *AGEN 989*

[LINK \(http://bulletin.unl.edu/courses/BSEN/989\)](http://bulletin.unl.edu/courses/BSEN/989)

All PhD students in biological systems engineering or agricultural engineering must register for 989.

Developing a graduate program, orientation to research, grant and research proposal preparation, experimental design and analysis, manuscript preparation and review, preparations and delivery of technical presentations,

Credit Hours: 1
Campus:
Course Delivery: Classroom

and research management.

BSEN

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/BSEN/999\)](http://bulletin.unl.edu/courses/BSEN/999)

Prereqs:

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

CIVE

422/822

Pollution Prevention: Principles and Practices

Crosslisted as *BSEN 422/822*

[LINK \(http://bulletin.unl.edu/courses/CIVE/422\)](http://bulletin.unl.edu/courses/CIVE/422)

Prereqs:

Permission.

Credit Hours: 3

Course Delivery: Classroom

Introduction to pollution prevention (P2) and waste minimization methods. Practical applications to small businesses and industries. Legislative and historical development of P2 systems analysis, waste estimation, P2 methods, P2 economics, and sources of P2 information.

CIVE

458/858

Groundwater Engineering

Crosslisted as *BSEN 458/858*

[LINK \(http://bulletin.unl.edu/courses/CIVE/458\)](http://bulletin.unl.edu/courses/CIVE/458)

Prereqs:

[CIVE 352 \(http://bulletin.unl.edu/courses/CIVE/352\)](http://bulletin.unl.edu/courses/CIVE/352) or [AGEN 350 \(http://bulletin.unl.edu/courses/AGEN/350\)](http://bulletin.unl.edu/courses/AGEN/350) or [BSEN 350 \(http://bulletin.unl.edu/courses/BSEN/350\)](http://bulletin.unl.edu/courses/BSEN/350) or equivalent.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

Application of engineering principles to the movement of groundwater. Analysis and design of wells, well fields, and artificial recharge. Analysis of pollutant movement.

Ω

Courses for BIME (BIME)

BIME

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/BIME/999\)](http://bulletin.unl.edu/courses/BIME/999)

Prereqs:

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

Ω

Courses for CHME (CHME)

CHME

460/860

Automatic Process Control Laboratory

[LINK \(http://bulletin.unl.edu/courses/CHME/460\)](http://bulletin.unl.edu/courses/CHME/460)

Prereqs:

[CHME 462 \(http://bulletin.unl.edu/courses/CHME/462\)](http://bulletin.unl.edu/courses/CHME/462) or parallel.

Credit Hours: 1

Course Format: Lecture 3, Lab 3

Course Delivery: Classroom

Selected laboratory experiments to demonstrate the theory of the dynamics

and control of chemical processes.

CHME

475/875

Biochemical Separations

[LINK \(http://bulletin.unl.edu/courses/CHME/475\)](http://bulletin.unl.edu/courses/CHME/475)

Prereqs:

[CHME 333 \(http://bulletin.unl.edu/courses/CHME/333\)](http://bulletin.unl.edu/courses/CHME/333) / [833 \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833).

Separation and purification of compounds of biological origin from an analytical perspective. Application of unit operations for these separations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CHME

489/889

Air Pollution, Assessment and Control

[LINK \(http://bulletin.unl.edu/courses/CHME/489\)](http://bulletin.unl.edu/courses/CHME/489)

Prereqs:

Senior standing or permission.

Survey of the present status of the air pollution problem and the application of engineering and scientific principles to its practical and effective coordinated control.

Credit Hours:	3
Course Delivery:	Classroom

CHME

805

Multiple Contact Separation Processes

[LINK \(http://bulletin.unl.edu/courses/CHME/805\)](http://bulletin.unl.edu/courses/CHME/805)

Prereqs:

[CHME 823 \(http://bulletin.unl.edu/courses/CHME/823\)](http://bulletin.unl.edu/courses/CHME/823) and permission

Application of the principles of physical kinetics and the equilibrium stage to separation processes such as absorption, extraction, and distillation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME

815

Advanced Chemical Engineering Analysis

[LINK \(http://bulletin.unl.edu/courses/CHME/815\)](http://bulletin.unl.edu/courses/CHME/815)

Prereqs:

[CHME 833 \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833), [MATH 820 \(http://bulletin.unl.edu/courses/MATH/820\)](http://bulletin.unl.edu/courses/MATH/820) or [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

Application of advanced mathematics to chemical engineering design, with emphasis upon the derivation of differential equations describing physical situations as well as upon the solution of these equations. Design methods for tubular and stirred tank reactors, ion exchange units, pebble heaters, gas absorbers, mixers, etc.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME

823

Chemical Engineering Thermodynamics II

[LINK \(http://bulletin.unl.edu/courses/CHME/823\)](http://bulletin.unl.edu/courses/CHME/823)

Prereqs:

[CHME 223 \(http://bulletin.unl.edu/courses/CHME/223\)](http://bulletin.unl.edu/courses/CHME/223)

This course is a prerequisite for: [CHME 805 \(http://bulletin.unl.edu/courses/CHME/805\)](http://bulletin.unl.edu/courses/CHME/805), [CHME 825 \(http://bulletin.unl.edu/courses/CHME/825\)](http://bulletin.unl.edu/courses/CHME/825), [CHME 834 \(http://bulletin.unl.edu/courses/CHME/834\)](http://bulletin.unl.edu/courses/CHME/834), [CHME 842 \(http://bulletin.unl.edu/courses/CHME/842\)](http://bulletin.unl.edu/courses/CHME/842), [CHME 845 \(http://bulletin.unl.edu/courses/CHME/845\)](http://bulletin.unl.edu/courses/CHME/845), [CHME 935 \(http://bulletin.unl.edu/courses/CHME/935\)](http://bulletin.unl.edu/courses/CHME/935), [CHME 995 \(http://bulletin.unl.edu/courses/CHME/995\)](http://bulletin.unl.edu/courses/CHME/995)

Application to multi-component systems; thermodynamics, phase equilibria,

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CHME
825

Theoretical and Applied Thermodynamics for Chemical Engineers [LINK \(http://bulletin.unl.edu/courses/CHME/825\)](http://bulletin.unl.edu/courses/CHME/825)

Prereqs:

[CHME 823 \(http://bulletin.unl.edu/courses/CHME/823\)](http://bulletin.unl.edu/courses/CHME/823) or [CHEM 982 \(http://bulletin.unl.edu/courses/CHEM/982\)](http://bulletin.unl.edu/courses/CHEM/982), [MATH 820 \(http://bulletin.unl.edu/courses/MATH/820\)](http://bulletin.unl.edu/courses/MATH/820) or [821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) or equivalent [or equivalent \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

Application of classical engineering and chemical thermodynamics to problems in chemical engineering.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
830

Chemical Engineering Laboratory II [LINK \(http://bulletin.unl.edu/courses/CHME/830\)](http://bulletin.unl.edu/courses/CHME/830)

Prereqs:

[CHME 331 \(http://bulletin.unl.edu/courses/CHME/331\)](http://bulletin.unl.edu/courses/CHME/331), [CHME 333 \(http://bulletin.unl.edu/courses/CHME/333\)](http://bulletin.unl.edu/courses/CHME/333); [CHEM 442 \(http://bulletin.unl.edu/courses/CHEM/442\)](http://bulletin.unl.edu/courses/CHEM/442) or parallel

This course is a prerequisite for: [CHME 854 \(http://bulletin.unl.edu/courses/CHME/854\)](http://bulletin.unl.edu/courses/CHME/854)

Selected experiments in chemical engineering. Emphasis on experimental design, interpretation of results, and formal oral and written presentation.

Credit Hours:	4
Course Format:	Lab 4, Lecture 1
Campus:	
Course Delivery:	Classroom

CHME
832

Transport Operations I [LINK \(http://bulletin.unl.edu/courses/CHME/832\)](http://bulletin.unl.edu/courses/CHME/832)

Prereqs:

[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208); a grade of C- or better in [CHME 202 \(http://bulletin.unl.edu/courses/CHME/202\)](http://bulletin.unl.edu/courses/CHME/202)

This course is a prerequisite for: [CHME 833 \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833), [CHME 835 \(http://bulletin.unl.edu/courses/CHME/835\)](http://bulletin.unl.edu/courses/CHME/835)

Mass, momentum, and energy transport phenomena and their applications in chemical engineering.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CHME
833

Transport Operations [LINK \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833)

Prereqs:

[CHME 832 \(http://bulletin.unl.edu/courses/CHME/832\)](http://bulletin.unl.edu/courses/CHME/832)

This course is a prerequisite for: [CHME 815 \(http://bulletin.unl.edu/courses/CHME/815\)](http://bulletin.unl.edu/courses/CHME/815), [CHME 834 \(http://bulletin.unl.edu/courses/CHME/834\)](http://bulletin.unl.edu/courses/CHME/834), [CHME 835 \(http://bulletin.unl.edu/courses/CHME/835\)](http://bulletin.unl.edu/courses/CHME/835), [CHME 862 \(http://bulletin.unl.edu/courses/CHME/862\)](http://bulletin.unl.edu/courses/CHME/862), [CHME 886 \(http://bulletin.unl.edu/courses/CHME/886\)](http://bulletin.unl.edu/courses/CHME/886), [CHME 935 \(http://bulletin.unl.edu/courses/CHME/935\)](http://bulletin.unl.edu/courses/CHME/935), [CHME 995 \(http://bulletin.unl.edu/courses/CHME/995\)](http://bulletin.unl.edu/courses/CHME/995)

Chemical engineering 832 continued.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
834

Diffusional Operations [LINK \(http://bulletin.unl.edu/courses/CHME/834\)](http://bulletin.unl.edu/courses/CHME/834)

Prereqs:

[CHME 823 \(http://bulletin.unl.edu/courses/CHME/823\)](http://bulletin.unl.edu/courses/CHME/823) and [CHME 833](http://bulletin.unl.edu/courses/CHME/833)

Credit Hours:	3
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<http://bulletin.unl.edu/courses/CHME/833>), [MATH 820 \(http://bulletin.unl.edu/courses/MATH/820\)](http://bulletin.unl.edu/courses/MATH/820) or [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

Application of diffusional theory to the design of processing equipment required for absorption, adsorption, leaching, drying, and chemical reactions.

Campus:
Course Delivery: Classroom

CHME 835 Transport Phenomena I

[LINK \(http://bulletin.unl.edu/courses/CHME/835\)](http://bulletin.unl.edu/courses/CHME/835)

CHME
835

Prereqs:
[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821); [CHME 832 \(http://bulletin.unl.edu/courses/CHME/832\)](http://bulletin.unl.edu/courses/CHME/832) and [CHME 833 \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833) or equivalent

This course is a prerequisite for: [CHME 836 \(http://bulletin.unl.edu/courses/CHME/836\)](http://bulletin.unl.edu/courses/CHME/836)

Advanced consideration of molecular and turbulent momentum, energy and mass transport.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom

CHME 836 Transport Phenomena II

[LINK \(http://bulletin.unl.edu/courses/CHME/836\)](http://bulletin.unl.edu/courses/CHME/836)

CHME
836

Prereqs:
[CHME 835 \(http://bulletin.unl.edu/courses/CHME/835\)](http://bulletin.unl.edu/courses/CHME/835).

Continuation of Transport Phenomena I.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom

CHME 842 Chemical Reactor Engineering and Design

[LINK \(http://bulletin.unl.edu/courses/CHME/842\)](http://bulletin.unl.edu/courses/CHME/842)

CHME
842

Prereqs:
[CHME 823 \(http://bulletin.unl.edu/courses/CHME/823\)](http://bulletin.unl.edu/courses/CHME/823) or permission

This course is a prerequisite for: [CHME 845 \(http://bulletin.unl.edu/courses/CHME/845\)](http://bulletin.unl.edu/courses/CHME/845), [CHME 847 \(http://bulletin.unl.edu/courses/CHME/847\)](http://bulletin.unl.edu/courses/CHME/847), [CHME 886 \(http://bulletin.unl.edu/courses/CHME/886\)](http://bulletin.unl.edu/courses/CHME/886)

Basic principles of chemical kinetics are coupled with models descriptive of rates of energy and mass transfer for the analysis and design of reactor systems.

Credit Hours: 3
Campus:
Course Delivery: Classroom

CHME 845 Advanced Chemical Engineering Kinetics

[LINK \(http://bulletin.unl.edu/courses/CHME/845\)](http://bulletin.unl.edu/courses/CHME/845)

CHME
845

Prereqs:
[CHME *815](http://bulletin.unl.edu/courses/CHME/815), [CHME 823 \(http://bulletin.unl.edu/courses/CHME/823\)](http://bulletin.unl.edu/courses/CHME/823), [CHME *835, CHME 842 \(http://bulletin.unl.edu/courses/CHME/842\)](http://bulletin.unl.edu/courses/CHME/842)

Kinetics of chemical reactions in several categories of reactors for interpretation of experimental data and design of equipment.

Credit Hours: 3
Campus:
Course Delivery: Classroom

CHME 847 Principles and Applications of Catalysis in Reaction Engineering

[LINK \(http://bulletin.unl.edu/courses/CHME/847\)](http://bulletin.unl.edu/courses/CHME/847)

CHME
847

Prereqs:
[CHME 842 \(http://bulletin.unl.edu/courses/CHME/842\)](http://bulletin.unl.edu/courses/CHME/842) or equivalent

Kinetics of chemical reactions in several categories of reactors for

Credit Hours: 3
Campus:
Course Delivery: Classroom

interpretation of experimental data and design of equipment.

CHME
852

Chemical Engineering Process Economics and Optimization

[LINK \(http://bulletin.unl.edu/courses/CHME/852\)](http://bulletin.unl.edu/courses/CHME/852)

Credit toward the degree may be earned in only one of: [IMSE 206](http://bulletin.unl.edu/courses/IMSE/206) (<http://bulletin.unl.edu/courses/IMSE/206>) or [CHME 452](http://bulletin.unl.edu/courses/CHME/452) (<http://bulletin.unl.edu/courses/CHME/452>)/[852](http://bulletin.unl.edu/courses/CHME/852) (<http://bulletin.unl.edu/courses/CHME/852>).

Criteria of chemical process engineering economics: cost and asset accounting, time value of money, profitability, alternative investments, minimum attractive rate of return, sensitivity and risk analysis. Process optimization in: plant operations, cyclic operations, unit operations, using successive calculations, linear programming and dynamic programming.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
853

Chemical Engineering Process Design

[LINK \(http://bulletin.unl.edu/courses/CHME/853\)](http://bulletin.unl.edu/courses/CHME/853)

Prereqs:
[CHME 331 \(http://bulletin.unl.edu/courses/CHME/331\)](http://bulletin.unl.edu/courses/CHME/331), [CHME 333 \(http://bulletin.unl.edu/courses/CHME/333\)](http://bulletin.unl.edu/courses/CHME/333), [CHME 442 \(http://bulletin.unl.edu/courses/CHME/442\)](http://bulletin.unl.edu/courses/CHME/442), and [CHME 452 \(http://bulletin.unl.edu/courses/CHME/452\)](http://bulletin.unl.edu/courses/CHME/452)

Design and evaluation of chemical engineering process applications.

Credit Hours:	3
Course Format:	Lab 4, Lecture 1
Campus:	
Course Delivery:	Classroom

CHME
854

Chemical Process Engineering

[LINK \(http://bulletin.unl.edu/courses/CHME/854\)](http://bulletin.unl.edu/courses/CHME/854)

Prereqs:
[CHME 830 \(http://bulletin.unl.edu/courses/CHME/830\)](http://bulletin.unl.edu/courses/CHME/830); [CSCE 855 \(http://bulletin.unl.edu/courses/CSCE/855\)](http://bulletin.unl.edu/courses/CSCE/855) or [ENGM 880 \(http://bulletin.unl.edu/courses/ENGM/880\)](http://bulletin.unl.edu/courses/ENGM/880) recommended

Practical and theoretical aspects of chemical process analysis, simulation, and synthesis. Case studies used to illustrate principles. Use of the digital computer as a tool of the process engineer is stressed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
862

Automatic Process Control

[LINK \(http://bulletin.unl.edu/courses/CHME/862\)](http://bulletin.unl.edu/courses/CHME/862)

Prereqs:
[CHME 833 \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833), [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

This course is a prerequisite for: [CHME 965 \(http://bulletin.unl.edu/courses/CHME/965\)](http://bulletin.unl.edu/courses/CHME/965)

Analysis and design of automatic control systems. Dynamic responses of measuring instruments, control elements, and process equipment included in control loops.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
873

Biochemical Engineering

[LINK \(http://bulletin.unl.edu/courses/CHME/873\)](http://bulletin.unl.edu/courses/CHME/873)

Prereqs:
[CHEM 262 \(http://bulletin.unl.edu/courses/CHEM/262\)](http://bulletin.unl.edu/courses/CHEM/262); [CHME 323 \(http://bulletin.unl.edu/courses/CHME/323\)](http://bulletin.unl.edu/courses/CHME/323) and [CHME 333 \(http://bulletin.unl.edu/courses/CHME/333\)](http://bulletin.unl.edu/courses/CHME/333)

This course is a prerequisite for: [CHME 874 \(http://bulletin.unl.edu/courses/CHME/874\)](http://bulletin.unl.edu/courses/CHME/874)

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Dynamics of microbial growth and death. Engineering processes for microbiological synthesis of cellular material and industrial products, with emphasis on food and pharmaceutical production by bacteria and fungi.

CHME
874 **Advanced Biochemical Engineering**

[LINK \(http://bulletin.unl.edu/courses/CHME/874\)](http://bulletin.unl.edu/courses/CHME/874)

Prereqs:
[CHME 873 \(http://bulletin.unl.edu/courses/CHME/873\)](http://bulletin.unl.edu/courses/CHME/873) or permission

Recent theoretical and technical developments in biochemical engineering.

Credit Hours: 2-6
Campus:
Course Delivery: Classroom

CHME
882 **Polymers**

[LINK \(http://bulletin.unl.edu/courses/CHME/882\)](http://bulletin.unl.edu/courses/CHME/882)

Prereqs:
[CHEM 262 \(http://bulletin.unl.edu/courses/CHEM/262\)](http://bulletin.unl.edu/courses/CHEM/262) and [CHEM 264 \(http://bulletin.unl.edu/courses/CHEM/264\)](http://bulletin.unl.edu/courses/CHEM/264)

Introduction to polymer technology stressing polymerization kinetics, methods of resin manufacture, and applications.

Credit Hours: 3
Campus:
Course Delivery: Classroom

CHME
886 **Electrochemical Engineering**

[LINK \(http://bulletin.unl.edu/courses/CHME/886\)](http://bulletin.unl.edu/courses/CHME/886)

Prereqs:
[CHME 312 \(http://bulletin.unl.edu/courses/CHME/312\)](http://bulletin.unl.edu/courses/CHME/312), [CHME 833 \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833) and [CHME 842 \(http://bulletin.unl.edu/courses/CHME/842\)](http://bulletin.unl.edu/courses/CHME/842) or permission

Thermodynamic and kinetic principles of electrochemistry are applied to the design and analysis of electrochemical processes, including chemical production, batteries, fuel cells and corrosion prevention.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

CHME
896 **Advanced Topics in Chemical Engineering Computation**

[LINK \(http://bulletin.unl.edu/courses/CHME/896\)](http://bulletin.unl.edu/courses/CHME/896)

Prereqs:
[CHME 312 \(http://bulletin.unl.edu/courses/CHME/312\)](http://bulletin.unl.edu/courses/CHME/312) or [CSCE 455 \(http://bulletin.unl.edu/courses/CSCE/455/855\)](http://bulletin.unl.edu/courses/CSCE/455/855) or [CSCE 855 \(http://bulletin.unl.edu/courses/CSCE/855\)](http://bulletin.unl.edu/courses/CSCE/855) or [ENGM 480 \(http://bulletin.unl.edu/courses/ENGM/480/880\)](http://bulletin.unl.edu/courses/ENGM/480/880) or [ENGM 880 \(http://bulletin.unl.edu/courses/ENGM/880\)](http://bulletin.unl.edu/courses/ENGM/880), and permission

Intensive treatment of special topics of current research interest in such areas as steady-state and dynamic process simulation, design optimization, chemical process synthesis, computer-aided product research, stochastic optimization, and numerical methods applied to transport problems.

Credit Hours: 1-6
Max credits per degree: 6
Course Format: Lecture
Campus:
Course Delivery: Classroom

CHME
899 **Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/CHME/899\)](http://bulletin.unl.edu/courses/CHME/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10
Campus:
Course Delivery: Classroom

CHME
900

Seminar in Chemical Engineering

[LINK \(http://bulletin.unl.edu/courses/CHME/900\)](http://bulletin.unl.edu/courses/CHME/900)

Discussion of research projects and review of current literature in chemical engineering.

Credit Hours:	1
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CHME
915

Systems Analysis in Chemical Engineering

[LINK \(http://bulletin.unl.edu/courses/CHME/915\)](http://bulletin.unl.edu/courses/CHME/915)

Prereqs:
[CHME 496 \(http://bulletin.unl.edu/courses/CHME/496\)](http://bulletin.unl.edu/courses/CHME/496) / [896 \(http://bulletin.unl.edu/courses/CHME/896\)](http://bulletin.unl.edu/courses/CHME/896)

Computational methods of process optimization. Techniques of process systems analysis and their application in digital simulators. Process simulation in the presence of uncertainty.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
925

Transport Properties

[LINK \(http://bulletin.unl.edu/courses/CHME/925\)](http://bulletin.unl.edu/courses/CHME/925)

Prereqs:
[CHME *835, CHEM 882 \(http://bulletin.unl.edu/courses/CHEM/882\)](http://bulletin.unl.edu/courses/CHEM/882)

Application of the kinetic theories of gases, liquids, and solids to the prediction and correlation of transport properties.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
935

Membrane Principles and Processes

[LINK \(http://bulletin.unl.edu/courses/CHME/935\)](http://bulletin.unl.edu/courses/CHME/935)

Prereqs:
[CHME 823 \(http://bulletin.unl.edu/courses/CHME/823\)](http://bulletin.unl.edu/courses/CHME/823) and [CHME 833 \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833)

Fundamental principles relating to membrane effects, the structure and properties of membranes, and applications in electrodialysis, ultrafiltration, diffusion control, artificial organs, and other processes.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
965

Advanced Process Dynamics and Control

[LINK \(http://bulletin.unl.edu/courses/CHME/965\)](http://bulletin.unl.edu/courses/CHME/965)

Prereqs:
[CHME 862 \(http://bulletin.unl.edu/courses/CHME/862\)](http://bulletin.unl.edu/courses/CHME/862) or permission

Transient behavior of typical industrial processes and systems—heat exchangers, dryers, distillation columns, absorbers, chemical reactors, etc.—emphasis on the control of such processes. Introduction to systems engineering.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CHME
995

Special Problems in Chemical Engineering

[LINK \(http://bulletin.unl.edu/courses/CHME/995\)](http://bulletin.unl.edu/courses/CHME/995)

Prereqs:
[CHME 823 \(http://bulletin.unl.edu/courses/CHME/823\)](http://bulletin.unl.edu/courses/CHME/823), [CHME 833 \(http://bulletin.unl.edu/courses/CHME/833\)](http://bulletin.unl.edu/courses/CHME/833) or equivalent

Credit Hours:	1-9
Campus:	
Course Delivery:	Classroom

Prereqs:

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

[Q](#)

Courses for CIVE (CIVE)

Water Quality Strategy

[LINK \(http://bulletin.unl.edu/courses/AGRO/475\)](http://bulletin.unl.edu/courses/AGRO/475)

Crosslisted as *POLS 475/875, SOCI 475/875, GEOL 475/875, CIVE 475/875, SOIL 475, NRES 475/875, WATS 475, MSYM 475/875, CRPL 475/875*

Prereqs:

Senior standing or permission.

Capstone course.

Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating present strategies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

Nonpoint Source Pollution Control Engineering

[LINK \(http://bulletin.unl.edu/courses/BSEN/455\)](http://bulletin.unl.edu/courses/BSEN/455)

Crosslisted as *CIVE 455/855*

Prereqs:

[BSEN 326 \(http://bulletin.unl.edu/courses/BSEN/326\)](http://bulletin.unl.edu/courses/BSEN/326) or [CIVE 326 \(http://bulletin.unl.edu/courses/CIVE/326\)](http://bulletin.unl.edu/courses/CIVE/326); [BSEN 350 \(http://bulletin.unl.edu/courses/BSEN/350\)](http://bulletin.unl.edu/courses/BSEN/350) or [AGEN 350 \(http://bulletin.unl.edu/courses/AGEN/350\)](http://bulletin.unl.edu/courses/AGEN/350) or [CIVE 352 \(http://bulletin.unl.edu/courses/CIVE/352\)](http://bulletin.unl.edu/courses/CIVE/352).

Identification, characterization, and assessment of nonpoint source pollutants; transport mechanisms and remediation technologies; design methodologies and case studies.

Credit Hours:	3
Course Delivery:	Classroom

Hydrology

[LINK \(http://bulletin.unl.edu/courses/CIVE/353\)](http://bulletin.unl.edu/courses/CIVE/353)

Crosslisted as *NRES 853*

Prereqs:

[MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106), not available for credit for engineering students.

Introduction to the principles of hydrology, with emphasis on the components of the hydrologic cycle: precipitation, evaporation, groundwater flow, surface runoff, infiltration, precipitation runoff relationships.

Credit Hours:	3
Course Delivery:	Classroom

Flow Systems Design

[LINK \(http://bulletin.unl.edu/courses/CIVE/419\)](http://bulletin.unl.edu/courses/CIVE/419)

Prereqs:

[CIVE 326 \(http://bulletin.unl.edu/courses/CIVE/326\)](http://bulletin.unl.edu/courses/CIVE/326) or [CIVE 327 \(http://bulletin.unl.edu/courses/CIVE/327\)](http://bulletin.unl.edu/courses/CIVE/327); parallel [CIVE 352 \(http://bulletin.unl.edu/courses/CIVE/352\)](http://bulletin.unl.edu/courses/CIVE/352).

Application of hydraulic principles to the design of water distribution

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

systems, wastewater and stormwater collection systems, channelized flow systems, and treatment facilities.

CIVE Pollution Prevention: Principles and Practices

422/822

Crosslisted as *BSEN 422/822*

[LINK \(http://bulletin.unl.edu/courses/CIVE/422\)](http://bulletin.unl.edu/courses/CIVE/422)

Prereqs:
Permission.

Introduction to pollution prevention (P2) and waste minimization methods. Practical applications to small businesses and industries. Legislative and historical development of P2 systems analysis, waste estimation, P2 methods, P2 economics, and sources of P2 information.

Credit Hours:	3
Course Delivery:	Classroom

CIVE Small Treatment Systems

431/831

[LINK \(http://bulletin.unl.edu/courses/CIVE/431\)](http://bulletin.unl.edu/courses/CIVE/431)

Prereqs:
Parallel CIVE/*BSEN 425* (<http://bulletin.unl.edu/courses/BSEN/425>).

Design of small and decentralized waste water management systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CIVE Bioremediation of Hazardous Wastes

432/832

[LINK \(http://bulletin.unl.edu/courses/CIVE/432\)](http://bulletin.unl.edu/courses/CIVE/432)

Prereqs:
CIVE/*BSEN 326* (<http://bulletin.unl.edu/courses/BSEN/326>) and CIVE/*MECH 310* (<http://bulletin.unl.edu/courses/MECH/310>).

Principles, applications, and limitations of bioremediation of hazardous wastes and design of some bioremediation systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CIVE Introduction to Bridge Engineering

439/839

[LINK \(http://bulletin.unl.edu/courses/CIVE/439\)](http://bulletin.unl.edu/courses/CIVE/439)

Prereqs:
CIVE 440 (<http://bulletin.unl.edu/courses/CIVE/440>)/840 (<http://bulletin.unl.edu/courses/CIVE/840>) or 441 (<http://bulletin.unl.edu/courses/CIVE/441>).

Structural types, bridge loads, design of bridge slabs, steel girder bridges, and prestressed concrete girder bridges. Evaluation of existing bridges. Problems related to fatigue and corrosion. Field testing of bridges.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CIVE Reinforced Concrete Design I

440/840

[LINK \(http://bulletin.unl.edu/courses/CIVE/440\)](http://bulletin.unl.edu/courses/CIVE/440)

Prereqs:
CIVE 341 (<http://bulletin.unl.edu/courses/CIVE/341>).

This course is a prerequisite for: [CIVE 439 \(http://bulletin.unl.edu/courses/CIVE/439\)](http://bulletin.unl.edu/courses/CIVE/439), [CIVE 844 \(http://bulletin.unl.edu/courses/CIVE/844\)](http://bulletin.unl.edu/courses/CIVE/844), [CIVE 447 \(http://bulletin.unl.edu/courses/CIVE/447\)](http://bulletin.unl.edu/courses/CIVE/447), [CIVE 849 \(http://bulletin.unl.edu/courses/CIVE/849\)](http://bulletin.unl.edu/courses/CIVE/849), [CIVE 850 \(http://bulletin.unl.edu/courses/CIVE/850\)](http://bulletin.unl.edu/courses/CIVE/850), [AREN 851 \(http://bulletin.unl.edu/courses/AREN/851\)](http://bulletin.unl.edu/courses/AREN/851), [CONE 981 \(http://bulletin.unl.edu/courses/CONE/981\)](http://bulletin.unl.edu/courses/CONE/981)

Introduction to the design concepts of reinforced concrete building

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

components. The design of flexural and compression members, simple walls, foundations, and floor systems using the latest American Concrete Institute (ACI) design requirements.

CIVE

Steel Design II

LINK (<http://bulletin.unl.edu/courses/CIVE/446>)

446/846

Prereqs:

[CIVE 441 \(http://bulletin.unl.edu/courses/CIVE/441\)](http://bulletin.unl.edu/courses/CIVE/441).

This course is a prerequisite for: [CIVE 940 \(http://bulletin.unl.edu/courses/CIVE/940\)](http://bulletin.unl.edu/courses/CIVE/940), [CIVE 949 \(http://bulletin.unl.edu/courses/CIVE/949\)](http://bulletin.unl.edu/courses/CIVE/949)

[CIVE 446 \(http://bulletin.unl.edu/courses/CIVE/446\)](http://bulletin.unl.edu/courses/CIVE/446)/[846 \(http://bulletin.unl.edu/courses/CIVE/846\)](http://bulletin.unl.edu/courses/CIVE/846) is a continuation of the topics covered in [CIVE 441 \(http://bulletin.unl.edu/courses/CIVE/441\)](http://bulletin.unl.edu/courses/CIVE/441).

The principles and procedures used in design of steel buildings, design of plate girders, design and analysis of building systems, design and analysis of composite steel-concrete building systems, innovative building systems, introduction to seismic design of steel buildings. Plate buckling, beam, column and beam-column design, and frame stability. Introduction to connection design.

Credit Hours:	3
Course Delivery:	Classroom

CIVE

Reinforced Concrete Design II

LINK (<http://bulletin.unl.edu/courses/CIVE/447>)

447/847

Prereqs:

[CIVE 440 \(http://bulletin.unl.edu/courses/CIVE/440\)](http://bulletin.unl.edu/courses/CIVE/440)/[840 \(http://bulletin.unl.edu/courses/CIVE/840\)](http://bulletin.unl.edu/courses/CIVE/840).

This course is a prerequisite for: [CIVE 950 \(http://bulletin.unl.edu/courses/CIVE/950\)](http://bulletin.unl.edu/courses/CIVE/950)

[CIVE 447 \(http://bulletin.unl.edu/courses/CIVE/447\)](http://bulletin.unl.edu/courses/CIVE/447)/[847 \(http://bulletin.unl.edu/courses/CIVE/847\)](http://bulletin.unl.edu/courses/CIVE/847) is a continuation of topics covered in [CIVE 440 \(http://bulletin.unl.edu/courses/CIVE/440\)](http://bulletin.unl.edu/courses/CIVE/440)/[840 \(http://bulletin.unl.edu/courses/CIVE/840\)](http://bulletin.unl.edu/courses/CIVE/840).

Shear friction theory, strut-and-tie modeling, anchorage, deflection, slender and bi-axially loaded members, torsion, two-way action and punching shear, and footing design. Excel spreadsheets are developed and used for various design tasks.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CIVE

Groundwater Engineering

LINK (<http://bulletin.unl.edu/courses/CIVE/458>)

458/858

Crosslisted as *BSEN 458/858*

Prereqs:

[CIVE 352 \(http://bulletin.unl.edu/courses/CIVE/352\)](http://bulletin.unl.edu/courses/CIVE/352) or [AGEN 350 \(http://bulletin.unl.edu/courses/AGEN/350\)](http://bulletin.unl.edu/courses/AGEN/350) or [BSEN 350 \(http://bulletin.unl.edu/courses/BSEN/350\)](http://bulletin.unl.edu/courses/BSEN/350) or equivalent.

Application of engineering principles to the movement of groundwater. Analysis and design of wells, well fields, and artificial recharge. Analysis of pollutant movement.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CIVE

Reliability of Structures

LINK (<http://bulletin.unl.edu/courses/CIVE/459>)

459/859

Prereqs:

[CIVE 341 \(http://bulletin.unl.edu/courses/CIVE/341\)](http://bulletin.unl.edu/courses/CIVE/341).

Fundamental concepts related to structural reliability, safety measures, load models, resistance models, system reliability, optimum safety levels, and optimization of design codes.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CIVE Highway Design**462/862**[LINK \(http://bulletin.unl.edu/courses/CIVE/462\)](http://bulletin.unl.edu/courses/CIVE/462)**Prereqs:**
[CIVE 361 \(http://bulletin.unl.edu/courses/CIVE/361\)](http://bulletin.unl.edu/courses/CIVE/361).This course is a prerequisite for: [CIVE 865 \(http://bulletin.unl.edu/courses/CIVE/865\)](http://bulletin.unl.edu/courses/CIVE/865); [CIVE 469 \(http://bulletin.unl.edu/courses/CIVE/469\)](http://bulletin.unl.edu/courses/CIVE/469)

Design of roadways, intersections, interchanges, parking facilities, and land development site access and circulation. Emphasis on design projects.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CIVE Traffic Engineering**463/863**[LINK \(http://bulletin.unl.edu/courses/CIVE/463\)](http://bulletin.unl.edu/courses/CIVE/463)**Prereqs:**
[CIVE 361 \(http://bulletin.unl.edu/courses/CIVE/361\)](http://bulletin.unl.edu/courses/CIVE/361).This course is a prerequisite for: [CIVE 866 \(http://bulletin.unl.edu/courses/CIVE/866\)](http://bulletin.unl.edu/courses/CIVE/866)[CIVE 463 \(http://bulletin.unl.edu/courses/CIVE/463/863\)](http://bulletin.unl.edu/courses/CIVE/463/863)
(http://bulletin.unl.edu/courses/CIVE/863) emphasizes design projects.

Design of signalized intersections, arterial street and network signal systems, and freeway control systems.

Credit Hours:	3
Course Delivery:	Classroom

CIVE Airport Planning and Design**468/868**[LINK \(http://bulletin.unl.edu/courses/CIVE/468\)](http://bulletin.unl.edu/courses/CIVE/468)**Prereqs:**
[CIVE 361 \(http://bulletin.unl.edu/courses/CIVE/361\)](http://bulletin.unl.edu/courses/CIVE/361).

Planning and design of general aviation and air carrier airports. Land-side components include vehicle ground-access systems, vehicle circulation parking, and terminal buildings. Air-side components include aircraft apron-gate area, taxi-way system, runway system, and air traffic control facilities and airspace. Emphasis on design projects.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CIVE Computer-Aided Interchange Design**469/869**[LINK \(http://bulletin.unl.edu/courses/CIVE/469\)](http://bulletin.unl.edu/courses/CIVE/469)**Prereqs:**
[CIVE 462 \(http://bulletin.unl.edu/courses/CIVE/462\)/862](http://bulletin.unl.edu/courses/CIVE/462/862)
 [\(http://bulletin.unl.edu/courses/CIVE/862\) or equivalent.](http://bulletin.unl.edu/courses/CIVE/862)[CIVE 469 \(http://bulletin.unl.edu/courses/CIVE/469\)](http://bulletin.unl.edu/courses/CIVE/469) requires the development of an interchange design project using graphical and civil engineering software.

Principles of high-speed traffic operations, safety, and decision making related to critical design parameters used for optimal interchange geometric designs.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

CIVE Bituminous Materials and Mixtures Laboratory**471/871**[LINK \(http://bulletin.unl.edu/courses/CIVE/471\)](http://bulletin.unl.edu/courses/CIVE/471)**Prereqs:**
[CIVE 378 \(http://bulletin.unl.edu/courses/CIVE/378\) or equivalent.](http://bulletin.unl.edu/courses/CIVE/378)

Portland Cement and Asphalt Concrete Laboratory. Laboratory and field

Credit Hours:	1
Course Format:	Lab
Course Delivery:	Classroom

procedures used to obtain portland cement and asphalt concretes for engineered construction.

CIVE **Pavement Design and Evaluation**

472/872

[LINK \(http://bulletin.unl.edu/courses/CIVE/472\)](http://bulletin.unl.edu/courses/CIVE/472)

Prereqs:
[CIVE 334 \(http://bulletin.unl.edu/courses/CIVE/334\)](http://bulletin.unl.edu/courses/CIVE/334).

Thickness design of flexible and rigid pavement systems for highways and airports; design of paving materials; evaluation and strengthening of existing pavements.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CIVE **Special Topics in Civil Engineering**

498/898

[LINK \(http://bulletin.unl.edu/courses/CIVE/498\)](http://bulletin.unl.edu/courses/CIVE/498)

Prereqs:
Permission.

Special problems, topics, or research in civil engineering.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lecture
Course Delivery:	Classroom

CIVE **Civil Engineering Systems**

801

[LINK \(http://bulletin.unl.edu/courses/CIVE/801\)](http://bulletin.unl.edu/courses/CIVE/801)

Prereqs:
[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

Systems analysis approach to civil engineering problems. Systems model elements and principles of systems theory with applications to civil engineering.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE **Hazardous Waste Management and Treatment**

821

[LINK \(http://bulletin.unl.edu/courses/CIVE/821\)](http://bulletin.unl.edu/courses/CIVE/821)

Prereqs:
[CIVE/BSEN 326 \(http://bulletin.unl.edu/courses/BSEN/326\)](http://bulletin.unl.edu/courses/BSEN/326) or permission

The US hazardous waste management system and state and federal hazardous waste regulations. Chemical characteristics or hazardous waste and unit operations and processes used for treatment of soil, water and air.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE **Physical and Chemical Treatment Processes in Environmental Engineering**

823

[LINK \(http://bulletin.unl.edu/courses/CIVE/823\)](http://bulletin.unl.edu/courses/CIVE/823)

Prereqs:
[CIVE 326 \(http://bulletin.unl.edu/courses/CIVE/326\)](http://bulletin.unl.edu/courses/CIVE/326), [CIVE 425 \(http://bulletin.unl.edu/courses/CIVE/425\)](http://bulletin.unl.edu/courses/CIVE/425) or permission

Evaluation and analysis of physical and chemical unit operations and processes applied to the treatment of water, wastewater, and hazardous wastes.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE **Solid Waste Management Engineering**

824

[LINK \(http://bulletin.unl.edu/courses/CIVE/824\)](http://bulletin.unl.edu/courses/CIVE/824)

Prereqs:
[CIVE 326 \(http://bulletin.unl.edu/courses/CIVE/326\)](http://bulletin.unl.edu/courses/CIVE/326), [CIVE 334 \(http://bulletin.unl.edu/courses/CIVE/334\)](http://bulletin.unl.edu/courses/CIVE/334)

Planning, design, and operation of solid waste collection, processing, treatment, and disposal systems including materials, resources and energy recovery systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE 826 Design of Water Treatment Facilities

[LINK \(http://bulletin.unl.edu/courses/CIVE/826\)](http://bulletin.unl.edu/courses/CIVE/826)

Prereqs:
[CIVE 425 \(http://bulletin.unl.edu/courses/CIVE/425\)](http://bulletin.unl.edu/courses/CIVE/425) or permission

Analysis of water supplies and design of water treatment and distribution systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE 827 Design of Wastewater Treatment and Disposal Facilities

[LINK \(http://bulletin.unl.edu/courses/CIVE/827\)](http://bulletin.unl.edu/courses/CIVE/827)

Prereqs:
[CIVE 425 \(http://bulletin.unl.edu/courses/CIVE/425\)](http://bulletin.unl.edu/courses/CIVE/425) or permission

Analysis of systems for wastewater treatment and disposal.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE 828 Quantitative Methods in Environmental Engineering

[LINK \(http://bulletin.unl.edu/courses/CIVE/828\)](http://bulletin.unl.edu/courses/CIVE/828)

Prereqs:
[CIVE 326 \(http://bulletin.unl.edu/courses/CIVE/326\)](http://bulletin.unl.edu/courses/CIVE/326) or equivalent

Applications of chemistry, chemical processes, and biological processes in water and wastewater treatment. Laboratory methods used in environmental engineering. Basic water quality parameters, pathogen detection methods, and treatment of water/wastewater samples. QA/QC methods.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

CIVE 829 Biological Waste Treatment

[LINK \(http://bulletin.unl.edu/courses/CIVE/829\)](http://bulletin.unl.edu/courses/CIVE/829)

Prereqs:
[CIVE 326 \(http://bulletin.unl.edu/courses/CIVE/326\)](http://bulletin.unl.edu/courses/CIVE/326) or equivalent

This course is a prerequisite for: [CIVE 927 \(http://bulletin.unl.edu/courses/CIVE/927\)](http://bulletin.unl.edu/courses/CIVE/927), [CIVE 928 \(http://bulletin.unl.edu/courses/CIVE/928\)](http://bulletin.unl.edu/courses/CIVE/928)

Principles of biological processes and their application in the design of waste treatment systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE 830 Fundamentals of Water Quality Modeling

[LINK \(http://bulletin.unl.edu/courses/CIVE/830\)](http://bulletin.unl.edu/courses/CIVE/830)

Prereqs:
[CIVE 326 \(http://bulletin.unl.edu/courses/CIVE/326\)](http://bulletin.unl.edu/courses/CIVE/326)

This course is a prerequisite for: [CIVE 926 \(http://bulletin.unl.edu/courses/CIVE/926\)](http://bulletin.unl.edu/courses/CIVE/926)

Water quality and the effects of various water pollutants on the aquatic environment; modeling of water quality variables.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE

834**Soil Mechanics II**[LINK \(http://bulletin.unl.edu/courses/CIVE/834\)](http://bulletin.unl.edu/courses/CIVE/834)**Prereqs:**[CIVE 334 \(http://bulletin.unl.edu/courses/CIVE/334\)](http://bulletin.unl.edu/courses/CIVE/334)

This course is a prerequisite for: [CIVE 835 \(http://bulletin.unl.edu/courses/CIVE/835\)](http://bulletin.unl.edu/courses/CIVE/835); [CIVE 934 \(http://bulletin.unl.edu/courses/CIVE/934\)](http://bulletin.unl.edu/courses/CIVE/934); [CIVE 937 \(http://bulletin.unl.edu/courses/CIVE/937\)](http://bulletin.unl.edu/courses/CIVE/937)

(Optional lab [CIVE 834L \(http://bulletin.unl.edu/courses/CIVE/834L\)](http://bulletin.unl.edu/courses/CIVE/834L) 1 cr)
Application of the effective stress principle to shear strength of cohesive soil; analysis of stability of slopes. Development of continuum relationships for soil; solutions for stresses and displacements for elastic continuum. Solution of the consolidation equation for various initial and boundary conditions.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE

834L**Soil Mechanics II Lab**[LINK \(http://bulletin.unl.edu/courses/CIVE/834L\)](http://bulletin.unl.edu/courses/CIVE/834L)**Prereqs:**[CIVE 334 \(http://bulletin.unl.edu/courses/CIVE/334\)](http://bulletin.unl.edu/courses/CIVE/334)

Determination of shear strength, deformation characteristics, permeability, and custom soil testing protocols to characterize soil behavior as part of slope stability analysis and design, solid waste containment, and finite element modeling.

Credit Hours:	1
Course Format:	Lab 1
Campus:	
Course Delivery:	Classroom

CIVE

835**Experimental Soil Mechanics**[LINK \(http://bulletin.unl.edu/courses/CIVE/835\)](http://bulletin.unl.edu/courses/CIVE/835)**Prereqs:**[CIVE 834 \(http://bulletin.unl.edu/courses/CIVE/834\)](http://bulletin.unl.edu/courses/CIVE/834) or permission

Advanced soil testing procedures including consolidated undrained triaxial tests with pore pressure measurements; determination of pore pressure parameters A and B; back pressure confined compression; triaxial loading along various stress paths to failure.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

CIVE

836**Foundation Engineering**[LINK \(http://bulletin.unl.edu/courses/CIVE/836\)](http://bulletin.unl.edu/courses/CIVE/836)

This course is a prerequisite for: [CIVE 936 \(http://bulletin.unl.edu/courses/CIVE/936\)](http://bulletin.unl.edu/courses/CIVE/936); [CIVE 937 \(http://bulletin.unl.edu/courses/CIVE/937\)](http://bulletin.unl.edu/courses/CIVE/937)

(Optional lab [CIVE 836L \(http://bulletin.unl.edu/courses/CIVE/836L\)](http://bulletin.unl.edu/courses/CIVE/836L) 1 cr)

Subsoil exploration and interpretation; selection of foundation systems; determination of allowable bearing capacity and settlement; design of deep foundations; pile driving analysis; control of groundwater.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE

836L**Foundation Engineering Lab**[LINK \(http://bulletin.unl.edu/courses/CIVE/836L\)](http://bulletin.unl.edu/courses/CIVE/836L)**Prereqs:**[CIVE 334 \(http://bulletin.unl.edu/courses/CIVE/334\)](http://bulletin.unl.edu/courses/CIVE/334)

Determination of shear strength, consolidation characteristics, and custom soil testing protocols to characterize soil behavior as part of foundation analysis and design.

Credit Hours:	1
Course Format:	Lab 1
Campus:	
Course Delivery:	Classroom

CIVE

842**Structural Dynamics**[LINK \(http://bulletin.unl.edu/courses/CIVE/842\)](http://bulletin.unl.edu/courses/CIVE/842)**Prereqs:**[CIVE 341 \(http://bulletin.unl.edu/courses/CIVE/341\)](http://bulletin.unl.edu/courses/CIVE/341)This course is a prerequisite for: [CIVE 948 \(http://bulletin.unl.edu/courses/CIVE/948\)](http://bulletin.unl.edu/courses/CIVE/948)

Dynamic behavior of civil engineering structures. Free and forced vibrations of multi degree-of-freedom systems. Response of continuous beam and frames. Elasto-plastic behavior. Dynamic loads on bridges. Analysis and design considerations for buildings and bridges subjected to seismic loadings. Application of computer-aided numerical procedures.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE

844**Structural Design and Planning**[LINK \(http://bulletin.unl.edu/courses/CIVE/844\)](http://bulletin.unl.edu/courses/CIVE/844)**Prereqs:**[CIVE 440 \(http://bulletin.unl.edu/courses/CIVE/440\)](http://bulletin.unl.edu/courses/CIVE/440) and [CIVE 441 \(http://bulletin.unl.edu/courses/CIVE/441\)](http://bulletin.unl.edu/courses/CIVE/441)*CIVE 844 (http://bulletin.unl.edu/courses/CIVE/844) will not count toward a graduate degree in CIVE.*

Principles of design of steel and reinforced concrete structural building systems, planning of building vertical and horizontal load resisting systems, and bridge systems. Several design projects involve indeterminate analysis and design concepts for both steel and reinforced concrete.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

CIVE

845**Advanced Structural Analysis**[LINK \(http://bulletin.unl.edu/courses/CIVE/845\)](http://bulletin.unl.edu/courses/CIVE/845)**Prereqs:**[CIVE 443 \(http://bulletin.unl.edu/courses/CIVE/443\)](http://bulletin.unl.edu/courses/CIVE/443)This course is a prerequisite for: [CIVE 944 \(http://bulletin.unl.edu/courses/CIVE/944\)](http://bulletin.unl.edu/courses/CIVE/944), [CIVE 945 \(http://bulletin.unl.edu/courses/CIVE/945\)](http://bulletin.unl.edu/courses/CIVE/945)

Computation of stress resultants in statically indeterminate structures including beams, planar and three-dimensional frames and trusses, using matrix formulations (finite element method). Shearing and axial deformations in addition to the usual flexural deformations. Effects of temperature and pre-strain, support displacements, elastic supports, and axial-flexural interaction.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE

849**Reinforced Masonry Design**[LINK \(http://bulletin.unl.edu/courses/CIVE/849\)](http://bulletin.unl.edu/courses/CIVE/849)**Prereqs:**[CIVE 440 \(http://bulletin.unl.edu/courses/CIVE/440\)](http://bulletin.unl.edu/courses/CIVE/440) or permission

Analysis and design of reinforced masonry structures. Clay and concrete materials. Flexure, shear, bond, and axial force. Foundations, columns, walls. Design for lateral forces.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE

850**Prestressed Concrete**[LINK \(http://bulletin.unl.edu/courses/CIVE/850\)](http://bulletin.unl.edu/courses/CIVE/850)**Prereqs:**[CIVE 341 \(http://bulletin.unl.edu/courses/CIVE/341\)](http://bulletin.unl.edu/courses/CIVE/341) and [CIVE 440 \(http://bulletin.unl.edu/courses/CIVE/440\)](http://bulletin.unl.edu/courses/CIVE/440)

Analysis and design of prestressed concrete members. Axial force, bending,

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

shear, torsion, prestress losses, initial and long-term deflection, partial prestressing, statically indeterminate structures.

CIVE

852

Water Resources Development

[LINK \(http://bulletin.unl.edu/courses/CIVE/852\)](http://bulletin.unl.edu/courses/CIVE/852)

Prereqs:

[CIVE 352 \(http://bulletin.unl.edu/courses/CIVE/352\)](http://bulletin.unl.edu/courses/CIVE/352)

This course is a prerequisite for: [CIVE 915 \(http://bulletin.unl.edu/courses/CIVE/915\)](http://bulletin.unl.edu/courses/CIVE/915), [CIVE 952 \(http://bulletin.unl.edu/courses/CIVE/952\)](http://bulletin.unl.edu/courses/CIVE/952)

Theory and application of systems engineering with emphasis on optimization and simulation techniques for evaluating alternatives in water resources developments related to water supply, flood control, hydroelectric power, drainage, water quality, water distribution, irrigation, and water measurement.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE

854

Hydraulic Engineering

[LINK \(http://bulletin.unl.edu/courses/CIVE/854\)](http://bulletin.unl.edu/courses/CIVE/854)

Prereqs:

[CIVE 352 \(http://bulletin.unl.edu/courses/CIVE/352\)](http://bulletin.unl.edu/courses/CIVE/352)

This course is a prerequisite for: [CIVE 954 \(http://bulletin.unl.edu/courses/CIVE/954\)](http://bulletin.unl.edu/courses/CIVE/954)

Fundamentals of hydraulics with applications of mechanics of solids, mechanics of fluids, and engineering economics to the design of hydraulic structures. Continuity, momentum, and energy principles are applied to special problems from various branches of hydraulic engineering.

Credit Hours:	3-4
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

CIVE

856

Surface Water Hydrology

[LINK \(http://bulletin.unl.edu/courses/CIVE/856\)](http://bulletin.unl.edu/courses/CIVE/856)

Prereqs:

[CIVE 352 \(http://bulletin.unl.edu/courses/CIVE/352\)](http://bulletin.unl.edu/courses/CIVE/352) or [CIVE 853 \(http://bulletin.unl.edu/courses/CIVE/853\)](http://bulletin.unl.edu/courses/CIVE/853) or permission

Stochastic analysis of hydrological data and processes including rainfall, runoff, infiltration, temperature, solar radiation, wind and non-pint pollution. Space-time hydrologic modeling with emphasis on the application of techniques in the design of engineering projects.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE

857

Applied Structural Analysis

[LINK \(http://bulletin.unl.edu/courses/CIVE/857\)](http://bulletin.unl.edu/courses/CIVE/857)

Prereqs:

[CIVE 851 \(http://bulletin.unl.edu/courses/CIVE/851\)](http://bulletin.unl.edu/courses/CIVE/851)

Review of basic concepts. Mesh generation using a preprocessor. 2D and 3D Model generation. Boundary conditions. Implicit and explicit solution algorithms. Interpretation of analysis results using a post-processor. Solution of problems using existing FE software.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE

861

Urban Transportation Planning

[LINK \(http://bulletin.unl.edu/courses/CIVE/861\)](http://bulletin.unl.edu/courses/CIVE/861)

Prereqs:

[CIVE 361 \(http://bulletin.unl.edu/courses/CIVE/361\)](http://bulletin.unl.edu/courses/CIVE/361)

Credit Hours:	3
Campus:	

Development of urban transportation planning objectives and goals. Data collection procedures, land use and travel forecasting techniques, trip generation, trip distribution, modal choice analyses, and traffic assignment. Site development and traffic impact analysis.

Course Delivery: Classroom

CIVE

864

Analysis and Estimation of Transportation Demand

LINK (<http://bulletin.unl.edu/courses/CIVE/864>)

Prereqs:

[CIVE 461 \(http://bulletin.unl.edu/courses/CIVE/461\)](http://bulletin.unl.edu/courses/CIVE/461)/[861 \(http://bulletin.unl.edu/courses/CIVE/861\)](http://bulletin.unl.edu/courses/CIVE/861) or equivalent

Introduction to conceptual, methodological and mathematical foundations of analysis and design of transportation services. Review of probabilistic modeling. Application of discrete choice models to demand analysis.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CIVE

865

Highway Geometrics

LINK (<http://bulletin.unl.edu/courses/CIVE/865>)

Prereqs:

[CIVE 462 \(http://bulletin.unl.edu/courses/CIVE/462\)](http://bulletin.unl.edu/courses/CIVE/462)/[862 \(http://bulletin.unl.edu/courses/CIVE/862\)](http://bulletin.unl.edu/courses/CIVE/862) or equivalent

Principles of highway geometrics. Sight distance, design vehicles, vehicle characteristics, horizontal and vertical alignment, cross section elements, and at-grade intersections and interchanges.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CIVE

866

Transportation Characteristics

LINK (<http://bulletin.unl.edu/courses/CIVE/866>)

Prereqs:

[CIVE 463 \(http://bulletin.unl.edu/courses/CIVE/463\)](http://bulletin.unl.edu/courses/CIVE/463)/[863 \(http://bulletin.unl.edu/courses/CIVE/863\)](http://bulletin.unl.edu/courses/CIVE/863) or equivalent; [MATH/STAT 380 \(http://bulletin.unl.edu/courses/STAT/380\)](http://bulletin.unl.edu/courses/STAT/380) or equivalent.

This course is a prerequisite for: [CIVE 964 \(http://bulletin.unl.edu/courses/CIVE/964\)](http://bulletin.unl.edu/courses/CIVE/964)

Use of the concepts of volume, speed, density, and capacity to describe the characteristics and performance of surface, air, and water transportation systems.

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Campus:

Course Delivery: Classroom

CIVE

867

Transportation Safety Engineering

LINK (<http://bulletin.unl.edu/courses/CIVE/867>)

Prereqs:

Permission

Safety criteria in the planning, design, and operation phases of highway, rail, airport, mass transit, pipeline, and waterway transportation systems. Background of safety legislation and funding requirements. Identification of high accident locations and methods to determine cost/effectiveness of improvements.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CIVE

880

Engineering Economy

LINK (<http://bulletin.unl.edu/courses/CIVE/880>)

Prereqs:

Permission

Economic comparison of engineering alternatives. Equipment selection and

Credit Hours: 2

Campus:

Course Delivery: Classroom

replacement, depreciation, break-even points, and minimum-cost points.

CIVE
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/CIVE/899\)](http://bulletin.unl.edu/courses/CIVE/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

CIVE
915

Water Resources Engineering

[LINK \(http://bulletin.unl.edu/courses/CIVE/915\)](http://bulletin.unl.edu/courses/CIVE/915)

Prereqs:
[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821), [CIVE 852 \(http://bulletin.unl.edu/courses/CIVE/852\)](http://bulletin.unl.edu/courses/CIVE/852) and permission

Techniques for relating economic objectives, engineering analysis, and government planning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
916

Environmental Law and Water Resource Management Seminar

[LINK \(http://bulletin.unl.edu/courses/CIVE/916\)](http://bulletin.unl.edu/courses/CIVE/916)

Crosslisted as *NRES 916, LAW 774G*

Prereqs:
Permission

An interdisciplinary seminar with the Department of Civil Engineering. Contemporary environmental issues and water resource management.

Credit Hours:	1-4
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

CIVE
921

Advanced Topics in Hazardous Waste Treatment

[LINK \(http://bulletin.unl.edu/courses/CIVE/921\)](http://bulletin.unl.edu/courses/CIVE/921)

Prereqs:
[CIVE 822 \(http://bulletin.unl.edu/courses/CIVE/822\)](http://bulletin.unl.edu/courses/CIVE/822) or permission

Application of existing and innovative technologies in the remediation of hazardous wastes, including methods for treatment and disposal of contaminated soil, surface waters, groundwaters, and gases.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
926

Advanced Topics in Water Treatment

[LINK \(http://bulletin.unl.edu/courses/CIVE/926\)](http://bulletin.unl.edu/courses/CIVE/926)

Prereqs:
[CIVE *826 or CIVE 830 \(http://bulletin.unl.edu/courses/CIVE/830\)](http://bulletin.unl.edu/courses/CIVE/830)

Theoretical basis of water treatment, advanced and emerging systems for water treatment, purification and reclamation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
927

Advanced Topics in Wastewater Treatment

[LINK \(http://bulletin.unl.edu/courses/CIVE/927\)](http://bulletin.unl.edu/courses/CIVE/927)

Prereqs:
[CIVE 825 \(http://bulletin.unl.edu/courses/CIVE/825\)](http://bulletin.unl.edu/courses/CIVE/825) or [CIVE 829 \(http://bulletin.unl.edu/courses/CIVE/829\)](http://bulletin.unl.edu/courses/CIVE/829)

This course is a prerequisite for: [CIVE 929 \(http://bulletin.unl.edu/courses/CIVE/929\)](http://bulletin.unl.edu/courses/CIVE/929)

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Theoretical basis of wastewater treatment, study of advanced and emerging systems for wastewater treatment and reclamation.

CIVE
928 **Industrial Waste Management Engineering**

[LINK \(http://bulletin.unl.edu/courses/CIVE/928\)](http://bulletin.unl.edu/courses/CIVE/928)

Prereqs:
CIVE *828, *CIVE 829 (<http://bulletin.unl.edu/courses/CIVE/829>)

Industrial waste sources, characteristics, treatment and disposal.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

CIVE
929 **Industrial Waste Laboratory**

[LINK \(http://bulletin.unl.edu/courses/CIVE/929\)](http://bulletin.unl.edu/courses/CIVE/929)

Prereqs:
or parallel: CIVE 927 (<http://bulletin.unl.edu/courses/CIVE/927>)

Determination of the characteristics of industrial wastewaters and evaluation of treatment methods, including field surveys, laboratory analyses, and pilot plant studies.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

CIVE
930 **Advanced and Industrial Wastewater Treatment**

[LINK \(http://bulletin.unl.edu/courses/CIVE/930\)](http://bulletin.unl.edu/courses/CIVE/930)

Prereqs:
CIVE *826. Parallel: CIVE *829.

Characteristics of municipal and industrial wastewaters, theory of treatment, and design of unit processes for wastewater reclamation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
934 **Theoretical Soil Mechanics II**

[LINK \(http://bulletin.unl.edu/courses/CIVE/934\)](http://bulletin.unl.edu/courses/CIVE/934)

Prereqs:
CIVE 834 (<http://bulletin.unl.edu/courses/CIVE/834>) or permission;
MATH 821 (<http://bulletin.unl.edu/courses/MATH/821>)

Analytical and approximate solutions to seepage problems encountered in the analysis of earth structures that impound water. Problems dealing with estimating the quantity of seepage, definition of the flow domain, uplift pressure, piping, and slope stability.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
936 **Advanced Foundation Engineering**

[LINK \(http://bulletin.unl.edu/courses/CIVE/936\)](http://bulletin.unl.edu/courses/CIVE/936)

Prereqs:
CIVE 836 (<http://bulletin.unl.edu/courses/CIVE/836>) or permission

Case histories of select projects in foundation engineering; current procedures for design and construction of excavations, foundations, and earth-retaining structures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
937 **Applied Soil Mechanics**

[LINK \(http://bulletin.unl.edu/courses/CIVE/937\)](http://bulletin.unl.edu/courses/CIVE/937)

Prereqs:
[CIVE 834 \(http://bulletin.unl.edu/courses/CIVE/834\)](http://bulletin.unl.edu/courses/CIVE/834), [CIVE 836 \(http://bulletin.unl.edu/courses/CIVE/836\)](http://bulletin.unl.edu/courses/CIVE/836), or permission

Case histories representing state-of-the-art solutions of geotechnical problems, e.g., structures composed of soil, preloading, slope stability, seismic design, emphasizing geological, analytical, experimental, and judgmental factors.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CIVE

940

Behavior of Steel Members

[LINK \(http://bulletin.unl.edu/courses/CIVE/940\)](http://bulletin.unl.edu/courses/CIVE/940)

Prereqs:
[CIVE 446 \(http://bulletin.unl.edu/courses/CIVE/446\)](http://bulletin.unl.edu/courses/CIVE/446)/[846 \(http://bulletin.unl.edu/courses/CIVE/846\)](http://bulletin.unl.edu/courses/CIVE/846)

Behavior and/or design of structural steel members and their connections. Torsion effects on open and closed thin walled members. Frame buckling and stability considerations in structural steel frames. Dynamic analysis and seismic design considerations.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

CIVE

941

Behavior of Reinforced Concrete Members

[LINK \(http://bulletin.unl.edu/courses/CIVE/941\)](http://bulletin.unl.edu/courses/CIVE/941)

Prereqs:
[CIVE 847 \(http://bulletin.unl.edu/courses/CIVE/847\)](http://bulletin.unl.edu/courses/CIVE/847)

Rigorous treatment of the behavior of structural components of reinforced concrete, both conventionally reinforced and prestressed, as interpreted by experimental evidence and related theory, when subjected to loads producing elastic or plastic strains or a combination of both. Selected laboratory demonstrations on the behavior of reinforced concrete members.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CIVE

944

Behavior of Miscellaneous Structural Materials

[LINK \(http://bulletin.unl.edu/courses/CIVE/944\)](http://bulletin.unl.edu/courses/CIVE/944)

Prereqs:
[CIVE 845 \(http://bulletin.unl.edu/courses/CIVE/845\)](http://bulletin.unl.edu/courses/CIVE/845), [MATH 820 \(http://bulletin.unl.edu/courses/MATH/820\)](http://bulletin.unl.edu/courses/MATH/820) or [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

Analysis of the behavior of structural components and systems composed of such materials as light gage cold-formed steel, aluminum, timber, plywood, brick and concrete block, compressed fibrous materials, and composite arrangements of structural materials. Use is made of currently approved national specifications or codes. Selected laboratory demonstrations of the behavior of members constructed from miscellaneous structural materials.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CIVE

945

Structural Design for Dynamic Loads

[LINK \(http://bulletin.unl.edu/courses/CIVE/945\)](http://bulletin.unl.edu/courses/CIVE/945)

Prereqs:
[ENGM 880 \(http://bulletin.unl.edu/courses/ENGM/880\)](http://bulletin.unl.edu/courses/ENGM/880), [CIVE 845 \(http://bulletin.unl.edu/courses/CIVE/845\)](http://bulletin.unl.edu/courses/CIVE/845)

Behavior of structural materials and systems under dynamic loads. Analysis and design for dynamic loads. Computational techniques. Selected laboratory demonstrations of the dynamic behavior of structural systems.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CIVE

Advanced Structural Engineering

[LINK \(http://bulletin.unl.edu/courses/CIVE/946\)](http://bulletin.unl.edu/courses/CIVE/946)

946**Prereqs:**
Permission

Contemporary developments in the analysis and design of space-spanning and space-enclosing structures, including appropriate mathematical and mechanical methods of analysis. Laboratory instruction in the testing and interpretation of the behavior of space-spanning and space-enclosing structures.

Credit Hours:	2-6
Campus:	
Course Delivery:	Classroom

CIVE **948** Blast-resistant Structural Design

[LINK \(http://bulletin.unl.edu/courses/CIVE/948\)](http://bulletin.unl.edu/courses/CIVE/948)

Prereqs:
[CIVE 842 \(http://bulletin.unl.edu/courses/CIVE/842\)](http://bulletin.unl.edu/courses/CIVE/842)

Introduction to explosion effects. Air-blast. Fragmentation. Single-Degree-of-Freedom (SDOF) analysis. Equivalent SDOF systems. Pressure-impulse diagrams. Energy solutions. Steel design. Reinforced concrete design. Masonry design. Progressive collapse. Windows and doors.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE **949** Steel Bridge Design

[LINK \(http://bulletin.unl.edu/courses/CIVE/949\)](http://bulletin.unl.edu/courses/CIVE/949)

Prereqs:
[CIVE 436 \(http://bulletin.unl.edu/courses/CIVE/436\)](http://bulletin.unl.edu/courses/CIVE/436)/[836 \(http://bulletin.unl.edu/courses/CIVE/836\)](http://bulletin.unl.edu/courses/CIVE/836) and [CIVE 446 \(http://bulletin.unl.edu/courses/CIVE/446\)](http://bulletin.unl.edu/courses/CIVE/446)/[846 \(http://bulletin.unl.edu/courses/CIVE/846\)](http://bulletin.unl.edu/courses/CIVE/846).

Analysis and design of steel bridges for short-, medium-, and long-span road and water crossings. Stringer bridges. Truss, arch, cable-stayed, and suspension bridges. High performance steel and accelerated construction.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE **950** Concrete Bridge Design

[LINK \(http://bulletin.unl.edu/courses/CIVE/950\)](http://bulletin.unl.edu/courses/CIVE/950)

Prereqs:
[CIVE 436 \(http://bulletin.unl.edu/courses/CIVE/436\)](http://bulletin.unl.edu/courses/CIVE/436)/[836 \(http://bulletin.unl.edu/courses/CIVE/836\)](http://bulletin.unl.edu/courses/CIVE/836) and [CIVE 447 \(http://bulletin.unl.edu/courses/CIVE/447\)](http://bulletin.unl.edu/courses/CIVE/447)/[847 \(http://bulletin.unl.edu/courses/CIVE/847\)](http://bulletin.unl.edu/courses/CIVE/847).

Analysis and design of cast-in-place and precast prestressed concrete bridges. Stringer bridges. High performance concrete and rapid construction methods. Spliced girders, segmental box girders, and other long span bridge systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE **952** Water Resources Planning

[LINK \(http://bulletin.unl.edu/courses/CIVE/952\)](http://bulletin.unl.edu/courses/CIVE/952)

Prereqs:
[CIVE 852 \(http://bulletin.unl.edu/courses/CIVE/852\)](http://bulletin.unl.edu/courses/CIVE/852) or permission

Techniques of solving topical water problems including groundwater contamination control, conflict resolution and risk analysis for contamination and river sediment management. Research and teamwork, including presentation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
954

Advanced Hydraulics

[LINK \(http://bulletin.unl.edu/courses/CIVE/954\)](http://bulletin.unl.edu/courses/CIVE/954)

Prereqs:
CIVE 854 (<http://bulletin.unl.edu/courses/CIVE/854>) or equivalent and permission

Advanced studies involving pipe and culvert hydraulics, rapidly-varied flow in open channels, sediment transport, river mechanics, control, and design.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
958

Groundwater Mechanics

[LINK \(http://bulletin.unl.edu/courses/CIVE/958\)](http://bulletin.unl.edu/courses/CIVE/958)

Prereqs:
CIVE 858 (<http://bulletin.unl.edu/courses/CIVE/858>) or equivalent

Theory of fluid and contaminant movement in groundwater systems. Analytic modeling of aquifers, wells and well fields, and transport.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
959

Groundwater Modeling

[LINK \(http://bulletin.unl.edu/courses/CIVE/959\)](http://bulletin.unl.edu/courses/CIVE/959)

Prereqs:
CIVE 858 (<http://bulletin.unl.edu/courses/CIVE/858>) or equivalent

Modeling techniques for groundwater systems, finite difference, finite element methods and other numerical techniques applied to both flow and transport problems. Applications to both groundwater hydrology and geotechnical engineering.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
961

Mass Transit Systems

[LINK \(http://bulletin.unl.edu/courses/CIVE/961\)](http://bulletin.unl.edu/courses/CIVE/961)

Prereqs:
Permission

The place of mass transit in solving urban transportation problems: transit system and terminal characteristics and planning criteria. Speed, capacity, accessibility, and operation of mass transit systems. Future prospects in transit technology and case studies of existing systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE
962

Application of Geographic Information Systems GIS to Transportation

[LINK \(http://bulletin.unl.edu/courses/CIVE/962\)](http://bulletin.unl.edu/courses/CIVE/962)

Prereqs:
Permission.

Geographic Information Systems (GIS) structure, functions, and concepts such as spatial data models, relational databases, and spatial analyses. GIS project planning, management, and applications to transportation-related issues.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CIVE
963

Highway Safety Data Analysis

[LINK \(http://bulletin.unl.edu/courses/CIVE/963\)](http://bulletin.unl.edu/courses/CIVE/963)

Prereqs:
STAT 801 (<http://bulletin.unl.edu/courses/STAT/801>) or equivalent; and permission

Credit Hours:	3
Course Format:	Lecture 3

Highway safety issues and appropriate accident data analyses. Quantify changes in safety when modifications are made to highways in an effort to enhance safety. Judge reported safety improvements and carry out appropriate analyses for assessing the effectiveness of safety improvements.

Campus:
Course Delivery: Classroom

CIVE
964 **Theory of Traffic Flow**

[LINK \(http://bulletin.unl.edu/courses/CIVE/964\)](http://bulletin.unl.edu/courses/CIVE/964)

Prereqs:
STAT 801 (<http://bulletin.unl.edu/courses/STAT/801>) or equivalent;
and **CIVE 866** (<http://bulletin.unl.edu/courses/CIVE/866>)

Analysis of traffic characteristics as applied to traffic engineering facility design and flow optimization. Capacity of expressways, ramps, weaving sections, and intersections. Analytical approaches to flow analysis, queueing theory, flow density relationships, and traffic simulation.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

CIVE
965 **Traffic Control Systems**

[LINK \(http://bulletin.unl.edu/courses/CIVE/965\)](http://bulletin.unl.edu/courses/CIVE/965)

Prereqs:
CIVE 966 (<http://bulletin.unl.edu/courses/CIVE/966>) and permission

Principles of traffic control. Design and analysis of intersection, arterial street, network, and freeway control systems. Traffic surveillance and driver information systems.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

CIVE
966 **Transportation Planning and Economics**

[LINK \(http://bulletin.unl.edu/courses/CIVE/966\)](http://bulletin.unl.edu/courses/CIVE/966)

Prereqs:
Permission.

This course is a prerequisite for: [CIVE 965 \(http://bulletin.unl.edu/courses/CIVE/965\)](http://bulletin.unl.edu/courses/CIVE/965)

Community growth and development based on planning decisions regarding land use whereby transportation facilities are fitted to land use. Economic studies that consider the consequences to transportation agencies, users, and nonusers. Agency expenditures, capital outlay and annual expenses for maintenance and operations. User consequences such as vehicle operating costs; commercial time costs; accident costs; discomfort and inconvenience costs; and assignment of money valuations to pleasure, recreation, and culture. Nonusers consequences such as cost reductions or increases in public services; increases in value of crops and natural resources where areas become more readily accessible; changes in business and industrial activities; and increase or decrease of residential property values.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

CIVE
967 **Analysis and Design of Transportation Supply Systems**

[LINK \(http://bulletin.unl.edu/courses/CIVE/967\)](http://bulletin.unl.edu/courses/CIVE/967)

Prereqs:
Permission

Operations research techniques for modeling system performance and design of transportation services. Routing and scheduling problems. Network equilibration and partially distributed queuing systems.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

CIVE
989 **Seminar in Civil Engineering**

[LINK \(http://bulletin.unl.edu/courses/CIVE/989\)](http://bulletin.unl.edu/courses/CIVE/989)

Prereqs:
Permission

Current topics, research projects, and review of current literature in the various areas of civil engineering.

Credit Hours:	1
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

CIVE
998 **Special Problems in Civil Engineering**

[LINK \(http://bulletin.unl.edu/courses/CIVE/998\)](http://bulletin.unl.edu/courses/CIVE/998)

Prereqs:
Permission

Reading and evaluation of technical publications concerned with theory and/or experimental data. Subsequent assignments are coordinated with the student's particular interests in his/her field of specialization.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

CIVE
999 **Doctoral Dissertation**

[LINK \(http://bulletin.unl.edu/courses/CIVE/999\)](http://bulletin.unl.edu/courses/CIVE/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

ENGM
851 **Introduction to Finite Element Analysis**

Crosslisted as *CIVE 851*

[LINK \(http://bulletin.unl.edu/courses/ENGM/851\)](http://bulletin.unl.edu/courses/ENGM/851)

Prereqs:
ENGM 325 (<http://bulletin.unl.edu/courses/ENGM/325>) and ENGM 880 (<http://bulletin.unl.edu/courses/ENGM/880>) or permission

This course is a prerequisite for: [ENGM 951 \(http://bulletin.unl.edu/courses/ENGM/951\)](http://bulletin.unl.edu/courses/ENGM/951)

Matrix methods of analysis. The finite element stiffness method. Computer programs. Applications to structures and soils. Introduction to finite element analysis of fluid flow.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOL
985 **Solute Movement in Soils**

Crosslisted as *CIVE 955, AGRO 955, AGEN 955*

[LINK \(http://bulletin.unl.edu/courses/GEOL/985\)](http://bulletin.unl.edu/courses/GEOL/985)

Prereqs:
MATH 208 (<http://bulletin.unl.edu/courses/MATH/208>); AGRO 861 (<http://bulletin.unl.edu/courses/AGRO/861>) or GEOL 888 (<http://bulletin.unl.edu/courses/GEOL/888>) or MSYM 852 (<http://bulletin.unl.edu/courses/MSYM/852>) or CIVE 858 (<http://bulletin.unl.edu/courses/CIVE/858>)

Knowledge of a programming language. [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) recommended. Offered even-numbered calendar years.

Examination of the theory and experimental evidence available to characterize the movement of chemicals in soil. Both saturated and unsaturated flow conditions examined. Initial presentation of basic theoretical concepts. Remainder of class a discussion of the literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

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Courses for CNST (CNST)

CNST

Project Administration[LINK \(http://bulletin.unl.edu/courses/CNST/411\)](http://bulletin.unl.edu/courses/CNST/411)**411/811****Prereqs:****Junior standing; [CIVE 361 \(http://bulletin.unl.edu/courses/CIVE/361\)](http://bulletin.unl.edu/courses/CIVE/361).***CNST 411 (<http://bulletin.unl.edu/courses/CNST/411/811>) (<http://bulletin.unl.edu/courses/CNST/811>) is 'Letter Grade only'.*

An introduction to construction project administration. Ownership and organization of construction companies, drawings and specifications, type of contracts, take-offs, estimating, bidding, bonds, insurance, project management and administration, scheduling, time and cost management, labor law and labor relations, and project safety.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CNST

Professional Practice and Ethics[LINK \(http://bulletin.unl.edu/courses/CNST/420\)](http://bulletin.unl.edu/courses/CNST/420)**420/820/4200/8206****Prereqs:****Senior standing; (UNL) [CNST 379](http://bulletin.unl.edu/courses/CNST/379)****(<http://bulletin.unl.edu/courses/CNST/379>) or (UNO) [CNST 3790](http://bulletin.unl.edu/courses/CNST/3790) (<http://bulletin.unl.edu/courses/CNST/3790>); and (UNL) [BLAW 371](http://bulletin.unl.edu/courses/BLAW/371) (<http://bulletin.unl.edu/courses/BLAW/371>) or [372](http://bulletin.unl.edu/courses/BLAW/372) (<http://bulletin.unl.edu/courses/BLAW/372>) or (UNO) [LAWS 2920](http://bulletin.unl.edu/courses/LAWS/2920) (<http://bulletin.unl.edu/courses/LAWS/2920>), with a grade of 'C' or better.**

Orientation to professional practice through the designers' and the contractors' relationships to society, specific clients, their professions, and other collaborators in environmental design and construction fields. Ethics, professional communication and responsibility, professional organization, office management, construction management, professional registration, and owner-designer-contractor relationships.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom
ACE Outcomes:	8 ⁷

CNST

Intent and Application of International Building Code[LINK \(http://bulletin.unl.edu/courses/CNST/436\)](http://bulletin.unl.edu/courses/CNST/436)**436/836****Prereqs:****[CNST 112 \(http://bulletin.unl.edu/courses/CNST/112\)](http://bulletin.unl.edu/courses/CNST/112), [131 \(http://bulletin.unl.edu/courses/CNST/131\)](http://bulletin.unl.edu/courses/CNST/131), and [251 \(http://bulletin.unl.edu/courses/CNST/251\)](http://bulletin.unl.edu/courses/CNST/251).**

This course is designed to provide a fundamental understanding of how to research, interpret and apply building code requirements to the design and construction of both new and renovated structures.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CNST

Productivity and Human Factors in Construction[LINK \(http://bulletin.unl.edu/courses/CNST/480\)](http://bulletin.unl.edu/courses/CNST/480)**480/880/4800/8806****Prereqs:****Senior standing; [CNST 242](http://bulletin.unl.edu/courses/CNST/242)****(<http://bulletin.unl.edu/courses/CNST/242>)/(UNO) [CNST 2420](http://bulletin.unl.edu/courses/CNST/2420) (<http://bulletin.unl.edu/courses/CNST/2420>); grade of 'C' or better in [MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)/360H](http://bulletin.unl.edu/courses/MNGT/360) (<http://bulletin.unl.edu/courses/MNGT/360H>) or (UNO) [MGMT 3940](http://bulletin.unl.edu/courses/MGMT/3940) (<http://bulletin.unl.edu/courses/MGMT/3940>).**

Motivation and productivity improvement methods in the management of construction workers in their typical job environments. Methods to improve working environments in the field and in the office. Procedures and mechanisms to implement human behavior concepts for enhanced productivity and safety.

Credit Hours:	3
Course Format:	Lecture 3, Recitation 1
Campus:	UNO
Course Delivery:	Classroom

CNST

482/882**Heavy and/or Civil Construction**Crosslisted as *CONE 482/882*[LINK \(http://bulletin.unl.edu/courses/CNST/482\)](http://bulletin.unl.edu/courses/CNST/482)**Prereqs:****Senior or Graduate standing in ARCH, AREN, CIVE, CNST, or CONE.**

Application of management principles to the construction of heavy and/or civil projects. History, theory, and methods of planning and constructing heavy and/or civil projects. Emerging equipment and new equipment capabilities. Economical use of equipment and managing costs associated with production.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CNST

486/886/4860/8866**Construction Management Systems** [LINK \(http://bulletin.unl.edu/courses/CNST/486\)](http://bulletin.unl.edu/courses/CNST/486)**Prereqs:**

Grade of 'C' or better in STAT 218
<http://bulletin.unl.edu/courses/STAT/218> or (UNO) **MATH 1530**
<http://bulletin.unl.edu/courses/MATH/1530>, or equivalent.

Application of selected topics in systems analysis (operations research) to construction management: competition strategy; linear programming; queuing; transportation; time-cost trade-off; learning curves; and other models. Computer applications.

Credit Hours:	3
Course Format:	Lecture 3, Recitation 1
Campus:	UNO
Course Delivery:	Classroom

CNST

815**Mechanical/Electrical Project Management**[LINK \(http://bulletin.unl.edu/courses/CNST/815\)](http://bulletin.unl.edu/courses/CNST/815)

Fundamentals of project management within the mechanical and electrical contracting industry. Codes, contract documents, productivity, coordination, project control and administration, scheduling safety, and project closeout, all from a speciality contracting perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CNST

826**Occupational Health and Safety for Construction**[LINK \(http://bulletin.unl.edu/courses/CNST/826\)](http://bulletin.unl.edu/courses/CNST/826)**Prereqs:****Permission**

Open only to students in engineering, construction management, architecture, or other closely related fields.

Investigation of occupational health and safety hazards in the construction environment. Accident causation and illness exposure models, construction safety and health programs and contract requirements, project safety and health management, special problems in construction safety, OSHA/EPD/ADA regulation and compliance issues, health assessment and monitoring, safe building methods design, toxic substance exposures, abatement methods, and worker training and protection.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CNST

834**Professional Trends in Design/Build**[LINK \(http://bulletin.unl.edu/courses/CNST/834\)](http://bulletin.unl.edu/courses/CNST/834)**Prereqs:****Permission; master in engineering in construction or a related discipline**

Organizational, managerial, ethical, and legal principles in the delivery of Design/Build as a construction project delivery system.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CNST

Design/Build: Methods and Application

835**Prereqs:**
Permission

Open only to students in engineering, construction management, architecture, or other closely related fields.

Investigation, documentation, and application of current Design/Build processes and methodology used in commercial construction. Principles and practices of Design/Build as a project delivery system.

[LINK \(http://bulletin.unl.edu/courses/CNST/835\)](http://bulletin.unl.edu/courses/CNST/835)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CNST

850**Sustainable Construction**[LINK \(http://bulletin.unl.edu/courses/CNST/850\)](http://bulletin.unl.edu/courses/CNST/850)**Prereqs:**
Graduate standing in ARCH, CET, CIVE, or CNST

Application of Leadership in Energy and Environmental Design (LEED) best practices in building procurement and delivery systems. History, theory, and state-of-the-art practices in designing and constructing green buildings. Basic principles required to make the multitude of decisions when designing or constructing a green building. LEED construction practices (emerging practices that are economical, produce esthetically pleasing structures, and are environmentally sound).

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

CNST

858**Construction Information Management Systems**[LINK \(http://bulletin.unl.edu/courses/CNST/858\)](http://bulletin.unl.edu/courses/CNST/858)**Prereqs:**
Graduate standing in construction management or related discipline with instructor approval.

Fundamental knowledge of construction information management systems. Construction project management software will be used including database design.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CNST

860**Construction Visualization and Simulation**[LINK \(http://bulletin.unl.edu/courses/CNST/860\)](http://bulletin.unl.edu/courses/CNST/860)**Prereqs:**
Graduate standing in construction management or related discipline with instructor approval.

Fundamental knowledge of visualization platforms of buildings and construction. Topics include construction visualization software, basic data structure and programming, interoperability, and building performance simulation.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CNST

879**Construction Management and Construction Systems**[LINK \(http://bulletin.unl.edu/courses/CNST/879\)](http://bulletin.unl.edu/courses/CNST/879)**Prereqs:**
Permission

Quantity survey methods, production rate and cost analysis, bidding, contingency and risk analysis. Computer applications of estimating and research topics. Monte Carlo simulation, Virtual 3D, BIM applications relevant to construction estimating and risk analysis.

Credit Hours:	3
Course Format:	Lab 1, Lecture 2
Campus:	
Course Delivery:	Classroom

CNST
883

Management of Limited Scope Permitting

[LINK \(http://bulletin.unl.edu/courses/CNST/883\)](http://bulletin.unl.edu/courses/CNST/883)

Prereqs:
Graduate standing in ARCH, CET, CIVE, or CNST

Building code permitting process associated with all projects. Phased projects that require one or more limited scope permits prior to receiving the final full construction permit. How to improve coordination and reduce the confusion and risk associated with managing the permitting process. The permitting process that is applicable to both large and small projects and that can be easily adapted and used in all jurisdictions throughout the United States.

Credit Hours:	3
Course Format:	Lab 1, Lecture 2
Campus:	
Course Delivery:	Classroom

CNST
887

Construction Leadership and Strategic Planning

[LINK \(http://bulletin.unl.edu/courses/CNST/887\)](http://bulletin.unl.edu/courses/CNST/887)

Prereqs:
Permission

Open only to students in engineering, construction management, architecture, or other closely related fields.

New models of construction leadership for the 21st Century. Application of transformational leadership to strategic planning and marketing in construction contracting. Leadership and strategic problem solving constructs and methods.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CNST
890

Masters Project I

[LINK \(http://bulletin.unl.edu/courses/CNST/890\)](http://bulletin.unl.edu/courses/CNST/890)

Prereqs:
Admission to the master of engineering degree program with an emphasis in construction, and permission

First course in a two-course sequence required for the masters degree.

Technical report, technical paper, or portfolio project, culminating in a final document and oral presentation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CNST
898

Special Topics in Construction Management

[LINK \(http://bulletin.unl.edu/courses/CNST/898\)](http://bulletin.unl.edu/courses/CNST/898)

Prereqs:
Master of engineering in construction or related discipline and permission

A signed student-instructor learning contract is required.

Individual or small group investigation of special topics in construction management. Topic varies.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

CNST
936

Advanced Topics in Intent and Application of the International Building Code

[LINK \(http://bulletin.unl.edu/courses/CNST/936\)](http://bulletin.unl.edu/courses/CNST/936)

Prereqs:
Graduate standing in Construction Management or by instructor permission.

In-depth analysis of research methodology, interpretation and application of building code requirements associated with design and construction of both new and renovated structures.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CNST

991**Thesis and Dissertation Methods for Construction Research**[LINK \(http://bulletin.unl.edu/courses/CNST/991\)](http://bulletin.unl.edu/courses/CNST/991)**Prereqs:**

Graduate standing in AREN, CET, CIVE, CNST, or CONE.

A structured approach to thesis and dissertation methods, conducting a literature review, choosing appropriate analytical methods, and writing and presenting a construction research project. Seminar course.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CNST

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/CNST/999\)](http://bulletin.unl.edu/courses/CNST/999)**Prereqs:**

Admission to doctoral degree program and permission of supervisory committee chair.

Credit Hours:	1-24
Max credits per degree:	24
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

CONE

485**Construction Planning, Scheduling, and Controls**Crosslisted as *CNST 485/885*[LINK \(http://bulletin.unl.edu/courses/CONE/485\)](http://bulletin.unl.edu/courses/CONE/485)**Prereqs:**CONE/CNST 378 (<http://bulletin.unl.edu/courses/CNST/378>); AE 2250 (UNO).This course is a prerequisite for: [CONE 866 \(http://bulletin.unl.edu/courses/CONE/866\)](http://bulletin.unl.edu/courses/CONE/866)

Planning and scheduling a construction project using the critical path methods (CPM) with computer applications. Project pre-planning, logic networks, network construction, time estimates, critical path, float time, crash programs, scheduling, and monitoring project activities.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

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Courses for CONE (CONE)

CNST

482/882**Heavy and/or Civil Construction**Crosslisted as *CONE 482/882*[LINK \(http://bulletin.unl.edu/courses/CNST/482\)](http://bulletin.unl.edu/courses/CNST/482)**Prereqs:**

Senior or Graduate standing in ARCH, AREN, CIVE, CNST, or CONE.

Application of management principles to the construction of heavy and/or civil projects. History, theory, and methods of planning and constructing heavy and/or civil projects. Emerging equipment and new equipment capabilities. Economical use of equipment and managing costs associated with production.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CONE

416/816**Wood and/or Contemporary Materials Design**[LINK \(http://bulletin.unl.edu/courses/CONE/416\)](http://bulletin.unl.edu/courses/CONE/416)**Prereqs:**CIVE 341 (<http://bulletin.unl.edu/courses/CIVE/341>)This course is a prerequisite for: [CONE 417 \(http://bulletin.unl.edu/courses/CONE/417\)](http://bulletin.unl.edu/courses/CONE/417)

Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. Overview of materials design.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

Masonry, aluminum, and contemporary materials such as plastics and fiber reinforced systems and composite material groups. Design considerations, cost and contractibility analysis.

CONE

Formwork Systems

[LINK \(http://bulletin.unl.edu/courses/CONE/417\)](http://bulletin.unl.edu/courses/CONE/417)

417/817

Prereqs:

[CONE 416 \(http://bulletin.unl.edu/courses/CONE/416\)](http://bulletin.unl.edu/courses/CONE/416); parallel [CIVE 441 \(http://bulletin.unl.edu/courses/CIVE/441\)](http://bulletin.unl.edu/courses/CIVE/441).

Design of structural timber, beams, columns, and connections. Introduction to applicable design philosophies and codes. Overview of materials design. masonry, aluminum, and contemporary materials such as plastics and fiber reinforced systems and composite material groups. Design considerations, cost and constructability analysis.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CONE

Sustainable Construction

[LINK \(http://bulletin.unl.edu/courses/CONE/450\)](http://bulletin.unl.edu/courses/CONE/450)

450/850

Prereqs:

Senior standing.

Sustainable construction and its application to the green building industry. LEED certification process, sustainable building site management, efficient waste water applications, optimizing energy performance, indoor environmental issues, performance measurement and/or verification, recycled content and certified renewable materials.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CONE

BIM I: Introduction to Building Information Modeling (BIM)

[LINK \(http://bulletin.unl.edu/courses/CONE/459\)](http://bulletin.unl.edu/courses/CONE/459)

459/859

Prereqs:

[CNST 112 \(http://bulletin.unl.edu/courses/CNST/112\)](http://bulletin.unl.edu/courses/CNST/112) Construction, or Graduate standing in AREN, CIVE, CNST, or CONE.

This course instructs CAD users on the effective use of Building Information Model (BIM) for Integration of design, document and Construction Estimate. Topics include: model-based 3D design, file formats, interoperability, and MEP modeling.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CONE

Highway and Bridge Construction

[LINK \(http://bulletin.unl.edu/courses/CONE/481\)](http://bulletin.unl.edu/courses/CONE/481)

481/881

Prereqs:

Senior standing; [CONE/CNST 241 \(http://bulletin.unl.edu/courses/CNST/241\)](http://bulletin.unl.edu/courses/CONE/241).

The methods and equipment required in the construction of roads and bridges. Methods and equipment necessary for roads and bridges. Substructure and superstructures, precast and cast-in-place segments, and standard and specialized equipment.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CONE

Support of Excavation

[LINK \(http://bulletin.unl.edu/courses/CONE/483\)](http://bulletin.unl.edu/courses/CONE/483)

483/883

Prereqs:

Senior standing.

Credit Hours:	3
Course Format:	Lecture 3

The design and placement of excavation supports according to OSHA requirements and industry standards. A variety of routine to moderately complex support systems. Open excavations, sheet piling and cofferdams, soil mechanics, lateral loads, hydrology, and pumping methods.

Course Delivery: Classroom

CONE 485 Construction Planning, Scheduling, and Controls

[LINK \(http://bulletin.unl.edu/courses/CONE/485\)](http://bulletin.unl.edu/courses/CONE/485)

Crosslisted as *CNST 485/885*

Prereqs:
CONE/CNST 378 (<http://bulletin.unl.edu/courses/CNST/378>); **AE 2250 (UNO)**.

This course is a prerequisite for: [CONE 866 \(http://bulletin.unl.edu/courses/CONE/866\)](http://bulletin.unl.edu/courses/CONE/866)

Planning and scheduling a construction project using the critical path methods (CPM) with computer applications. Project pre-planning, logic networks, network construction, time estimates, critical path, float time, crash programs, scheduling, and monitoring project activities.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CONE 821 Construction Risk Assessment and Management

[LINK \(http://bulletin.unl.edu/courses/CONE/821\)](http://bulletin.unl.edu/courses/CONE/821)

Prereqs:
STAT 380 (<http://bulletin.unl.edu/courses/STAT/380>).

The overall process of hazards risk management (risk identification, risk analysis, risk assessment, risk communication), risk based decision making and risk mitigation. Classification of building stock, defining vulnerability, risk assessment methods, assessing economic losses and cost benefit analysis. Case studies will be used to demonstrate the application of risk management principles/techniques in practice.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CONE 866 Heavy and/or Civil Estimating

[LINK \(http://bulletin.unl.edu/courses/CONE/866\)](http://bulletin.unl.edu/courses/CONE/866)

Prereqs:
CONE/CNST 241 (<http://bulletin.unl.edu/courses/CNST/241>) and **378** (<http://bulletin.unl.edu/courses/CNST/378>); **CONE 485** (<http://bulletin.unl.edu/courses/CONE/485>)/**CNST 485** (<http://bulletin.unl.edu/courses/CNST/485>)/**885** (<http://bulletin.unl.edu/courses/CNST/885>)

Estimating techniques and strategies for heavy and/or civil construction. Unit pricing, heavy and civil constructions takeoffs and estimating, equipment analysis, overhead cost and allocations, estimating software and government contracts.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CONE 891 Special Topics in Construction Engineering

[LINK \(http://bulletin.unl.edu/courses/CONE/891\)](http://bulletin.unl.edu/courses/CONE/891)

Prereqs:
Master of engineering in construction or related discipline and permission.

A signed student-instructor learning contract is required.

Individual or small group investigation of special topics in construction engineering. Topic varies.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CONE 898 Special Topics in Construction Engineering

[LINK \(http://bulletin.unl.edu/courses/CONE/898\)](http://bulletin.unl.edu/courses/CONE/898)

CONE 898

Prereqs:
Master of engineering in construction or related discipline and permission

A signed student–instructor learning contract is required. Individual or small group investigation of special topics in construction engineering. Topic varies.

Credit Hours:	1–6
Max credits per degree:	6
Course Format:	Lecture 1
Campus:	UNO
Course Delivery:	Classroom

CONE

Professional Practice

96

[LINK \(http://bulletin.unl.edu/courses/CONE/96\)](http://bulletin.unl.edu/courses/CONE/96)

Prereqs:
Senior standing.

CONE 96 (http://bulletin.unl.edu/courses/CONE/96) is required of CONE majors prior to graduation. The work experience must be pre-approved by the faculty adviser in the CONE department.

Work experience in a construction related work area.

Credit Hours:	0
Course Format:	Field
Campus:	UNO
Course Delivery:	Classroom

CONE

Precast Concrete Construction

981

[LINK \(http://bulletin.unl.edu/courses/CONE/981\)](http://bulletin.unl.edu/courses/CONE/981)

Prereqs:
[CIVE 440 \(http://bulletin.unl.edu/courses/CIVE/440\)](http://bulletin.unl.edu/courses/CIVE/440) and [CIVE 441 \(http://bulletin.unl.edu/courses/CIVE/441\)](http://bulletin.unl.edu/courses/CIVE/441).

Introduces building and bridge construction using precast concrete components including design, production, and erection challenges with emphasis on precast connection details.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

CONE

Doctoral Dissertation

999

[LINK \(http://bulletin.unl.edu/courses/CONE/999\)](http://bulletin.unl.edu/courses/CONE/999)

Prereqs:
Admission to the Doctor of Philosophy in Engineering degree program and permission of the major advisor.

Credit Hours:	1–21
Max credits per degree:	21
Course Format:	Lecture
Campus:	UNO
Course Delivery:	Classroom

Courses for ELEC (ELEC)

ELEC

Semiconductor Fundamentals II

417/817

[LINK \(http://bulletin.unl.edu/courses/ELEC/417\)](http://bulletin.unl.edu/courses/ELEC/417)

Prereqs:
[ELEC 421 \(http://bulletin.unl.edu/courses/ELEC/421\)](http://bulletin.unl.edu/courses/ELEC/421)/[821 \(http://bulletin.unl.edu/courses/ELEC/821\)](http://bulletin.unl.edu/courses/ELEC/821).

Analysis of BJT's and MOSFET's from a first principle materials viewpoint. Static and dynamic analysis and characterization. Device fabrication processes.

Credit Hours:	3
Course Format:	Lecture 2, Lab 1
Course Delivery:	Classroom

ELEC

Principles of Semiconductor Materials and Devices I

421/821

[LINK \(http://bulletin.unl.edu/courses/ELEC/421\)](http://bulletin.unl.edu/courses/ELEC/421)

Prereqs:
PHYS 213 (<http://bulletin.unl.edu/courses/PHYS/213>).

This course is a prerequisite for: [ELEC 417](http://bulletin.unl.edu/courses/ELEC/417) (<http://bulletin.unl.edu/courses/ELEC/417>)

Introduction to semiconductor fundamentals, charge carrier concentration and carrier transport, energy bands, and recombination. PN junctions, static and dynamic, and special PN junction diode devices.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ELEC **Power Electronics**

428/828

[LINK \(http://bulletin.unl.edu/courses/ELEC/428\)](http://bulletin.unl.edu/courses/ELEC/428)

Prereqs:
ELEC 304 (<http://bulletin.unl.edu/courses/ELEC/304>) and **316** (<http://bulletin.unl.edu/courses/ELEC/316>).

Basic analysis and design of solid-state power electronic devices and converter circuitry.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ELEC **Wind Energy**

430/830

[LINK \(http://bulletin.unl.edu/courses/ELEC/430\)](http://bulletin.unl.edu/courses/ELEC/430)

Prereqs:
Senior standing or permission.

This broad multidisciplinary course will combine engineering principles of both the mechanical/aerodynamical and electrical components and systems, along with economic and environmental considerations for siting and public policy, to appropriately cover the relevant topics associated with all scales of wind energy implementations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ELEC **Bioinformatics**

452/852

[LINK \(http://bulletin.unl.edu/courses/ELEC/452\)](http://bulletin.unl.edu/courses/ELEC/452)

Prereqs:
Computer programming language and ELEC 305 (<http://bulletin.unl.edu/courses/ELEC/305>) or **IMSE 321** (<http://bulletin.unl.edu/courses/IMSE/321>) or **STAT 380** (<http://bulletin.unl.edu/courses/STAT/380>) or equivalent.

This course examines how information is organized in biological sequences such as DNA and proteins and will look at computational techniques which make use of this structure. During this class various biochemical processes that involve these sequences are studied to understand how these processes effect the structure of these sequences. In the process bioinformatics algorithms, tools, and techniques which are used to explore genomic and amino acid sequences are also introduced.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ELEC **Labview Programming**

460/860

[LINK \(http://bulletin.unl.edu/courses/ELEC/460\)](http://bulletin.unl.edu/courses/ELEC/460)

Prereqs:
Prior programming experience.

Labview as a programming language and for applications to acquire and analyze data, to access the network, control lab instruments, and for video and sound applications.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ELEC **Digital Systems**

[LINK \(http://bulletin.unl.edu/courses/ELEC/475\)](http://bulletin.unl.edu/courses/ELEC/475)

475/875

Prereqs:
[ELEC 370 \(http://bulletin.unl.edu/courses/ELEC/370\)](http://bulletin.unl.edu/courses/ELEC/370).

This course is a prerequisite for: [ELEC 479 \(http://bulletin.unl.edu/courses/ELEC/479\)](http://bulletin.unl.edu/courses/ELEC/479)

Synthesis using state machines; design of digital systems; micro programming in small controller design; hardware description language for design and timing analysis.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ELEC **Digital Systems Organization and Design**

479/879

[LINK \(http://bulletin.unl.edu/courses/ELEC/479\)](http://bulletin.unl.edu/courses/ELEC/479)

Prereqs:
[ELEC 475 \(http://bulletin.unl.edu/courses/ELEC/475/875\)](http://bulletin.unl.edu/courses/ELEC/475/875)
 [\(http://bulletin.unl.edu/courses/ELEC/875\)](http://bulletin.unl.edu/courses/ELEC/875).

Hardware development languages, hardware organization and realization, microprogramming, interrupt, intersystem communication, and peripheral interfacing.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ELEC **Introduction to Lasers and Laser Applications**

480/880

Crosslisted as *PHYS 480/880*

[LINK \(http://bulletin.unl.edu/courses/ELEC/480\)](http://bulletin.unl.edu/courses/ELEC/480)

Prereqs:
[PHYS 213 \(http://bulletin.unl.edu/courses/PHYS/213\)](http://bulletin.unl.edu/courses/PHYS/213).

Physics of electronic transition production stimulated emission of radiation. Threshold conditions for laser oscillation. Types of lasers and their applications in engineering.

Credit Hours:	3
Course Delivery:	Classroom

ELEC **Special Topics in Electrical Engineering IV**

498/898

[LINK \(http://bulletin.unl.edu/courses/ELEC/498\)](http://bulletin.unl.edu/courses/ELEC/498)

Prereqs:
Permission.

[ELEC 498 \(http://bulletin.unl.edu/courses/ELEC/498/898\)](http://bulletin.unl.edu/courses/ELEC/498/898)
 [\(http://bulletin.unl.edu/courses/ELEC/898\)](http://bulletin.unl.edu/courses/ELEC/898) is offered as the need arises for electrical engineering topics for fourth-year and graduate students not covered in other courses.

Credit Hours:	1-6
Max credits per degree:	18
Course Format:	Lecture
Course Delivery:	Classroom

ELEC **Electronic Instrumentation**

800

[LINK \(http://bulletin.unl.edu/courses/ELEC/800\)](http://bulletin.unl.edu/courses/ELEC/800)

Applications of analog and digital devices to electronic instrumentation are studied. Transducer, instrumentation amplifiers, mechanical and solid-state switches, data acquisition systems, phase-lock loops and modulation techniques. Demonstrations with working circuits and systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC **Power Systems Analysis**

806

[LINK \(http://bulletin.unl.edu/courses/ELEC/806\)](http://bulletin.unl.edu/courses/ELEC/806)

Prereqs:
[ELEC 838 \(http://bulletin.unl.edu/courses/ELEC/838\)](http://bulletin.unl.edu/courses/ELEC/838)

This course is a prerequisite for: [ELEC 957 \(http://bulletin.unl.edu/courses/ELEC/957\)](http://bulletin.unl.edu/courses/ELEC/957)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Symmetrical components and fault calculations, power system stability, generator modeling (circuit view point), voltage control system, high-voltage DC transmission, and system protection.

ELEC
807

Power Systems Planning

[LINK \(http://bulletin.unl.edu/courses/ELEC/807\)](http://bulletin.unl.edu/courses/ELEC/807)

Prereqs:
[ELEC 305 \(http://bulletin.unl.edu/courses/ELEC/305\)](http://bulletin.unl.edu/courses/ELEC/305)

Economic evaluation, load forecasting, generation planning, transmission planning, production simulation, power plant reliability characteristics and generation system reliability.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
808

Engineering Electromagnetics

[LINK \(http://bulletin.unl.edu/courses/ELEC/808\)](http://bulletin.unl.edu/courses/ELEC/808)

Prereqs:
[ELEC 306 \(http://bulletin.unl.edu/courses/ELEC/306\)](http://bulletin.unl.edu/courses/ELEC/306)

Laboratory experiments. Applied electromagnetics in digital electronics and communication. Quasistatic electric and magnetic fields (magnetic circuits and electromechanical conversion); guided waves (metallic waveguides and optical fibers); radiation and antennas (line and aperture antennas and arrays).

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
810

Multivariate Random Processes

[LINK \(http://bulletin.unl.edu/courses/ELEC/810\)](http://bulletin.unl.edu/courses/ELEC/810)

Prereqs:
[ELEC 305 \(http://bulletin.unl.edu/courses/ELEC/305\)](http://bulletin.unl.edu/courses/ELEC/305)

This course is a prerequisite for: [ELEC 946 \(http://bulletin.unl.edu/courses/ELEC/946\)](http://bulletin.unl.edu/courses/ELEC/946)

Probability space, random vectors, multivariate distributions, moment generating functions, conditional expectations, discrete and continuous-time random processes, random process characterization and representation, linear systems with random inputs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
816

Materials and Devices for Computer Memory, Logic, and Display

[LINK \(http://bulletin.unl.edu/courses/ELEC/816\)](http://bulletin.unl.edu/courses/ELEC/816)

Prereqs:
[PHYS 212 \(http://bulletin.unl.edu/courses/PHYS/212\)](http://bulletin.unl.edu/courses/PHYS/212)

Survey of fundamentals and applications of devices used for logic, memory, and display. Magnetic, superconductive, semiconductive, and dielectric materials.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
820

Plasma Processing of Semiconductors

[LINK \(http://bulletin.unl.edu/courses/ELEC/820\)](http://bulletin.unl.edu/courses/ELEC/820)

Physics of plasmas and gas discharges developed. Basic collisional theory, the Boltzman equation and the concept of electron energy distributions. Results related to specific gas discharge systems used in semiconductor processing, such as sputtering, etching, and deposition systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

838**Introduction to Electric Power Engineering**[LINK \(http://bulletin.unl.edu/courses/ELEC/838\)](http://bulletin.unl.edu/courses/ELEC/838)**Prereqs:**[ELEC 216 \(http://bulletin.unl.edu/courses/ELEC/216\)](http://bulletin.unl.edu/courses/ELEC/216)

This course is a prerequisite for: [ELEC 806 \(http://bulletin.unl.edu/courses/ELEC/806\)](http://bulletin.unl.edu/courses/ELEC/806),
[ELEC 854 \(http://bulletin.unl.edu/courses/ELEC/854\)](http://bulletin.unl.edu/courses/ELEC/854)

Power systems principles, three phase circuits, transmission line parameters, transmission line modeling, transformers, per unit analysis, generator modeling, and power flow analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

842**Basic Analytical Techniques in Electrical Engineering**[LINK \(http://bulletin.unl.edu/courses/ELEC/842\)](http://bulletin.unl.edu/courses/ELEC/842)**Prereqs:**[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

Applications of partial differential equations, matrices, vector analysis, complex variables, and infinite series to problems in electrical engineering.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

844**Linear Control Systems**[LINK \(http://bulletin.unl.edu/courses/ELEC/844\)](http://bulletin.unl.edu/courses/ELEC/844)**Prereqs:**[ELEC 304 \(http://bulletin.unl.edu/courses/ELEC/304\)](http://bulletin.unl.edu/courses/ELEC/304)

Classical (transfer function) and modern (state variable) control techniques. Both time domain and frequency domain techniques. Traditional proportional, lead, lag, and PID compensators examined, as well as state variable feedback.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

854**Power Systems Operation and Control**[LINK \(http://bulletin.unl.edu/courses/ELEC/854\)](http://bulletin.unl.edu/courses/ELEC/854)**Prereqs:**[ELEC 838 \(http://bulletin.unl.edu/courses/ELEC/838\)](http://bulletin.unl.edu/courses/ELEC/838)

Characteristics and generating units. Control of generation, economic dispatch, transmission losses, unit commitment, generation with limited supply, hydrothermal coordination, and interchange evaluation and power pool.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

862**Communication Systems**[LINK \(http://bulletin.unl.edu/courses/ELEC/862\)](http://bulletin.unl.edu/courses/ELEC/862)**Prereqs:****or parallel:** [ELEC 305 \(http://bulletin.unl.edu/courses/ELEC/305\)](http://bulletin.unl.edu/courses/ELEC/305)

This course is a prerequisite for: [ELEC 864 \(http://bulletin.unl.edu/courses/ELEC/864\)](http://bulletin.unl.edu/courses/ELEC/864),
[ELEC 911 \(http://bulletin.unl.edu/courses/ELEC/911\)](http://bulletin.unl.edu/courses/ELEC/911)

Principles of modulation and demodulation, communication in the presence of noise. Introduction to signal sets and computer communication networks.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

863**Digital Signal Processing**[LINK \(http://bulletin.unl.edu/courses/ELEC/863\)](http://bulletin.unl.edu/courses/ELEC/863)

Prereqs:
[ELEC 304 \(http://bulletin.unl.edu/courses/ELEC/304\)](http://bulletin.unl.edu/courses/ELEC/304)

Discrete system analysis using Z-transforms. Analysis and design of digital filters. Discrete Fourier transforms.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ELEC **864** Digital Communication Systems

[LINK \(http://bulletin.unl.edu/courses/ELEC/864\)](http://bulletin.unl.edu/courses/ELEC/864)

Prereqs:
[ELEC 862 \(http://bulletin.unl.edu/courses/ELEC/862\)](http://bulletin.unl.edu/courses/ELEC/862)

This course is a prerequisite for: [ELEC 959 \(http://bulletin.unl.edu/courses/ELEC/959\)](http://bulletin.unl.edu/courses/ELEC/959)

Principles of digital transmission of information in the presence of noise. Design and analysis of baseband PAM transmission systems and various carrier systems including ASK, FSK, PSK.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ELEC **865** Introduction to Data Compression

[LINK \(http://bulletin.unl.edu/courses/ELEC/865\)](http://bulletin.unl.edu/courses/ELEC/865)

Prereqs:
[ELEC 305 \(http://bulletin.unl.edu/courses/ELEC/305\)](http://bulletin.unl.edu/courses/ELEC/305)

Introduction to the concepts of Information Theory and Redundancy removal. Simulation of various data compression schemes such as Delta Modulation, Differential Pulse Code Modulation, Transform Coding and Runlength Coding.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ELEC **867** Electromagnetic Theory and Applications

[LINK \(http://bulletin.unl.edu/courses/ELEC/867\)](http://bulletin.unl.edu/courses/ELEC/867)

Prereqs:
[ELEC 306 \(http://bulletin.unl.edu/courses/ELEC/306\)](http://bulletin.unl.edu/courses/ELEC/306)

This course is a prerequisite for: [ELEC 965 \(http://bulletin.unl.edu/courses/ELEC/965\)](http://bulletin.unl.edu/courses/ELEC/965)

Engineering application of Maxwell's equations. Fundamental Parameters of Antennas. Radiation, analysis and synthesis of antenna arrays. Aperture Antennas.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ELEC **868** Microwave Engineering

[LINK \(http://bulletin.unl.edu/courses/ELEC/868\)](http://bulletin.unl.edu/courses/ELEC/868)

Prereqs:
[ELEC 306 \(http://bulletin.unl.edu/courses/ELEC/306\)](http://bulletin.unl.edu/courses/ELEC/306)

Applications of active and passive devices to microwave systems. Impedance matching, resonators, and microwave antennas.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ELEC **869** Analog Integrated Circuits

[LINK \(http://bulletin.unl.edu/courses/ELEC/869\)](http://bulletin.unl.edu/courses/ELEC/869)

Prereqs:
[ELEC 361 \(http://bulletin.unl.edu/courses/ELEC/361\)](http://bulletin.unl.edu/courses/ELEC/361)

This course is a prerequisite for: [ELEC 913 \(http://bulletin.unl.edu/courses/ELEC/913\)](http://bulletin.unl.edu/courses/ELEC/913)

Analysis and design of analog integrated circuits both bipolar and MOS. Basic circuit elements such as differential pairs, current sources, active loads, output drivers studied and used in the design of more complex

Credit Hours: 3

Campus:

Course Delivery: Classroom

analog integrated circuits.

ELEC

870

Digital and Analog VLSI Design

[LINK \(http://bulletin.unl.edu/courses/ELEC/870\)](http://bulletin.unl.edu/courses/ELEC/870)

Prereqs:

[ELEC 316 \(http://bulletin.unl.edu/courses/ELEC/316\)](http://bulletin.unl.edu/courses/ELEC/316)

Introduction to VLSI design techniques for analog and digital circuits. Fabrication technology and device modeling. Design rules for integrated circuit layout. LSI design options with emphasis on the standard cell approach of digital and analog circuits. Lab experiments, computer simulation and layout exercises.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ELEC

879

Digital Systems Organization and Design

[LINK \(http://bulletin.unl.edu/courses/ELEC/879\)](http://bulletin.unl.edu/courses/ELEC/879)

Prereqs:

[ELEC 876 \(http://bulletin.unl.edu/courses/ELEC/876\)](http://bulletin.unl.edu/courses/ELEC/876)

Hardware development languages, hardware organization and realization, microprogramming, interrupt, intersystem communication, and peripheral interfacing.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ELEC

886

Applied Photonics

[LINK \(http://bulletin.unl.edu/courses/ELEC/886\)](http://bulletin.unl.edu/courses/ELEC/886)

Prereqs:

[ELEC 306 \(http://bulletin.unl.edu/courses/ELEC/306\)](http://bulletin.unl.edu/courses/ELEC/306) or permission

This course is a prerequisite for: [ELEC 986 \(http://bulletin.unl.edu/courses/ELEC/986\)](http://bulletin.unl.edu/courses/ELEC/986)

Introduction to the use of electromagnetic radiation for performing optical measurements in engineering applications. Basic electromagnetic theory and light interaction with matter are covered with corresponding laboratory experiments conducted.

Credit Hours: 3

Course Format: Lab 1, Lecture 2

Campus:

Course Delivery: Classroom

ELEC

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/ELEC/899\)](http://bulletin.unl.edu/courses/ELEC/899)

Prereqs:

Admission to masters degree program and permission of major adviser

P/N only.

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

ELEC

911

Communication Theory

[LINK \(http://bulletin.unl.edu/courses/ELEC/911\)](http://bulletin.unl.edu/courses/ELEC/911)

Prereqs:

[ELEC 862 \(http://bulletin.unl.edu/courses/ELEC/862\)](http://bulletin.unl.edu/courses/ELEC/862), and [864 \(http://bulletin.unl.edu/courses/ELEC/864\)](http://bulletin.unl.edu/courses/ELEC/864) or [810 \(http://bulletin.unl.edu/courses/ELEC/810\)](http://bulletin.unl.edu/courses/ELEC/810)

Applications of probability and statistics to signals and noise; correlation; sampling; shot noise; spectral analysis; Gaussian processes; filtering.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ELEC

Error Control Coding

[LINK \(http://bulletin.unl.edu/courses/ELEC/912\)](http://bulletin.unl.edu/courses/ELEC/912)

912**Prereqs:**

[ELEC 410 \(http://bulletin.unl.edu/courses/ELEC/410/\)](http://bulletin.unl.edu/courses/ELEC/410/) [810 \(http://bulletin.unl.edu/courses/ELEC/810/\)](http://bulletin.unl.edu/courses/ELEC/810/) and [464 \(http://bulletin.unl.edu/courses/ELEC/464/\)](http://bulletin.unl.edu/courses/ELEC/464/) [864 \(http://bulletin.unl.edu/courses/ELEC/864/\)](http://bulletin.unl.edu/courses/ELEC/864/), or permission

Fundamentals of error correction and detection in digital communication and storage systems. Linear and algebraic block codes; Hamming, BCH and Reed–Solomon codes; algebraic decoding techniques; structure and performance of convolutional codes, turbo codes, and trellis coded modulation; MAP, Viterbi, and sequential decoding techniques.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

913**Advanced Analog and Mixed–Signal Integrated Circuits**[LINK \(http://bulletin.unl.edu/courses/ELEC/913/\)](http://bulletin.unl.edu/courses/ELEC/913/)**Prereqs:**

[ELEC 869 \(http://bulletin.unl.edu/courses/ELEC/869/\)](http://bulletin.unl.edu/courses/ELEC/869/) and permission

Advanced current mirrors and op–amps. Comparators and sample/hold (S/H) circuits. Band–gap reference circuits. Trans–linear circuits and analog multipliers. Voltage controlled oscillators. Operational trans–conductance amplifiers (OTA's). Switched capacitor circuits. Data converters. Non–linearity, mismatch, and short–channel effects. Continuous time domain integrated filters. Current conveyors. Phase locked loops. Analog CAD.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ELEC

915**Adaptive Signal Processing**[LINK \(http://bulletin.unl.edu/courses/ELEC/915/\)](http://bulletin.unl.edu/courses/ELEC/915/)**Prereqs:**

[ELEC 410 \(http://bulletin.unl.edu/courses/ELEC/410/\)](http://bulletin.unl.edu/courses/ELEC/410/) [810 \(http://bulletin.unl.edu/courses/ELEC/810/\)](http://bulletin.unl.edu/courses/ELEC/810/), [463 \(http://bulletin.unl.edu/courses/ELEC/463/\)](http://bulletin.unl.edu/courses/ELEC/463/) [863 \(http://bulletin.unl.edu/courses/ELEC/863/\)](http://bulletin.unl.edu/courses/ELEC/863/), and permission

Adaptive filtering algorithms, frequency and transform domain adaptive filters, and simulation and critical evaluation of adaptive signal processing for real world applications.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ELEC

946**Optimal Filtering, Estimation and Prediction**[LINK \(http://bulletin.unl.edu/courses/ELEC/946/\)](http://bulletin.unl.edu/courses/ELEC/946/)**Prereqs:**

[ELEC 810 \(http://bulletin.unl.edu/courses/ELEC/810/\)](http://bulletin.unl.edu/courses/ELEC/810/) and [851 \(http://bulletin.unl.edu/courses/ELEC/851/\)](http://bulletin.unl.edu/courses/ELEC/851/) or permission

Techniques for optimally extracting information about the past, present, or future status of a dynamic system from noise–corrupted measurements on that system.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

957**Advanced Computer Methods in Power System Analysis**[LINK \(http://bulletin.unl.edu/courses/ELEC/957/\)](http://bulletin.unl.edu/courses/ELEC/957/)**Prereqs:**

[ELEC 806 \(http://bulletin.unl.edu/courses/ELEC/806/\)](http://bulletin.unl.edu/courses/ELEC/806/)

Power system matrices, sparsity techniques, network equivalents, contingency analysis, power flow optimization, state estimation, and power system restructuring examined via computer methods.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
959

Wireless Communications

[LINK \(http://bulletin.unl.edu/courses/ELEC/959\)](http://bulletin.unl.edu/courses/ELEC/959)

Prereqs:
[ELEC 864 \(http://bulletin.unl.edu/courses/ELEC/864\)](http://bulletin.unl.edu/courses/ELEC/864) and permission

Principles of wireless communications, including: description of the wireless channel characteristics; ultimate performance limits of wireless systems; performance analysis of digital modulation techniques over wireless channels; diversity techniques; adaptive modulation; multiple-antenna communications; multi-carrier modulation; and multi-user wireless communications.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ELEC
960

Solid-State Devices

[LINK \(http://bulletin.unl.edu/courses/ELEC/960\)](http://bulletin.unl.edu/courses/ELEC/960)

Prereqs:
[ELEC 315 \(http://bulletin.unl.edu/courses/ELEC/315\)](http://bulletin.unl.edu/courses/ELEC/315) or equivalent

Gallium arsenide and silicon devices. Device properties based on structure and physical properties of the materials.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
965

Passive Microwave Components,

[LINK \(http://bulletin.unl.edu/courses/ELEC/965\)](http://bulletin.unl.edu/courses/ELEC/965)

Prereqs:
[ELEC 867 \(http://bulletin.unl.edu/courses/ELEC/867\)](http://bulletin.unl.edu/courses/ELEC/867) or [868 \(http://bulletin.unl.edu/courses/ELEC/868\)](http://bulletin.unl.edu/courses/ELEC/868)

Application of Maxwell's Equations to the analysis of waveguides, resonant cavities, filters and other passive microwave devices.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
967

Introduction to Quantum Electronics

[LINK \(http://bulletin.unl.edu/courses/ELEC/967\)](http://bulletin.unl.edu/courses/ELEC/967)

This course is a prerequisite for: [ELEC 968 \(http://bulletin.unl.edu/courses/ELEC/968\)](http://bulletin.unl.edu/courses/ELEC/968), [ELEC 975 \(http://bulletin.unl.edu/courses/ELEC/975\)](http://bulletin.unl.edu/courses/ELEC/975)

Introduction to the quantum aspects of electron devices.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
968

Electron Theory of Solids I

[LINK \(http://bulletin.unl.edu/courses/ELEC/968\)](http://bulletin.unl.edu/courses/ELEC/968)

Prereqs:
[ELEC 967 \(http://bulletin.unl.edu/courses/ELEC/967\)](http://bulletin.unl.edu/courses/ELEC/967) or permission

Quantitative development of the fundamentals of the quantum-mechanical theory of electrons in solids.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC
971

Seminar

[LINK \(http://bulletin.unl.edu/courses/ELEC/971\)](http://bulletin.unl.edu/courses/ELEC/971)

Credit Hours:	1-12
Campus:	
Course Delivery:	Classroom

ELEC

975

Optical Properties of Materials[LINK \(http://bulletin.unl.edu/courses/ELEC/975\)](http://bulletin.unl.edu/courses/ELEC/975)**Prereqs:**

ELEC 967 (<http://bulletin.unl.edu/courses/ELEC/967>), equivalent, or permission

Quantum mechanical description of the optical properties of solids (complex refractive index and its dispersion, effects of electric and magnetic fields, temperature, stress; additional special topics as desired).

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

986

Optoelectronics[LINK \(http://bulletin.unl.edu/courses/ELEC/986\)](http://bulletin.unl.edu/courses/ELEC/986)**Prereqs:**

ELEC 886 (<http://bulletin.unl.edu/courses/ELEC/886>)

Modern phenomena associated with optoelectronics. Electro-optical effect such as Pockel effect, Kerr effect, and nonlinear optical phenomena. Material and devices used in modern communications, femtosecond lasers, and optical computer systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ELEC

991

Independent Study[LINK \(http://bulletin.unl.edu/courses/ELEC/991\)](http://bulletin.unl.edu/courses/ELEC/991)**Prereqs:**

Permission

Selected topic under the direction and guidance of a faculty member.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ELEC

996

Topics in Electrical Engineering[LINK \(http://bulletin.unl.edu/courses/ELEC/996\)](http://bulletin.unl.edu/courses/ELEC/996)**Prereqs:**

Permission

Selected topics in electrical engineering.

Credit Hours:	3
Max credits per degree:	24
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ELEC

999

Doctoral Dissertation[LINK \(http://bulletin.unl.edu/courses/ELEC/999\)](http://bulletin.unl.edu/courses/ELEC/999)**Prereqs:**

Admission to doctoral degree program and permission of supervisory committee chair

P/N only.

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

PHYS

422/822

Introduction to Physics and Chemistry of Solids

Crosslisted as *ELEC 422/822*

[LINK \(http://bulletin.unl.edu/courses/PHYS/422\)](http://bulletin.unl.edu/courses/PHYS/422)**Prereqs:**

PHYS 213 (<http://bulletin.unl.edu/courses/PHYS/213>) or **CHEM 481** (<http://bulletin.unl.edu/courses/CHEM/481>)/**881** (<http://bulletin.unl.edu/courses/CHEM/881>), **MATH 220** (<http://bulletin.unl.edu/courses/MATH/220>)/**820**

Credit Hours:	3
Course Delivery:	Classroom

<http://bulletin.unl.edu/courses/MATH/820>) or [221](http://bulletin.unl.edu/courses/MATH/221)
(<http://bulletin.unl.edu/courses/MATH/221>)/[821](http://bulletin.unl.edu/courses/MATH/821)
(<http://bulletin.unl.edu/courses/MATH/821>), or permission.

Introduction to structural, thermal, electrical, and magnetic properties of solids, based on concepts of atomic structure, chemical bonding in molecules, and electron states in solids. Principles underlying molecular design of materials and solid-state devices.

Courses for ENGR (ENGR)

ENGR **856** History of Modern Technology [LINK \(http://bulletin.unl.edu/courses/ENGR/856\)](http://bulletin.unl.edu/courses/ENGR/856)

This course is not to be used for graduate credit in engineering and technology. Survey of the developments in the various types of technology with emphasis on the time period after 1750. Social and economic impacts of technological developments are considered. In-depth studies of three important developments in different fields of technology are undertaken.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGR **8690** Technology, Science and Civilization [LINK \(http://bulletin.unl.edu/courses/ENGR/8690\)](http://bulletin.unl.edu/courses/ENGR/8690)

Prereqs:
Permission

Offered on Omaha Campus. Development of technology as a trigger of change upon humankind, from the earliest tools of Homo Habilis to the advent of the radio telescope in exploring the creation of the universe. Traces the paths from early science to development of the sciences and technologies that will dominate the new millennium.

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

MECH **401/801** Elements of Nuclear Engineering [LINK \(http://bulletin.unl.edu/courses/MECH/401\)](http://bulletin.unl.edu/courses/MECH/401) Crosslisted as *ENGR 401*

Prereqs:
[ENGR 300 \(http://bulletin.unl.edu/courses/ENGR/300\)](http://bulletin.unl.edu/courses/ENGR/300) or [301](http://bulletin.unl.edu/courses/ENGR/301)
(<http://bulletin.unl.edu/courses/ENGR/301>) or [310](http://bulletin.unl.edu/courses/ENGR/310)
(<http://bulletin.unl.edu/courses/ENGR/310>); [MATH 208](http://bulletin.unl.edu/courses/MATH/208)
(<http://bulletin.unl.edu/courses/MATH/208>)/[208H](http://bulletin.unl.edu/courses/MATH/208H)
(<http://bulletin.unl.edu/courses/MATH/208H>); and [PHYS 212](http://bulletin.unl.edu/courses/PHYS/212)
(<http://bulletin.unl.edu/courses/PHYS/212>)/[212H](http://bulletin.unl.edu/courses/PHYS/212H)
(<http://bulletin.unl.edu/courses/PHYS/212H>).

Survey of nuclear engineering concepts and applications. Nuclear reactions, radioactivity, radiation interaction with matter, reactor physics, risk and dose assessment, applications in medicine, industry, agriculture, and research.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Courses for ENGM (ENGM)

ENGM **480/880** Numerical Methods in Engineering [LINK \(http://bulletin.unl.edu/courses/ENGM/480\)](http://bulletin.unl.edu/courses/ENGM/480)

Prereqs:
[MATH 221 \(http://bulletin.unl.edu/courses/MATH/221\)](http://bulletin.unl.edu/courses/MATH/221)/821
(<http://bulletin.unl.edu/courses/MATH/821>); and Computer
Programming. Linear Algebra recommended.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

This course is a prerequisite for: [IMSE 888 \(http://bulletin.unl.edu/courses/IMSE/888\)](http://bulletin.unl.edu/courses/IMSE/888),
[CHME 896 \(http://bulletin.unl.edu/courses/CHME/896\)](http://bulletin.unl.edu/courses/CHME/896)

Credit towards the degree cannot be earned in both CSCE/MATH 340 (<http://bulletin.unl.edu/courses/MATH/340>)/840 (<http://bulletin.unl.edu/courses/MATH/840>) and ENGM 480 (<http://bulletin.unl.edu/courses/ENGM/480>)/880 (<http://bulletin.unl.edu/courses/ENGM/880>).

Numerical algorithms and their convergence properties in: solving nonlinear equations; direct and iterative schemes for linear systems of equations; eigenvalue problems; polynomial and spline interpolation; curve fitting; numerical integration and differentiation; initial and boundary value problems for Ordinary Differential Equations (ODEs) and systems of ODEs with applications to engineering; finite difference methods for partial differential equations (potential problems, heat-equation, wave-equation).

ENGM **801** Analytical Methods in Engineering I

[LINK \(http://bulletin.unl.edu/courses/ENGM/801\)](http://bulletin.unl.edu/courses/ENGM/801)

Basic topics in real analysis and linear algebra with examples of applications from diverse branches of engineering and applied physics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM **802** Analytical Methods in Engineering II

[LINK \(http://bulletin.unl.edu/courses/ENGM/802\)](http://bulletin.unl.edu/courses/ENGM/802)

Prereqs:
ENGM *801 or permission

Continuation of ENGM *801 topics in complex analysis, linear algebra, ordinary and partial differential equations, and other areas of applied mathematics. Examples of applications from diverse branches of engineering and applied physics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM **843** Introduction to Piezoelectricity with Applications

[LINK \(http://bulletin.unl.edu/courses/ENGM/843\)](http://bulletin.unl.edu/courses/ENGM/843)

Prereqs:
ENGM 325 (<http://bulletin.unl.edu/courses/ENGM/325>), 373 (<http://bulletin.unl.edu/courses/ENGM/373>), or equivalent, or permission

Electrostatics, equations of piezoelectricity, static solutions, propagation of plane waves, waves in plates, surface waves, equations for piezoelectric rods and plates in extension and flexure, finite element formulation, finite element analysis of static, time-harmonic, and transient problems with applications in smart structures and piezoelectric devices.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM **847** Advanced Dynamics

[LINK \(http://bulletin.unl.edu/courses/ENGM/847\)](http://bulletin.unl.edu/courses/ENGM/847)

Prereqs:
ENGM 373 (<http://bulletin.unl.edu/courses/ENGM/373>) and MATH 821 (<http://bulletin.unl.edu/courses/MATH/821>)

This course is a prerequisite for: [ENGM 915 \(http://bulletin.unl.edu/courses/ENGM/915\)](http://bulletin.unl.edu/courses/ENGM/915),
[ENGM 919 \(http://bulletin.unl.edu/courses/ENGM/919\)](http://bulletin.unl.edu/courses/ENGM/919)

Particle dynamics using Newton's laws, energy principles, momentum principles. Rigid body dynamics using Euler's equations and Lagrange's equations. Variable mass systems. Gyroscopic motion.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Prereqs:

[ENGM 325 \(http://bulletin.unl.edu/courses/ENGM/325\)](http://bulletin.unl.edu/courses/ENGM/325) or [373 \(http://bulletin.unl.edu/courses/ENGM/373\)](http://bulletin.unl.edu/courses/ENGM/373)

This course is a prerequisite for: [ENGM 910 \(http://bulletin.unl.edu/courses/ENGM/910\)](http://bulletin.unl.edu/courses/ENGM/910), [ENGM 916 \(http://bulletin.unl.edu/courses/ENGM/916\)](http://bulletin.unl.edu/courses/ENGM/916), [ENGM 922 \(http://bulletin.unl.edu/courses/ENGM/922\)](http://bulletin.unl.edu/courses/ENGM/922), [ENGM 925 \(http://bulletin.unl.edu/courses/ENGM/925\)](http://bulletin.unl.edu/courses/ENGM/925), [ENGM 930 \(http://bulletin.unl.edu/courses/ENGM/930\)](http://bulletin.unl.edu/courses/ENGM/930), [ENGM 940 \(http://bulletin.unl.edu/courses/ENGM/940\)](http://bulletin.unl.edu/courses/ENGM/940), [ENGM 941 \(http://bulletin.unl.edu/courses/ENGM/941\)](http://bulletin.unl.edu/courses/ENGM/941), [ENGM 952 \(http://bulletin.unl.edu/courses/ENGM/952\)](http://bulletin.unl.edu/courses/ENGM/952)

Stresses and strains at a point. Theories of failure. Thick-walled pressure vessels and spinning discs. Torsion of noncircular sections. Torsion of thin-walled sections, open, closed, and multicelled. Bending of unsymmetrical sections. Cross shear and shear center. Curved beams. Introduction to elastic energy methods.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Prereqs:

[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821), [ENGM 325 \(http://bulletin.unl.edu/courses/ENGM/325\)](http://bulletin.unl.edu/courses/ENGM/325), [373 \(http://bulletin.unl.edu/courses/ENGM/373\)](http://bulletin.unl.edu/courses/ENGM/373)

Basic concepts of continuum modeling. Development of models and solutions to various mechanical thermal and electrical systems. Thermo-mechanical and electro-mechanical coupling effects. Differential equations, dimensional methods and similarity.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Crosslisted as *CIVE 851*

Prereqs:

[ENGM 325 \(http://bulletin.unl.edu/courses/ENGM/325\)](http://bulletin.unl.edu/courses/ENGM/325) and [ENGM 880 \(http://bulletin.unl.edu/courses/ENGM/880\)](http://bulletin.unl.edu/courses/ENGM/880) or permission

This course is a prerequisite for: [ENGM 951 \(http://bulletin.unl.edu/courses/ENGM/951\)](http://bulletin.unl.edu/courses/ENGM/951)

Matrix methods of analysis. The finite element stiffness method. Computer programs. Applications to structures and soils. Introduction to finite element analysis of fluid flow.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Prereqs:

[ENGM 325 \(http://bulletin.unl.edu/courses/ENGM/325\)](http://bulletin.unl.edu/courses/ENGM/325)

Investigations of the basic theories and techniques associated with the analysis of stress using mechanical strain gages, electric strain gages, brittle lacquer, photoelasticity and membrane analogy.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

Prereqs:

Credit Hours:	3
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ENGM 373 (<http://bulletin.unl.edu/courses/ENGM/373>) and **MATH 821** (<http://bulletin.unl.edu/courses/MATH/821>)

Variational principles, Lagranges' equation. Equations of motion for multi-degree of freedom systems. Free vibration eigenvalue problem: modal analysis. Forced vibrations: general solutions, resonance, effect of damping, and superposition. Vibrations of continuous systems: vibrations frequencies and mode shapes for bars, membranes, beams, and plates. Experimental methods and techniques.

Campus:
Course Delivery: Classroom

ENGM **891** **Special Topics in Engineering Mechanics**

[LINK \(http://bulletin.unl.edu/courses/ENGM/891\)](http://bulletin.unl.edu/courses/ENGM/891)

Prereqs:
Permission

See current Schedule of Classes for offerings Treatment of special topics in engineering mechanics by experimental computational and/or theoretical methods. Topic varies from term to term.

Credit Hours: 1-6
Max credits per degree: 6
Course Format: Lecture
Campus:
Course Delivery: Classroom

ENGM **899** **Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/ENGM/899\)](http://bulletin.unl.edu/courses/ENGM/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10
Campus:
Course Delivery: Classroom

ENGM **910** **Continuum Mechanics**

[LINK \(http://bulletin.unl.edu/courses/ENGM/910\)](http://bulletin.unl.edu/courses/ENGM/910)

Prereqs:
ENGM 848 (<http://bulletin.unl.edu/courses/ENGM/848>) and permission

The continuum. Geometrical foundations of continuum mechanics. Rectilinear and curvilinear frames. Elements of tensor analysis. Analysis of stress. Analysis of strain. Equations of motion. Constitutive equations. Fundamental laws. Applications to deformable systems.

Credit Hours: 3
Campus:
Course Delivery: Classroom

ENGM **915** **Stress Waves in Solids**

[LINK \(http://bulletin.unl.edu/courses/ENGM/915\)](http://bulletin.unl.edu/courses/ENGM/915)

Prereqs:
ENGM 847 (<http://bulletin.unl.edu/courses/ENGM/847>), **848** (<http://bulletin.unl.edu/courses/ENGM/848>), or permission

Waves in rods, beams, strings, and membranes. Sound waves in air. Dilational and distortional waves. Reflection and refraction of waves. Rayleigh surface waves. Love waves. Applications of transform theory and the method of stationary phase to wave analysis. Waves in anisotropic and viscoelastic media.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

ENGM **916** **Theory of Plates and Shells I**

[LINK \(http://bulletin.unl.edu/courses/ENGM/916\)](http://bulletin.unl.edu/courses/ENGM/916)

Prereqs:
ENGM 848 (<http://bulletin.unl.edu/courses/ENGM/848>) and **MATH 821** (<http://bulletin.unl.edu/courses/MATH/821>)

This course is a prerequisite for: [ENGM 917 \(http://bulletin.unl.edu/courses/ENGM/917\)](http://bulletin.unl.edu/courses/ENGM/917)

Credit Hours: 3
Campus:
Course Delivery: Classroom

Basic equations for the bending and stretching of thin plates with small deformations. General theory of deformation of thin shells with small deflections. Large deformations theories of plates and shells. Effect of edge conditions.

ENGM

917

Theory of Plates and Shells II

[LINK \(http://bulletin.unl.edu/courses/ENGM/917\)](http://bulletin.unl.edu/courses/ENGM/917)

Prereqs:

[ENGM 916 \(http://bulletin.unl.edu/courses/ENGM/916\)](http://bulletin.unl.edu/courses/ENGM/916)

[ENGM 916 \(http://bulletin.unl.edu/courses/ENGM/916\)](http://bulletin.unl.edu/courses/ENGM/916) continued. Large deflection shell theory. Critical examination of effects of boundary conditions. Additional topics from folded plates, orthotropic plates and shells, sandwich plates and shells, use of complex transformations, etc.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGM

918

Fundamentals of Finite Elements

[LINK \(http://bulletin.unl.edu/courses/ENGM/918\)](http://bulletin.unl.edu/courses/ENGM/918)

Derivation and implementation of the finite element method. Introduction to the theory of finite element methods for elliptic boundary-value problems. Applications to time-independent physical phenomena (e.g., deformation of elastic bodies, heat conduction, steady-state fluid flow, electrostatics, flow through porous media). Basic coding techniques. A basic understanding of ordinary differential equations and matrix algebra as well as some programming skills are assumed.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGM

919

Nonlinear Mechanics

[LINK \(http://bulletin.unl.edu/courses/ENGM/919\)](http://bulletin.unl.edu/courses/ENGM/919)

Prereqs:

[ENGM 847 \(http://bulletin.unl.edu/courses/ENGM/847\)](http://bulletin.unl.edu/courses/ENGM/847), [848 \(http://bulletin.unl.edu/courses/ENGM/848\)](http://bulletin.unl.edu/courses/ENGM/848), or permission

Physical systems in solid mechanics which lead to nonlinear differential equations. Graphical, numerical, and exact solutions of the governing differential equations. Physical interpretation of the solution.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGM

920

Theory of Elastic Stability

[LINK \(http://bulletin.unl.edu/courses/ENGM/920\)](http://bulletin.unl.edu/courses/ENGM/920)

Prereqs:

[ENGM 325 \(http://bulletin.unl.edu/courses/ENGM/325\)](http://bulletin.unl.edu/courses/ENGM/325) or [373 \(http://bulletin.unl.edu/courses/ENGM/373\)](http://bulletin.unl.edu/courses/ENGM/373) and [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

Lateral buckling of beams; failure of columns; bending and buckling of thin plates and shells. Consideration of classical and modern theories.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM

922

Theory of Elasticity I

[LINK \(http://bulletin.unl.edu/courses/ENGM/922\)](http://bulletin.unl.edu/courses/ENGM/922)

Prereqs:

[ENGM 848 \(http://bulletin.unl.edu/courses/ENGM/848\)](http://bulletin.unl.edu/courses/ENGM/848) and [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

This course is a prerequisite for: [ENGM 923 \(http://bulletin.unl.edu/courses/ENGM/923\)](http://bulletin.unl.edu/courses/ENGM/923), [ENGM 942 \(http://bulletin.unl.edu/courses/ENGM/942\)](http://bulletin.unl.edu/courses/ENGM/942)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Plane stress and strain. Solution of two-dimensional problems by polynomials. Two-dimensional problems in polar coordinates. Triaxial stress and strain. Torsion of noncircular cross section. Bending of prismatical bars. Hydrodynamical analogies.

ENGM
923 Theory of Elasticity II

[LINK \(http://bulletin.unl.edu/courses/ENGM/923\)](http://bulletin.unl.edu/courses/ENGM/923)

Prereqs:
[ENGM 922 \(http://bulletin.unl.edu/courses/ENGM/922\)](http://bulletin.unl.edu/courses/ENGM/922)

[ENGM 922 \(http://bulletin.unl.edu/courses/ENGM/922\)](http://bulletin.unl.edu/courses/ENGM/922) continued. Foundation of the theory of large deformation. Equations of linear elasticity. Complex representation of the general solution of the equations of plane theory of elasticity. Conformal mapping. Solutions of problems in three-dimensional elasticity in terms of potential functions. Axially symmetric problems. Variational methods.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM
925 Viscoelasticity

[LINK \(http://bulletin.unl.edu/courses/ENGM/925\)](http://bulletin.unl.edu/courses/ENGM/925)

Prereqs:
[ENGM 848 \(http://bulletin.unl.edu/courses/ENGM/848\)](http://bulletin.unl.edu/courses/ENGM/848) or [910 \(http://bulletin.unl.edu/courses/ENGM/910\)](http://bulletin.unl.edu/courses/ENGM/910), and [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) or [822 \(http://bulletin.unl.edu/courses/MATH/822\)](http://bulletin.unl.edu/courses/MATH/822); or permission

Introduction to linear and nonlinear viscoelastic material behavior. One dimensional response. Linearity of material response. Quasi-static and dynamic problems. Time-temperature superposition. Viscoelastic beams. Multidimensional response. Nonlinear response.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM
930 Mechanics of Composite Materials

[LINK \(http://bulletin.unl.edu/courses/ENGM/930\)](http://bulletin.unl.edu/courses/ENGM/930)

Prereqs:
[ENGM 848 \(http://bulletin.unl.edu/courses/ENGM/848\)](http://bulletin.unl.edu/courses/ENGM/848) or permission

Introduction to composite materials. Properties of an anisotropic lamina. Laminated composites. Failure theories. Analysis of composite structures.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGM
940 Fracture Mechanics

[LINK \(http://bulletin.unl.edu/courses/ENGM/940\)](http://bulletin.unl.edu/courses/ENGM/940)

Prereqs:
[ENGM 848 \(http://bulletin.unl.edu/courses/ENGM/848\)](http://bulletin.unl.edu/courses/ENGM/848) or permission

Modes of failure. Elastic stress field near cracks. Theories of brittle fracture. Elastic fracture mechanics. Elastic-plastic analysis of crack extension. Fracture toughness testing.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM
941 Mechanics of Dislocations and Cracks

[LINK \(http://bulletin.unl.edu/courses/ENGM/941\)](http://bulletin.unl.edu/courses/ENGM/941)

Prereqs:
[ENGM 848 \(http://bulletin.unl.edu/courses/ENGM/848\)](http://bulletin.unl.edu/courses/ENGM/848) or permission

Mathematical theory of straight dislocations in isotropic and anisotropic elastic media. Dislocations on and near an interface. Dislocation interactions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Discrete and continuously distributed dislocations. Applications to mechanics of materials: grain boundaries and dislocation pile-ups. Applications to fracture mechanics: Griffith-Inglish crack, Zener-Stroh-Koehler crack, Bilby-Cottrell-Swinden-Dugdale crack.

ENGM

942

Theory of Plasticity

[LINK \(http://bulletin.unl.edu/courses/ENGM/942\)](http://bulletin.unl.edu/courses/ENGM/942)

Prereqs:
[ENGM 922 \(http://bulletin.unl.edu/courses/ENGM/922\)](http://bulletin.unl.edu/courses/ENGM/922)

Basic concepts of plasticity. Yield conditions and yield surfaces. Torsion of cylindrical bars and Saint Venant-Mises and Prandtl-Reuss theories. General theory of plane strain and shear lines. Steady and pseudo-steady plastic flow. Extremum principles. Engineering applications.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM

951

Advanced Topics in Finite Element Methods

[LINK \(http://bulletin.unl.edu/courses/ENGM/951\)](http://bulletin.unl.edu/courses/ENGM/951)

Prereqs:
[ENGM 851 \(http://bulletin.unl.edu/courses/ENGM/851\)](http://bulletin.unl.edu/courses/ENGM/851) or [918 \(http://bulletin.unl.edu/courses/ENGM/918\)](http://bulletin.unl.edu/courses/ENGM/918), or permission

Theory and application of finite element methods. Topic varies with interest of instructor and may include: finite elements for the analysis of fracture; mixed variational formulations; hybrid stress elements; plasticity; non-linear elasticity; large deformations of structures; plate and shell elements; transverse shear effects in beams, plates and shells; "locking" phenomena; treatment of singularities; dynamics of large systems; "enhanced" strain methods; methods for solving non-linear algebraic systems; architecture of computer codes for non-linear finite element analysis; and treatment of constraints arising in nearly incompressible material models.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM

952

Experimental Stress Analysis II

[LINK \(http://bulletin.unl.edu/courses/ENGM/952\)](http://bulletin.unl.edu/courses/ENGM/952)

Prereqs:
[ENGM 848 \(http://bulletin.unl.edu/courses/ENGM/848\)](http://bulletin.unl.edu/courses/ENGM/848) and [852 \(http://bulletin.unl.edu/courses/ENGM/852\)](http://bulletin.unl.edu/courses/ENGM/852)

Surface strains and their measurement, principally by bonded wire resistance strain gages. Static and dynamic measurements using both oscilloscope and direct writing oscillograph, associated electrical circuits. Use of brittle coating in conjunction with strain gages. Evaluation of stresses from strain data.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

ENGM

975

Advanced Vibrations

[LINK \(http://bulletin.unl.edu/courses/ENGM/975\)](http://bulletin.unl.edu/courses/ENGM/975)

Prereqs:
[ENGM *875](#)

Variational mechanics, Hamilton's principle, and energy formulations for linearly elastic bodies. Eigenvalue and boundary value problems. Non-self adjoint systems. Approximate methods: Ritz and Galerkin. Gyroscopic systems. Nonconservative systems. Perturbation theory for the eigenvalue problem. Dynamics of constrained systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGM

991

Advanced Investigations in Engineering Mechanics

[LINK \(http://bulletin.unl.edu/courses/ENGM/991\)](http://bulletin.unl.edu/courses/ENGM/991)

Prereqs:
Permission

See current Schedule of Classes for offering. Treatment of advanced topics in engineering mechanics by experimental, computational, and/or theoretical methods. Topic varies from term to term.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

ENGM
996 Seminar in Engineering Mechanics

[LINK \(http://bulletin.unl.edu/courses/ENGM/996\)](http://bulletin.unl.edu/courses/ENGM/996)

Prereqs:
Permission

Pass/No Pass only. Only 1 credit hour of [ENGM 996](http://bulletin.unl.edu/courses/ENGM/996) (<http://bulletin.unl.edu/courses/ENGM/996>) will count towards the MS degree. Presentation and discussion of topics in the various branches of engineering mechanics.

Credit Hours:	1
Max credits per degree:	24
Campus:	
Course Delivery:	Classroom

ENGM
999 Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/ENGM/999\)](http://bulletin.unl.edu/courses/ENGM/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

IMSE
888 Nonlinear Optimization in Engineering

Crosslisted as *ENGM 888*

[LINK \(http://bulletin.unl.edu/courses/IMSE/888\)](http://bulletin.unl.edu/courses/IMSE/888)

Prereqs:
[MATH 208](http://bulletin.unl.edu/courses/MATH/208) (<http://bulletin.unl.edu/courses/MATH/208>)/[208H](http://bulletin.unl.edu/courses/MATH/208H) (<http://bulletin.unl.edu/courses/MATH/208H>) and [314](http://bulletin.unl.edu/courses/MATH/314) (<http://bulletin.unl.edu/courses/MATH/314>)/[814](http://bulletin.unl.edu/courses/MATH/814) (<http://bulletin.unl.edu/courses/MATH/814>); [ENGM 480](http://bulletin.unl.edu/courses/ENGM/480) (<http://bulletin.unl.edu/courses/ENGM/480>)/[880](http://bulletin.unl.edu/courses/ENGM/880) (<http://bulletin.unl.edu/courses/ENGM/880>); and permission

Nonlinear optimization using gradient-based and evolutionary methods. Constrained and unconstrained nonlinear optimization, Karush-Kuhn-Tucker conditions, penalty and barrier methods. Applications to optimal design in sciences and engineering.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

0
Courses for ENVE (ENVE)

ENVE
890 Practicum in Environmental Engineering

[LINK \(http://bulletin.unl.edu/courses/ENVE/890\)](http://bulletin.unl.edu/courses/ENVE/890)

Prereqs:
Permission

ENVE 890 (<http://bulletin.unl.edu/courses/ENVE/890>) requires, in advance, the approval of the practicum and the written documentation of how demonstrated creativity will occur in the practicum. At the completion of the practicum, a written report of the creative accomplishments is required.

Problems in engineering or management in a non-academic experience within the private sector or a government agency. Research, design, analysis, and testing.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Field
Campus:	
Course Delivery:	Classroom

ENVE
898

Special Problems in Environmental Engineering

[LINK \(http://bulletin.unl.edu/courses/ENVE/898\)](http://bulletin.unl.edu/courses/ENVE/898)

Prereqs:
Permission

Special research-oriented problems in current topics in environmental engineering.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

ENVE
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/ENVE/899\)](http://bulletin.unl.edu/courses/ENVE/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

ENVE
990

Seminar in Environmental and Water Resources Engineering

[LINK \(http://bulletin.unl.edu/courses/ENVE/990\)](http://bulletin.unl.edu/courses/ENVE/990)

Prereqs:
Permission

Current research topics and projects in environmental and water resources engineering and closely allied areas.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

ENVE
998

Special Topics in Environmental Engineering

[LINK \(http://bulletin.unl.edu/courses/ENVE/998\)](http://bulletin.unl.edu/courses/ENVE/998)

Prereqs:
Permission

Independent library and/or experimental research, analysis, evaluation and presentation of current and advanced topics in environmental engineering and closely related areas.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

NRES
451

Soil Environmental Chemistry

Crosslisted as *ENVE 851*

[LINK \(http://bulletin.unl.edu/courses/NRES/451\)](http://bulletin.unl.edu/courses/NRES/451)

Prereqs:
[CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252).

Offered in spring semester of even-numbered calendar years

Theory, mechanisms and processes related to chemical behavior in soil-water environments. Application of computer simulation models for predicting contaminant fate in soil. Basic chemical and biological principles of remediating contaminated soil and water.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Courses for IMSE (IMSE)

IMSE
407/807

Project Management

[LINK \(http://bulletin.unl.edu/courses/IMSE/407\)](http://bulletin.unl.edu/courses/IMSE/407)

Project development, role of the project manager, project selection, project planning, budgeting and cost estimation, project scheduling, and project

Credit Hours:	3
Course Format:	Lecture 3

IMSE **461/861** **RFID Systems in the Supply Chain**

[LINK \(http://bulletin.unl.edu/courses/IMSE/461\)](http://bulletin.unl.edu/courses/IMSE/461)

Foundations of Radio Frequency Identification Systems (RFID). The fundamentals of how RFID components of tag, transponder, and antennae are utilized to create RFID systems. Best practices for implementation RFID systems in common supply chain operations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

IMSE **481/881** **Supply Chain Optimization**

[LINK \(http://bulletin.unl.edu/courses/IMSE/481\)](http://bulletin.unl.edu/courses/IMSE/481)

Foundations of supply chain network modeling. The concepts that support the economic and service trade-offs in supply chain and logistics management. Using decision support system (DSS) to design optimal logistics network models given data requirements and operational parameters. Using leading software packages to model problems arising in strategic management of logistics networks.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

IMSE **801** **Products Liability**

Crosslisted as *LAW 755G*

[LINK \(http://bulletin.unl.edu/courses/IMSE/801\)](http://bulletin.unl.edu/courses/IMSE/801)

Liability issues arising out of manufacturing defects, design defects and warning defects in various product categories. Specific issues related to product liability, such as identifying proper defendants, establishing causation and the issue of post-sale warnings. Broader policy questions about the role of litigation versus regulation in a democracy and a market economy.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

IMSE **805** **Analysis of Engineering Management I**

[LINK \(http://bulletin.unl.edu/courses/IMSE/805\)](http://bulletin.unl.edu/courses/IMSE/805)

Prereqs:
[IMSE 206 \(http://bulletin.unl.edu/courses/IMSE/206\)](http://bulletin.unl.edu/courses/IMSE/206)

This course is a prerequisite for: [IMSE 905 \(http://bulletin.unl.edu/courses/IMSE/905\)](http://bulletin.unl.edu/courses/IMSE/905)

General concepts and principles of engineering management applied to cases.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE **806** **Decision and Risk Analysis**

[LINK \(http://bulletin.unl.edu/courses/IMSE/806\)](http://bulletin.unl.edu/courses/IMSE/806)

Prereqs:
[IMSE 206 \(http://bulletin.unl.edu/courses/IMSE/206\)](http://bulletin.unl.edu/courses/IMSE/206); [IMSE 321 \(http://bulletin.unl.edu/courses/IMSE/321\)](http://bulletin.unl.edu/courses/IMSE/321) or [STAT 880 \(http://bulletin.unl.edu/courses/STAT/880\)](http://bulletin.unl.edu/courses/STAT/880)

This course is a prerequisite for: [IMSE 906 \(http://bulletin.unl.edu/courses/IMSE/906\)](http://bulletin.unl.edu/courses/IMSE/906)

Theory and practice of decision making under uncertainty. Graphical modeling techniques. Influence diagram and decision trees. The value of information. Utility theory foundations, risk preference and multi-attribute decision models. Economic justification of projects.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE **Ergonomics**

[LINK \(http://bulletin.unl.edu/courses/IMSE/810\)](http://bulletin.unl.edu/courses/IMSE/810)

810

Not open to students with credit in [IMSE 315](#) (<http://bulletin.unl.edu/courses/IMSE/315>). (Delivered via WWW.)
 Introduction to the principles of ergonomics. Information processing, human output and control, workplace design and environmental conditions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE **812** **Occupational Safety–A Systems Analysis**

[LINK \(http://bulletin.unl.edu/courses/IMSE/812\)](http://bulletin.unl.edu/courses/IMSE/812)

Prereqs:
[IMSE 321 \(http://bulletin.unl.edu/courses/IMSE/321\)](http://bulletin.unl.edu/courses/IMSE/321)

Analysis of safety performance, attribution of cost, identification and analysis of accident potential. Fault Tree analysis. Systems safety and reliability.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE **815** **Cognitive Ergonomics**

[LINK \(http://bulletin.unl.edu/courses/IMSE/815\)](http://bulletin.unl.edu/courses/IMSE/815)

Prereqs:
[IMSE 821 \(http://bulletin.unl.edu/courses/IMSE/821\)](http://bulletin.unl.edu/courses/IMSE/821) or permission

This course is a prerequisite for: [IMSE 916 \(http://bulletin.unl.edu/courses/IMSE/916\)](http://bulletin.unl.edu/courses/IMSE/916), [IMSE 919 \(http://bulletin.unl.edu/courses/IMSE/919\)](http://bulletin.unl.edu/courses/IMSE/919)

Human factors affecting work. Focus on humans: energy requirements, lighting, noise, monotony and fatigue, learning, simultaneous versus sequential tasks. Experimental evaluation of concepts.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

IMSE **816** **Physical Ergonomics**

[LINK \(http://bulletin.unl.edu/courses/IMSE/816\)](http://bulletin.unl.edu/courses/IMSE/816)

Prereqs:
[IMSE 821 \(http://bulletin.unl.edu/courses/IMSE/821\)](http://bulletin.unl.edu/courses/IMSE/821) or permission

This course is a prerequisite for: [IMSE 914 \(http://bulletin.unl.edu/courses/IMSE/914\)](http://bulletin.unl.edu/courses/IMSE/914), [IMSE 915 \(http://bulletin.unl.edu/courses/IMSE/915\)](http://bulletin.unl.edu/courses/IMSE/915)

Human performance in work. Focus on human's response to various environmental and task-related variables with emphasis on physical and physiological effects.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

IMSE **817** **Occupational Safety Hygiene Engineering**

[LINK \(http://bulletin.unl.edu/courses/IMSE/817\)](http://bulletin.unl.edu/courses/IMSE/817)

Prereqs:
 Permission

Introduction to occupational hygiene engineering with emphasis on work place environmental quality. Heat, illumination, noise, and ventilation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE **821** **Applied Statistics and Quality Control**

[LINK \(http://bulletin.unl.edu/courses/IMSE/821\)](http://bulletin.unl.edu/courses/IMSE/821)

Prereqs:
[IMSE 321 \(http://bulletin.unl.edu/courses/IMSE/321\)](http://bulletin.unl.edu/courses/IMSE/321)

Credit Hours:	3
Campus:	

This course is a prerequisite for: [IMSE 815 \(http://bulletin.unl.edu/courses/IMSE/815\)](http://bulletin.unl.edu/courses/IMSE/815), [IMSE 816 \(http://bulletin.unl.edu/courses/IMSE/816\)](http://bulletin.unl.edu/courses/IMSE/816)

Course Delivery: Classroom

Systematic analysis of processes through the use of statistical analysis, methods, and procedures: statistical process control, sampling, regression, ANOVA, quality control, and design of experiments.

IMSE 822 Industrial Quality Control

[LINK \(http://bulletin.unl.edu/courses/IMSE/822\)](http://bulletin.unl.edu/courses/IMSE/822)

IMSE
822

Prereqs:
[IMSE 321 \(http://bulletin.unl.edu/courses/IMSE/321\)](http://bulletin.unl.edu/courses/IMSE/321)

This course is a prerequisite for: [IMSE 923 \(http://bulletin.unl.edu/courses/IMSE/923\)](http://bulletin.unl.edu/courses/IMSE/923)

Statistical process control and quality assurance techniques in manufacturing. Control charts, acceptance sampling, and analyses and design of quality control systems.

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Campus:

Course Delivery: Classroom

IMSE 823 Reliability Engineering

[LINK \(http://bulletin.unl.edu/courses/IMSE/823\)](http://bulletin.unl.edu/courses/IMSE/823)

IMSE
823

Prereqs:
[IMSE 828 \(http://bulletin.unl.edu/courses/IMSE/828\)](http://bulletin.unl.edu/courses/IMSE/828)

System and component reliability analyses of series, parallel and complex systems. Concepts of reliability, availability, and maintainability in design of systems. Methods of reliability testing and estimation.

Credit Hours: 3

Campus:

Course Delivery: Classroom

IMSE 828 Stochastic Operations Research Models

[LINK \(http://bulletin.unl.edu/courses/IMSE/828\)](http://bulletin.unl.edu/courses/IMSE/828)

IMSE
828

Prereqs:
[IMSE 321 \(http://bulletin.unl.edu/courses/IMSE/321\)](http://bulletin.unl.edu/courses/IMSE/321)

This course is a prerequisite for: [IMSE 823 \(http://bulletin.unl.edu/courses/IMSE/823\)](http://bulletin.unl.edu/courses/IMSE/823)

Techniques for understanding and predicting stochastic system behavior. Probability, Markov chains, queueing analysis, dynamic programming and reliability.

Credit Hours: 3

Campus:

Course Delivery: Classroom

IMSE 831 Stochastic Processes

[LINK \(http://bulletin.unl.edu/courses/IMSE/831\)](http://bulletin.unl.edu/courses/IMSE/831)

IMSE
831

Prereqs:
[IMSE 428 \(http://bulletin.unl.edu/courses/IMSE/428\)](http://bulletin.unl.edu/courses/IMSE/428)/[828 \(http://bulletin.unl.edu/courses/IMSE/828\)](http://bulletin.unl.edu/courses/IMSE/828).

Fundamentals of stochastic processes and their application in modeling production/inventory control, maintenance and manufacturing systems. Markov and semi-Markov chains, Poisson processes, renewal processes, regenerative processes and Markov decision processes.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

IMSE 832 Scheduling

[LINK \(http://bulletin.unl.edu/courses/IMSE/832\)](http://bulletin.unl.edu/courses/IMSE/832)

IMSE
832

Prereqs:
[IMSE 334 \(http://bulletin.unl.edu/courses/IMSE/334\)](http://bulletin.unl.edu/courses/IMSE/334)

The problem of scheduling several tasks over time, including measure of

Credit Hours: 3

Campus:

Course Delivery: Classroom

performance, single-machine sequencing, flow shop scheduling, the job shop problem and priority dispatching.

IMSE
840

Discrete Event Simulation Modeling

[LINK \(http://bulletin.unl.edu/courses/IMSE/840\)](http://bulletin.unl.edu/courses/IMSE/840)

Prereqs:
[IMSE 206 \(http://bulletin.unl.edu/courses/IMSE/206\)](http://bulletin.unl.edu/courses/IMSE/206) and [321 \(http://bulletin.unl.edu/courses/IMSE/321\)](http://bulletin.unl.edu/courses/IMSE/321); [CSCE 155 \(http://bulletin.unl.edu/courses/CSCE/155\)](http://bulletin.unl.edu/courses/CSCE/155)

This course is a prerequisite for: [IMSE 984 \(http://bulletin.unl.edu/courses/IMSE/984\)](http://bulletin.unl.edu/courses/IMSE/984)

Development of simulation models of discrete systems. Model development, Monte Carlo techniques, random number generators and output analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE
860

Packaging Engineering

[LINK \(http://bulletin.unl.edu/courses/IMSE/860\)](http://bulletin.unl.edu/courses/IMSE/860)

Prereqs:
[IMSE 206 \(http://bulletin.unl.edu/courses/IMSE/206\)](http://bulletin.unl.edu/courses/IMSE/206), [321 \(http://bulletin.unl.edu/courses/IMSE/321\)](http://bulletin.unl.edu/courses/IMSE/321), [ENGM 373 \(http://bulletin.unl.edu/courses/ENGM/373\)](http://bulletin.unl.edu/courses/ENGM/373)

Investigation of packaging processes, materials, equipment, and design. Container design, material handling, storage, packaging, and environmental regulations, and material selection.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE
870

Theory and Practice of Materials Processing

[LINK \(http://bulletin.unl.edu/courses/IMSE/870\)](http://bulletin.unl.edu/courses/IMSE/870)

Prereqs:
[IMSE 370 \(http://bulletin.unl.edu/courses/IMSE/370\)](http://bulletin.unl.edu/courses/IMSE/370)

This course is a prerequisite for: [IMSE 970 \(http://bulletin.unl.edu/courses/IMSE/970\)](http://bulletin.unl.edu/courses/IMSE/970)

Theory, practice and application of conventional machining, forming and nontraditional machining processes with emphasis on tool life, dynamics of machine tools and adaptive control.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

IMSE
871

Tool and Die Design

[LINK \(http://bulletin.unl.edu/courses/IMSE/871\)](http://bulletin.unl.edu/courses/IMSE/871)

Prereqs:
[IMSE 370 \(http://bulletin.unl.edu/courses/IMSE/370\)](http://bulletin.unl.edu/courses/IMSE/370)

General consideration in tool designing, design of tool and workholding devices, forming machines and presswork tools; application of computer graphics and finite element techniques, and prediction of tool paths in CNC machines.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE
875

Manufacturing Systems I

[LINK \(http://bulletin.unl.edu/courses/IMSE/875\)](http://bulletin.unl.edu/courses/IMSE/875)

Prereqs:
[IMSE 375 \(http://bulletin.unl.edu/courses/IMSE/375\)](http://bulletin.unl.edu/courses/IMSE/375), [428 \(http://bulletin.unl.edu/courses/IMSE/428\)](http://bulletin.unl.edu/courses/IMSE/428)

This course is a prerequisite for: [IMSE 975 \(http://bulletin.unl.edu/courses/IMSE/975\)](http://bulletin.unl.edu/courses/IMSE/975)

Principles of automated production lines; analysis of transfer lines; group

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

technology; just-in-time; and optimization strategies for discrete parts manufacturing systems.

IMSE

876

Manufacturing Information Systems

[LINK \(http://bulletin.unl.edu/courses/IMSE/876\)](http://bulletin.unl.edu/courses/IMSE/876)

Prereqs:

[CSCE 155 \(http://bulletin.unl.edu/courses/CSCE/155\)](http://bulletin.unl.edu/courses/CSCE/155) or equivalent

Information systems and their impact on a manufacturing environment. Software, hardware, database systems, enterprise resource planning, networking and the Internet.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE

877

Robotics

[LINK \(http://bulletin.unl.edu/courses/IMSE/877\)](http://bulletin.unl.edu/courses/IMSE/877)

Prereqs:

[IMSE 375 \(http://bulletin.unl.edu/courses/IMSE/375\)](http://bulletin.unl.edu/courses/IMSE/375)

Basic robotics technology; application in manufacturing, manipulators and mechanical design; programming languages; intelligence and control.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

IMSE

882

Material Planning in Logistic Systems

[LINK \(http://bulletin.unl.edu/courses/IMSE/882\)](http://bulletin.unl.edu/courses/IMSE/882)

Prereqs:

[IMSE 321 \(http://bulletin.unl.edu/courses/IMSE/321\)](http://bulletin.unl.edu/courses/IMSE/321) and [328 \(http://bulletin.unl.edu/courses/IMSE/328\)](http://bulletin.unl.edu/courses/IMSE/328)

Theory, practice and application of inventory, demand and supply planning techniques in multistage environments. Managing economies of scale, uncertainties, capacity constraints, and product availability in a supply chain. Integrated planning, supply chain coordination and technology enablers.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE

883

Logistics in the Supply Chain

[LINK \(http://bulletin.unl.edu/courses/IMSE/883\)](http://bulletin.unl.edu/courses/IMSE/883)

Prereqs:

[IMSE 334 \(http://bulletin.unl.edu/courses/IMSE/334\)](http://bulletin.unl.edu/courses/IMSE/334)

Process of planning, implementing and controlling the efficient, effective flow and storage of goods, services and related information from the point of origin to the point of consumption. Domestic transportation systems, distribution centers and warehousing, international logistics, logistics system controls and re-engineering logistics systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE

888

Nonlinear Optimization in Engineering

Crosslisted as *ENGM 888*

[LINK \(http://bulletin.unl.edu/courses/IMSE/888\)](http://bulletin.unl.edu/courses/IMSE/888)

Prereqs:

[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208)/[208H \(http://bulletin.unl.edu/courses/MATH/208H\)](http://bulletin.unl.edu/courses/MATH/208H) and [314 \(http://bulletin.unl.edu/courses/MATH/314\)](http://bulletin.unl.edu/courses/MATH/314)/[814 \(http://bulletin.unl.edu/courses/MATH/814\)](http://bulletin.unl.edu/courses/MATH/814); [ENGM 480 \(http://bulletin.unl.edu/courses/ENGM/480\)](http://bulletin.unl.edu/courses/ENGM/480)/[880 \(http://bulletin.unl.edu/courses/ENGM/880\)](http://bulletin.unl.edu/courses/ENGM/880); and permission

Nonlinear optimization using gradient-based and evolutionary methods. Constrained and unconstrained nonlinear optimization, Karush-Kuhn-

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Tucker conditions, penalty and barrier methods. Applications to optimal design in sciences and engineering.

IMSE
898

Laboratory Investigation

[LINK \(http://bulletin.unl.edu/courses/IMSE/898\)](http://bulletin.unl.edu/courses/IMSE/898)

Investigation and written report of research into a specific problem in any area of industrial or management systems engineering.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lab
Campus:	
Course Delivery:	Classroom

IMSE
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/IMSE/899\)](http://bulletin.unl.edu/courses/IMSE/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

IMSE
901

Total Quality Management Using Six Sigma Techniques

[LINK \(http://bulletin.unl.edu/courses/IMSE/901\)](http://bulletin.unl.edu/courses/IMSE/901)

Introduction to advanced topics in Engineering Management and the foundations of Total Quality Management (TQM). Costs of quality, statistical tools, initiating change, advanced topics, and TQM in practice. Using DMAIC, DFSS, and COPQ along with the other industry-accepted Six Sigma Quality Techniques.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

IMSE
905

Analysis of Engineering Management II

[LINK \(http://bulletin.unl.edu/courses/IMSE/905\)](http://bulletin.unl.edu/courses/IMSE/905)

Prereqs:
[IMSE 805 \(http://bulletin.unl.edu/courses/IMSE/805\)](http://bulletin.unl.edu/courses/IMSE/805)

Continuation of concepts and principles of engineering management applied to production cases.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE
906

Financial Engineering

[LINK \(http://bulletin.unl.edu/courses/IMSE/906\)](http://bulletin.unl.edu/courses/IMSE/906)

Prereqs:
[IMSE 806 \(http://bulletin.unl.edu/courses/IMSE/806\)](http://bulletin.unl.edu/courses/IMSE/806)

Applications of principle and financial economics in industrial and systems engineering. Term structure of interest, capital asset pricing and other capital allocation models. Evaluation of real-options using binomial lattice, Black-Scholes and other pricing models.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE
914

Physiological Aspects of Ergonomics

[LINK \(http://bulletin.unl.edu/courses/IMSE/914\)](http://bulletin.unl.edu/courses/IMSE/914)

Prereqs:
[IMSE 816 \(http://bulletin.unl.edu/courses/IMSE/816\)](http://bulletin.unl.edu/courses/IMSE/816) or permission

Credit Hours:	3
Campus:	

Lecture and laboratory study of physiological factors affecting human performance during work. Includes evaluation and testing of physical work capacity, applied work physiology, and factors affecting work performance in stress producing environments.

Course Delivery: Classroom

IMSE
915 Biomechanics

[LINK \(http://bulletin.unl.edu/courses/IMSE/915\)](http://bulletin.unl.edu/courses/IMSE/915)

Prereqs:
[IMSE 816 \(http://bulletin.unl.edu/courses/IMSE/816\)](http://bulletin.unl.edu/courses/IMSE/816)

Introduction and historical developments, theoretical fundamentals of the mechanics of the body. The link system of the body and kinematic aspects of extremity joints. of human motion.

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Campus:

Course Delivery: Classroom

IMSE
916 Biotechnology

[LINK \(http://bulletin.unl.edu/courses/IMSE/916\)](http://bulletin.unl.edu/courses/IMSE/916)

Prereqs:
[IMSE 815 \(http://bulletin.unl.edu/courses/IMSE/815\)](http://bulletin.unl.edu/courses/IMSE/815), [816 \(http://bulletin.unl.edu/courses/IMSE/816\)](http://bulletin.unl.edu/courses/IMSE/816)

Focus on man in system; man-man and man-machine communication. Design and arrangement of controls and displays. Experimental evaluation concepts.

Credit Hours: 3

Campus:

Course Delivery: Classroom

IMSE
919 Determinants of Occupational Performance

[LINK \(http://bulletin.unl.edu/courses/IMSE/919\)](http://bulletin.unl.edu/courses/IMSE/919)

Prereqs:
[IMSE 815 \(http://bulletin.unl.edu/courses/IMSE/815\)](http://bulletin.unl.edu/courses/IMSE/815), [816 \(http://bulletin.unl.edu/courses/IMSE/816\)](http://bulletin.unl.edu/courses/IMSE/816) or permission

Focus on the individual in the industrial working environment. Emphasis on evaluation of fatigue, training, shift work, perception, vigilance, and work-rest scheduling as they relate to the working environment.

Credit Hours: 3

Campus:

Course Delivery: Classroom

IMSE
922 Quality Engineering: Use of Experimental Design and Other Techniques

[LINK \(http://bulletin.unl.edu/courses/IMSE/922\)](http://bulletin.unl.edu/courses/IMSE/922)

Extension of industrial quality control methods and techniques. Off-line and online quality control methods. Development of quality at the design stage through planned experiments and analyses. Experimental design methods include factorial, 2k, 3k, and fractional factorials designs. Includes applied project in design of quality.

Credit Hours: 3

Campus:

Course Delivery: Classroom

IMSE
923 Manufacturing and Dynamic Systems Modeling

[LINK \(http://bulletin.unl.edu/courses/IMSE/923\)](http://bulletin.unl.edu/courses/IMSE/923)

Prereqs:
[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) and [IMSE 822 \(http://bulletin.unl.edu/courses/IMSE/822\)](http://bulletin.unl.edu/courses/IMSE/822) or equivalent

Difference and differential equation models directly from series of observed data. Underlying system analysis including impulse response, stability and feedback interpretation. Forecasting and accuracy of forecasts. Periodic and exponential trends in seasonal series. Modeling two series simultaneously. Minimum mean squared error control and forecasting by leading indicators. Illustrative applications to real life data in science and engineering.

Credit Hours: 3

Campus:

Course Delivery: Classroom

IMSE
970

Advanced Manufacturing Processes

[LINK \(http://bulletin.unl.edu/courses/IMSE/970\)](http://bulletin.unl.edu/courses/IMSE/970)

Prereqs:
[IMSE 870 \(http://bulletin.unl.edu/courses/IMSE/870\)](http://bulletin.unl.edu/courses/IMSE/870) or permission

Theory, practice and technology of advanced manufacturing processes, with emphasis on process mechanism, surface integrity, tool and machine design, adaptive control and expert systems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE
975

Manufacturing Systems II

[LINK \(http://bulletin.unl.edu/courses/IMSE/975\)](http://bulletin.unl.edu/courses/IMSE/975)

Prereqs:
[IMSE 875 \(http://bulletin.unl.edu/courses/IMSE/875\)](http://bulletin.unl.edu/courses/IMSE/875)

Concepts and models of programmable automation and materials handling systems; use of artificial intelligence for shop floor control; design and analysis of flexible manufacturing systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

IMSE
984

Advanced Simulation Modeling

[LINK \(http://bulletin.unl.edu/courses/IMSE/984\)](http://bulletin.unl.edu/courses/IMSE/984)

Prereqs:
[IMSE 840 \(http://bulletin.unl.edu/courses/IMSE/840\)](http://bulletin.unl.edu/courses/IMSE/840)

Philosophy, principles and methodology for discrete-event simulation modeling. Use of simulation in the planning of manufacturing and service systems. Simulation modeling perspectives and languages, variance reduction techniques, model verification and validation, and output analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

IMSE
991

Seminar

[LINK \(http://bulletin.unl.edu/courses/IMSE/991\)](http://bulletin.unl.edu/courses/IMSE/991)

Prereqs:
Permission

Presentation and discussion of current topics in the field of industrial engineering.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

IMSE
996

Advanced Topics in Industrial Engineering

[LINK \(http://bulletin.unl.edu/courses/IMSE/996\)](http://bulletin.unl.edu/courses/IMSE/996)

Current topics in major areas of study with the Department of Industrial and Management Systems Engineering that are pertinent to IMSE graduate students, in the areas of:

- A. Engineering Management
- B. Human Factors Engineering
- D. Manufacturing Engineering
- E. Operations Research

Credit Hours:	3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

IMSE
998

Advanced Laboratory Investigation

[LINK \(http://bulletin.unl.edu/courses/IMSE/998\)](http://bulletin.unl.edu/courses/IMSE/998)

Prereqs:
Permission

Semester projects involving research into a specific problem in industrial or

Credit Hours:	1-12
Campus:	
Course Delivery:	Classroom

IMSE

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/IMSE/999\)](http://bulletin.unl.edu/courses/IMSE/999)**Prereqs:**

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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Courses for MECH (MECH)

MECH

401/801**Elements of Nuclear Engineering**Crosslisted as *ENGR 401*[LINK \(http://bulletin.unl.edu/courses/MECH/401\)](http://bulletin.unl.edu/courses/MECH/401)**Prereqs:**

[ENGR 300 \(http://bulletin.unl.edu/courses/ENGR/300\)](http://bulletin.unl.edu/courses/ENGR/300) or [301 \(http://bulletin.unl.edu/courses/ENGR/301\)](http://bulletin.unl.edu/courses/ENGR/301) or [310 \(http://bulletin.unl.edu/courses/ENGR/310\)](http://bulletin.unl.edu/courses/ENGR/310); [MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208)/[208H \(http://bulletin.unl.edu/courses/MATH/208H\)](http://bulletin.unl.edu/courses/MATH/208H); and [PHYS 212 \(http://bulletin.unl.edu/courses/PHYS/212\)](http://bulletin.unl.edu/courses/PHYS/212)/[212H \(http://bulletin.unl.edu/courses/PHYS/212H\)](http://bulletin.unl.edu/courses/PHYS/212H).

Survey of nuclear engineering concepts and applications. Nuclear reactions, radioactivity, radiation interaction with matter, reactor physics, risk and dose assessment, applications in medicine, industry, agriculture, and research.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MECH

424/824**Laser Material Processing with Compressible Flow Perspective**[LINK \(http://bulletin.unl.edu/courses/MECH/424\)](http://bulletin.unl.edu/courses/MECH/424)**Prereqs:**

Permission.

Fundamentals of laser material processing. Laser material interactions from the compressible flow perspective. Analytical, semi-analytical, and numerical approaches.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MECH

426/826**Heat Transfer at Nanoscales and in Ultrashort Time Domains**[LINK \(http://bulletin.unl.edu/courses/MECH/426\)](http://bulletin.unl.edu/courses/MECH/426)**Prereqs:**

[MECH 420 \(http://bulletin.unl.edu/courses/MECH/420\)](http://bulletin.unl.edu/courses/MECH/420).

Heat transfer in nanoscale and nanostructured materials. Heat transfer in ultrafast laser materials processing.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

MECH

431/831**Computational Heat Transfer and Fluid Flow**[LINK \(http://bulletin.unl.edu/courses/MECH/431\)](http://bulletin.unl.edu/courses/MECH/431)**Prereqs:**

[MECH 310 \(http://bulletin.unl.edu/courses/MECH/310\)](http://bulletin.unl.edu/courses/MECH/310); [MATH 314 \(http://bulletin.unl.edu/courses/MATH/314\)](http://bulletin.unl.edu/courses/MATH/314); [MECH 420 \(http://bulletin.unl.edu/courses/MECH/420\)](http://bulletin.unl.edu/courses/MECH/420) or parallel.

Credit Hours:	3
Course Delivery:	Classroom

Finite difference methods for steady and transient diffusion and convection-diffusion problems. Finite volume technique for the solution of multi-dimensional fluid flow, and heat and mass transfer problems.

MECH

Introduction to Continuum Biomechanics

[LINK \(http://bulletin.unl.edu/courses/MECH/436\)](http://bulletin.unl.edu/courses/MECH/436)

436/836

Prereqs:

[ENGM 373 \(http://bulletin.unl.edu/courses/ENGM/373\)](http://bulletin.unl.edu/courses/ENGM/373); [MECH 310 \(http://bulletin.unl.edu/courses/MECH/310\)](http://bulletin.unl.edu/courses/MECH/310) and [420 \(http://bulletin.unl.edu/courses/MECH/420\)](http://bulletin.unl.edu/courses/MECH/420).

Introduction to biomechanics. Basic anatomy, biomaterials, kinematics, dynamics, visco-elasticity, bio-fluid mechanics, and bio-heat transfer.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

MECH

Biomedical Device Design

[LINK \(http://bulletin.unl.edu/courses/MECH/437\)](http://bulletin.unl.edu/courses/MECH/437)

437/837

Prereqs:

[ENGM 223 \(http://bulletin.unl.edu/courses/ENGM/223\)](http://bulletin.unl.edu/courses/ENGM/223), [325 \(http://bulletin.unl.edu/courses/ENGM/325\)](http://bulletin.unl.edu/courses/ENGM/325), and [373 \(http://bulletin.unl.edu/courses/ENGM/373\)](http://bulletin.unl.edu/courses/ENGM/373); or equivalent.

Biomedical Device Design (3cr) Lec 3. Prereq: [ENGM 223 \(http://bulletin.unl.edu/courses/ENGM/223\)](http://bulletin.unl.edu/courses/ENGM/223), [325 \(http://bulletin.unl.edu/courses/ENGM/325\)](http://bulletin.unl.edu/courses/ENGM/325), & [373 \(http://bulletin.unl.edu/courses/ENGM/373\)](http://bulletin.unl.edu/courses/ENGM/373) or equivalent. Design of devices intended for use in biomedical environments. Introduction to modeling of the bio-environment, biomaterials and material selection. Overview of design methodologies and strategies used in biomedical device design from a material properties perspective. Introduction to federal regulation and other pertinent issues.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MECH

Vehicle Dynamics

[LINK \(http://bulletin.unl.edu/courses/MECH/455\)](http://bulletin.unl.edu/courses/MECH/455)

455/855

Prereqs:

[MECH 343 \(http://bulletin.unl.edu/courses/MECH/343\)](http://bulletin.unl.edu/courses/MECH/343) and [350 \(http://bulletin.unl.edu/courses/MECH/350\)](http://bulletin.unl.edu/courses/MECH/350).

Introduction to basic mechanics governing automotive vehicle dynamic acceleration, braking, ride, handling and stability. Analytical methods, including computer simulation, in vehicle dynamics. The different components and subsystems of a vehicle that influence vehicle dynamic performance.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MECH

Dynamics of Internal Combustion Engines

[LINK \(http://bulletin.unl.edu/courses/MECH/456\)](http://bulletin.unl.edu/courses/MECH/456)

456/856

Prereqs:

[MECH 342 \(http://bulletin.unl.edu/courses/MECH/342\)](http://bulletin.unl.edu/courses/MECH/342) and [343 \(http://bulletin.unl.edu/courses/MECH/343\)](http://bulletin.unl.edu/courses/MECH/343).

Basics of design of the internal combustion engines. Design of various engine parts such as pistons, connecting rods, valve trains, crankshafts, and the vibration dampers. Dynamics of the engine. The vibration of the crankshaft assembly and the valve train. Balancing of the engines.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MECH

Turbomachinery

[LINK \(http://bulletin.unl.edu/courses/MECH/802\)](http://bulletin.unl.edu/courses/MECH/802)

802

Prereqs:
[MECH 300 \(http://bulletin.unl.edu/courses/MECH/300\)](http://bulletin.unl.edu/courses/MECH/300) and [MECH/CIVE 310 \(http://bulletin.unl.edu/courses/CIVE/310\)](http://bulletin.unl.edu/courses/CIVE/310)

Thermodynamic analysis and design of axial and radial flow turbines, compressors and pumps. Fundamentals of the operating characteristics and performance parameters of turbomachines. Cavitation and blade element theory.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 803 Internal Combustion Engines

[LINK \(http://bulletin.unl.edu/courses/MECH/803\)](http://bulletin.unl.edu/courses/MECH/803)

Prereqs:
[MECH 300 \(http://bulletin.unl.edu/courses/MECH/300\)](http://bulletin.unl.edu/courses/MECH/300) or equivalent

Basic cycle analysis and engine types, fundamental thermodynamics and operating characteristics of various engines analyzed, combustion processes for spark and compression-ignition engines, fuels, testing procedures and lubrication systems evaluated. Thermodynamic evaluation of the performance and the basic operation of various engine types.

Credit Hours:	3
Course Format:	Lab 2, Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 804 Theory of Combustion

[LINK \(http://bulletin.unl.edu/courses/MECH/804\)](http://bulletin.unl.edu/courses/MECH/804)

Prereqs:
[MECH 300 \(http://bulletin.unl.edu/courses/MECH/300\)](http://bulletin.unl.edu/courses/MECH/300), [820 \(http://bulletin.unl.edu/courses/MECH/820\)](http://bulletin.unl.edu/courses/MECH/820) or permission

This course is a prerequisite for: [MECH 904 \(http://bulletin.unl.edu/courses/MECH/904\)](http://bulletin.unl.edu/courses/MECH/904)

Stoichiometric analysis of combustion processes. Energy transfer, flame propagation and transformation velocities during combustion. Combustor applications and design considerations. Emission formation and methods of control.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 806 Air Conditioning Systems Design

[LINK \(http://bulletin.unl.edu/courses/MECH/806\)](http://bulletin.unl.edu/courses/MECH/806)

Prereqs:
[MECH 300 \(http://bulletin.unl.edu/courses/MECH/300\)](http://bulletin.unl.edu/courses/MECH/300) or equivalent

A comprehensive design project is an integral part of course. Application of thermodynamic and fluid dynamic principles to the design of air conditioning systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 807 Power Plant Systems Design

[LINK \(http://bulletin.unl.edu/courses/MECH/807\)](http://bulletin.unl.edu/courses/MECH/807)

Prereqs:
[MECH 300 \(http://bulletin.unl.edu/courses/MECH/300\)](http://bulletin.unl.edu/courses/MECH/300) or equivalent

A comprehensive design project is an integral part of course. Application of thermodynamic and fluid dynamic principles to the design of power plants.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 808 Heat Exchanger Design

[LINK \(http://bulletin.unl.edu/courses/MECH/808\)](http://bulletin.unl.edu/courses/MECH/808)

Prereqs:
MECH 300 (<http://bulletin.unl.edu/courses/MECH/300>) or equivalent

Practical exercises in actual design tasks. Design methodology for various heat exchangers employed in mechanical engineering. Introduction to computer-aided design as applied to heat exchangers.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH
810 **Viscous Flow I**

[LINK \(http://bulletin.unl.edu/courses/MECH/810\)](http://bulletin.unl.edu/courses/MECH/810)

Prereqs:
MECH 310 (<http://bulletin.unl.edu/courses/MECH/310>) and **MATH 821** (<http://bulletin.unl.edu/courses/MATH/821>)

This course is a prerequisite for: **AREN 918** (<http://bulletin.unl.edu/courses/AREN/918>)

Dynamics and kinematics of laminar flows of viscous fluids. Development of the equations of motion in general and some exact solutions to them. Flows with small to large (laminar) Reynolds numbers including fundamental concepts of the boundary layer on a flat plate.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH
812 **Viscous Flow II**

[LINK \(http://bulletin.unl.edu/courses/MECH/812\)](http://bulletin.unl.edu/courses/MECH/812)

Prereqs:
MECH *810, **MATH 822** (<http://bulletin.unl.edu/courses/MATH/822>) or **824** (<http://bulletin.unl.edu/courses/MATH/824>) or **MECH *890**

Vorticity dynamics. Ideal flows in a plane and in axisymmetric and three-dimensional geometries. Advanced boundary layer theory. Introduction to stability and turbulent flows.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH
813 **Aerodynamics**

[LINK \(http://bulletin.unl.edu/courses/MECH/813\)](http://bulletin.unl.edu/courses/MECH/813)

Prereqs:
MECH 200 (<http://bulletin.unl.edu/courses/MECH/200>) and **310** (<http://bulletin.unl.edu/courses/MECH/310>)

Subsonic and supersonic airflow theory, dynamics of flight performance parameters, rotor analysis and special topics.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH
814 **Compressible Flow**

[LINK \(http://bulletin.unl.edu/courses/MECH/814\)](http://bulletin.unl.edu/courses/MECH/814)

Prereqs:
MECH 300 (<http://bulletin.unl.edu/courses/MECH/300>) and **310** (<http://bulletin.unl.edu/courses/MECH/310>)

Analysis of the flow of compressible fluids by means of the momentum equation, continuity equation, and the laws of the thermodynamics and some application of thermodynamics laws to incompressible fluids.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH
815 **Two-Phase Flow**

[LINK \(http://bulletin.unl.edu/courses/MECH/815\)](http://bulletin.unl.edu/courses/MECH/815)

Prereqs:
or parallel: **MECH 310** (<http://bulletin.unl.edu/courses/MECH/310>) and **380** (<http://bulletin.unl.edu/courses/MECH/380>)

Credit Hours:	3
Course Format:	Lab 3, Lecture 2

Transport phenomena of homogeneous and heterogeneous types of mixtures such as solid-liquid, solid-gas, liquid-liquid and liquid-gas. Properties of components and mixtures. Flow induced vibrations and parameter distributions. Optimization and design problems in multiphase systems.

Campus:	
Course Delivery:	Classroom

MECH 816 Engineering Acoustics

[LINK \(http://bulletin.unl.edu/courses/MECH/816\)](http://bulletin.unl.edu/courses/MECH/816)

Prereqs:
[MECH 310 \(http://bulletin.unl.edu/courses/MECH/310\)](http://bulletin.unl.edu/courses/MECH/310) and [MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821)

Transverse and longitudinal traveling waves; acoustic wave equation of fluids; reflection, transmission, radiation, reception, absorption and attenuation of sound; acoustic cavities and waveguides; and sound propagation in pipes, resonators and filters.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 820 Heat Transfer

[LINK \(http://bulletin.unl.edu/courses/MECH/820\)](http://bulletin.unl.edu/courses/MECH/820)

Prereqs:
[MECH 310 \(http://bulletin.unl.edu/courses/MECH/310\)](http://bulletin.unl.edu/courses/MECH/310)

This course is a prerequisite for: [AREN 810 \(http://bulletin.unl.edu/courses/AREN/810\)](http://bulletin.unl.edu/courses/AREN/810), [MECH 825 \(http://bulletin.unl.edu/courses/MECH/825\)](http://bulletin.unl.edu/courses/MECH/825), [MECH 922 \(http://bulletin.unl.edu/courses/MECH/922\)](http://bulletin.unl.edu/courses/MECH/922), [MECH 923 \(http://bulletin.unl.edu/courses/MECH/923\)](http://bulletin.unl.edu/courses/MECH/923), [MECH 924 \(http://bulletin.unl.edu/courses/MECH/924\)](http://bulletin.unl.edu/courses/MECH/924)

Heat transfer by conduction, convection and radiation. Correlation of theory with experimental data and engineering design.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 825 Solar Energy Engineering

[LINK \(http://bulletin.unl.edu/courses/MECH/825\)](http://bulletin.unl.edu/courses/MECH/825)

Prereqs:
[MECH 820 \(http://bulletin.unl.edu/courses/MECH/820\)](http://bulletin.unl.edu/courses/MECH/820) or permission

Conversion of solar energy into more useful forms with emphasis on environmental heating and cooling applications. Includes solar energy availability, solar collectors and design, solar systems and their simulation and solar economics.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 842 Intermediate Kinematics

[LINK \(http://bulletin.unl.edu/courses/MECH/842\)](http://bulletin.unl.edu/courses/MECH/842)

Prereqs:
[MECH 342 \(http://bulletin.unl.edu/courses/MECH/342\)](http://bulletin.unl.edu/courses/MECH/342)

This course is a prerequisite for: [MECH 943 \(http://bulletin.unl.edu/courses/MECH/943\)](http://bulletin.unl.edu/courses/MECH/943)

Analytic cam design. The geometry of constrained plane motion and application to the design of mechanisms. Analysis and synthesis of pin-jointed linkage mechanisms.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH 844 Intermediate Dynamics of Machinery

[LINK \(http://bulletin.unl.edu/courses/MECH/844\)](http://bulletin.unl.edu/courses/MECH/844)

Prereqs:

Credit Hours:	3
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MECH 342 (<http://bulletin.unl.edu/courses/MECH/342>) and **350** (<http://bulletin.unl.edu/courses/MECH/350>)

Fundamentals of vibration, vibration and impact in machines, balance of rotors, flexible rotor dynamics and instabilities, parametric vibration, advanced dynamics and design of cam mechanisms, dynamics of flywheel.

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH 845 Mechanical Engineering Design Concepts

[LINK \(http://bulletin.unl.edu/courses/MECH/845\)](http://bulletin.unl.edu/courses/MECH/845)

Prereqs:
MECH 200 (<http://bulletin.unl.edu/courses/MECH/200>), **310** (<http://bulletin.unl.edu/courses/MECH/310>), **342** (<http://bulletin.unl.edu/courses/MECH/342>), and **350** (<http://bulletin.unl.edu/courses/MECH/350>)

This course is a prerequisite for: **MECH 945** (<http://bulletin.unl.edu/courses/MECH/945>)

Development of design concepts. Introduction to synthesis techniques and mathematical analysis methods. Applications of these techniques to mechanical engineering design projects.

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Campus:

Course Delivery: Classroom

MECH 850 Mechanical Engineering Control Systems Design

[LINK \(http://bulletin.unl.edu/courses/MECH/850\)](http://bulletin.unl.edu/courses/MECH/850)

Prereqs:
MECH 350 (<http://bulletin.unl.edu/courses/MECH/350>)

Applications of control systems analysis and synthesis for mechanical engineering equipment. Control systems for pneumatic, hydraulic, kinematic, electromechanical and thermal systems.

Credit Hours: 3

Course Format: Lab 2, Lecture 2

Campus:

Course Delivery: Classroom

MECH 852 Digital Control of Mechanical Systems

[LINK \(http://bulletin.unl.edu/courses/MECH/852\)](http://bulletin.unl.edu/courses/MECH/852)

Prereqs:
MECH 450 (<http://bulletin.unl.edu/courses/MECH/450>)

Introduction to digital measurement and control of mechanical systems. Applications of analysis and synthesis of discrete time systems.

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Campus:

Course Delivery: Classroom

MECH 853 Robotics: Kinematics and Design

[LINK \(http://bulletin.unl.edu/courses/MECH/853\)](http://bulletin.unl.edu/courses/MECH/853)

Prereqs:
MECH 350 (<http://bulletin.unl.edu/courses/MECH/350>)

Robotics synthesize some aspects of human function by the use of mechanisms, sensors, actuators and computers.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH 857 Mechatronic Systems Design

[LINK \(http://bulletin.unl.edu/courses/MECH/857\)](http://bulletin.unl.edu/courses/MECH/857)

Prereqs:
ELEC 231 (<http://bulletin.unl.edu/courses/ELEC/231>); **MECH 350** (<http://bulletin.unl.edu/courses/MECH/350>) or parallel

Lab sessions allow for constructing mechatronic systems. Lab time arranged. A comprehensive design project included. Theory, application, simulation, and design of systems that integrate mechanical, computer, and electronic

Credit Hours: 3

Course Format: Lab 2, Lecture 3

Campus:

Course Delivery: Classroom

components.

MECH

881

Introduction to Nuclear Engineering

[LINK \(http://bulletin.unl.edu/courses/MECH/881\)](http://bulletin.unl.edu/courses/MECH/881)

Prereqs:

MATH *820 or 821

Introduction to nuclear physics, radiation interaction with matter, reactor fundamentals, and the application of equipment and principles associated with reactor safety and operations.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH

890

Advanced Analysis of Mechanical Engineering Systems

[LINK \(http://bulletin.unl.edu/courses/MECH/890\)](http://bulletin.unl.edu/courses/MECH/890)

Engineering mathematics review. Formulation and solution of engineering problems including basic laws, lumped parameter models, and continuous systems. Examples drawn from all areas of mechanical engineering.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH

898

Laboratory and Analytical Investigations

[LINK \(http://bulletin.unl.edu/courses/MECH/898\)](http://bulletin.unl.edu/courses/MECH/898)

Investigation and written report of research into a specific problem in any major area of mechanical engineering.

Credit Hours: 1-6

Max credits per degree: 6

Course Format: Lab

Campus:

Course Delivery: Classroom

MECH

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/MECH/899\)](http://bulletin.unl.edu/courses/MECH/899)

Prereqs:

Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

MECH

900

Advanced Thermodynamics

[LINK \(http://bulletin.unl.edu/courses/MECH/900\)](http://bulletin.unl.edu/courses/MECH/900)

Prereqs:

Permission

Classical thermodynamics providing precise and true understanding; advanced methodologies and applications to mechanical engineering tasks; axiomatic foundations of classical thermodynamics, engineering applications to working substances in motion; systematic generalizations to exotic substances; and selected topics as illustrations.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH

904

Advanced Combustion Theory

[LINK \(http://bulletin.unl.edu/courses/MECH/904\)](http://bulletin.unl.edu/courses/MECH/904)

Prereqs:

MECH 804 (<http://bulletin.unl.edu/courses/MECH/804>) or equivalent

Credit Hours: 3

Detailed analysis of modern combustion wave theory, particularly chain reaction calculations and flame temperature determination. Gas dynamics of flames. Advanced mass transfer as applied to combustion. Aerodynamics of flame stabilization by vortices. Critical examination of present experimental techniques and results.

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH **912** Advanced Topics in Fluid Dynamics

[LINK \(http://bulletin.unl.edu/courses/MECH/912\)](http://bulletin.unl.edu/courses/MECH/912)

Prereqs:
MECH *812 or permission

Selected topics from one or two of the following fields: magneto–fluid–mechanics, three–dimensional boundary layers, fluid–mechanical stability, hypersonic flow, theory of turbulence, rarefied gas dynamics or other current research interest area.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH **916** Turbulent Flows

[LINK \(http://bulletin.unl.edu/courses/MECH/916\)](http://bulletin.unl.edu/courses/MECH/916)

Prereqs:
MECH *812

Methods of description and basic equations of turbulent flows. Isotropic and homogeneous turbulence, energy spectra and correlations. Introduction to measurements. Transition theory and experimental evidence. Wall turbulence, engineering calculations of turbulent boundary layers. Free turbulent jets and wakes.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH **922** Conduction Heat Transfer

[LINK \(http://bulletin.unl.edu/courses/MECH/922\)](http://bulletin.unl.edu/courses/MECH/922)

Prereqs:
MECH 820 (<http://bulletin.unl.edu/courses/MECH/820>) or permission

Theory of heat conduction; analytical, numerical, graphical and analog methods of solution.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH **923** Convection Heat Transfer

[LINK \(http://bulletin.unl.edu/courses/MECH/923\)](http://bulletin.unl.edu/courses/MECH/923)

Prereqs:
MECH 820 (<http://bulletin.unl.edu/courses/MECH/820>) or permission

Theory of heat transfer by convection. Analytical, numerical, and empirical solutions. Selected applications.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH **924** Radiation Heat Transfer

[LINK \(http://bulletin.unl.edu/courses/MECH/924\)](http://bulletin.unl.edu/courses/MECH/924)

Prereqs:
MECH 820 (<http://bulletin.unl.edu/courses/MECH/820>) or permission

Theory of heat transfer by thermal radiation. Formulation and analytical and numerical solutions. Selected applications.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MECH

932**Advanced Finite Element Methods**[LINK \(http://bulletin.unl.edu/courses/MECH/932\)](http://bulletin.unl.edu/courses/MECH/932)**Prereqs:****MECH 831** (<http://bulletin.unl.edu/courses/MECH/831>), *890

Review of basic finite element methods including field problems and continuum solid mechanics problems. Advanced linear methods: eigenvalues and mode superposition, convection-diffusion problems, Stokes flow problems. Nonlinear methods for heat transfer, fluid flow, and solid mechanics.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH

943**Machine Design**[LINK \(http://bulletin.unl.edu/courses/MECH/943\)](http://bulletin.unl.edu/courses/MECH/943)**Prereqs:****MECH 842** (<http://bulletin.unl.edu/courses/MECH/842>) or permission

The student's competence in designing machine members to withstand various static and dynamic loads, to analyze failure, and to design members for optimum balance of weight, cost, and reliability is advanced to a level beyond that of **MECH 843** (<http://bulletin.unl.edu/courses/MECH/843>). Impact loading, fatigue, optimum design of mechanical components, lubrication, and environmental considerations (mechanical properties at high and low temperature, creep, stress corrosion, fretting corrosion, etc.) are tested. Laboratory includes completion of one or more realistic individual design projects and the use of engineering case studies to illustrate more complex interactive design than would be feasible to actually carry out in one semester.

Credit Hours:	3
Course Format:	Lab 3, Lecture 2
Campus:	
Course Delivery:	Classroom

MECH

945**Probabilistic Design of Machine Elements**[LINK \(http://bulletin.unl.edu/courses/MECH/945\)](http://bulletin.unl.edu/courses/MECH/945)**Prereqs:****MECH 845** (<http://bulletin.unl.edu/courses/MECH/845>); **STAT 880** (<http://bulletin.unl.edu/courses/STAT/880>); or permission

Application of probability to the design of machine elements. Rational determination of component factor of safety based on probability densities of strength and of in-service stress. Statistical study of cumulative damage resulting from varying magnitude stress cycles. Probability of survival of fatigue-life design.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MECH

950**Impact Engineering**[LINK \(http://bulletin.unl.edu/courses/MECH/950\)](http://bulletin.unl.edu/courses/MECH/950)**Prereqs:****ENGM/CIVE 851** (<http://bulletin.unl.edu/courses/CIVE/851>)

Design and analysis of structures that undergo impact. Nonlinear, large-deformation finite element analysis of structures. Vehicle crashworthiness, roadside safety design, sheet metal forming, and projectile impacts.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MECH

958**Advanced Mechatronics**[LINK \(http://bulletin.unl.edu/courses/MECH/958\)](http://bulletin.unl.edu/courses/MECH/958)**Prereqs:****MECH 457** (<http://bulletin.unl.edu/courses/MECH/457>)/**857** (<http://bulletin.unl.edu/courses/MECH/857>) or permission

Theory, application, simulation, and design of systems that integrate mechanical, computer, and electronics components. Analyze, design,

Credit Hours:	3
Course Format:	Lab 2, Lecture 3
Campus:	
Course Delivery:	Classroom

MECH
991

Seminar

[LINK \(http://bulletin.unl.edu/courses/MECH/991\)](http://bulletin.unl.edu/courses/MECH/991)

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

MECH
996

Laboratory and Analytical Investigations

[LINK \(http://bulletin.unl.edu/courses/MECH/996\)](http://bulletin.unl.edu/courses/MECH/996)

Semester projects involving research into a specific problem in any major area of mechanical engineering.

Credit Hours:	1-12
Campus:	
Course Delivery:	Classroom

MECH
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/MECH/999\)](http://bulletin.unl.edu/courses/MECH/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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Description

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Unified Doctoral Engineering Program

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Engineering_PhD). (http://www.unl.edu/gradstudies/prospective/programs/Engineering_PhD)

Graduate Engineering Board: Professor and Associate Dean Chandra (Interim Director of Graduate Studies); Professors Bishu, Eisenhauer, Foster, Liu, Robertson, Rothermel, Sharif, Tadros, To; Associate Professors Balkir, Berryman, Dvorak, Farritor, Negahban

Courses of study in engineering leading to the doctoral degree are offered through a Unified PhD Engineering Program which is governed by a graduate board of faculty members elected from each participating field in the college. In addition to addressing the traditional engineering fields, this program encourages multidisciplinary approaches to engineering research. Faculties of the various engineering departments and programs (agricultural and biological systems, architectural, chemical, civil, computer science and engineering, electrical, engineering mechanics, industrial and management systems and mechanical engineering) staff eleven PhD fields of study: agricultural engineering; architectural engineering; biological systems engineering; biomedical engineering; civil

engineering; chemical and materials engineering; computer engineering; electrical engineering; engineering mechanics; industrial, management systems and manufacturing engineering; and mechanical engineering. Students interested in studies leading to the PhD degree in engineering should contact the:

Director of Graduate Studies
College of Engineering
University of Nebraska–Lincoln
114 Othmer Hall
PO Box 880642
Lincoln, NE 68588–0642

Students with a BS degree in engineering or in a related science or mathematics field may apply for direct admission to the engineering PhD program. An engineering MS degree is not required for admission to the PhD program; however, students with only a BS degree may be required to complete an engineering MS degree before PhD program admission is granted. Students with a degree in a discipline other than their chosen field of study for the PhD degree may be required to take prerequisite deficiencies.

Admission to the PhD program depends upon the student's previous academic performance and their preparedness to pursue advance research and course work. It is highly recommended that all students submit GRE scores, three letters of recommendation, and a statement of purpose for pursuing the degree. Faculty members associated with each PhD field will review the merit of the application as a whole in establishing whether to recommend admission; thus a student may be required to provide additional application materials beyond that which is required by the Graduate College. Submission materials should be sent directly to the Director of Graduate Studies to avoid unnecessary delays during the application review process. Graduates from unaccredited engineering programs or from non-engineering programs must submit GRE scores. Graduates from foreign universities are required to submit GRE scores, as well as TOEFL scores, where appropriate for evaluation before admission.

Demonstration of foreign language proficiency or of competence in special research techniques is not a general requirement for the engineering PhD degree. Decisions concerning such requirements are within the purview of the individual supervisory committees and will be consistent with the educational objectives of the student.

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Master of Engineering Program

Master of Engineering Board: Professors Woldstad (chair), Merkel, Foster; Associate Professors Berryman, Liu, Nguyen; Assistant Professor Goddard

The master of engineering is a professional practice-oriented degree program in engineering. It is designed for individuals who possess at least one degree in engineering but is also available for exceptional individuals who have significant engineering practice and a degree in a related field. The MEng degree program provides a student with additional broad-based technical education in a selected area of concentration. The student must select an area of concentration. Currently available areas of concentration are:

- Construction (CNST)
- Engineering Management (EMGT)
- Telecommunications Engineering (TELE)
- Architectural Engineering (AREN)

The area of concentration graduate committees will evaluate the qualifications of the students for admissions and make recommendations to the Master of Engineering Board and to the Dean of Graduates Studies. Each area of concentration has different requirements consistent with its focus.

Concentrations

▪ Construction

This area of concentration requires two years of engineering or equivalent construction work experience, a bachelor of science (or higher) degree in engineering or quantitative area, one semester of analytic geometry/calculus I, and one semester of statistics. The program requires 36 graduate hours which includes 18 hours of core courses in construction focus areas, 9 hours of business electives and 9 hours of secondary area electives. Eighteen of the 36 hours must be from courses open only to graduate students. The program is designed for individuals who wish to pursue advanced studies in construction related areas. Flexibility within the program allows students to pursue a variety of related topics that will impact any construction oriented organization. If you have questions about this degree program, contact udurhams@unlnotes.unl.edu.

▪ Engineering Management

This area of concentration is offered as an on-line distance education only program. It requires two years of engineering work experience, a BS in engineering or quantitative area, at least one year of calculus, a calculus-based probability and statistics course, an engineering economy course and at least one engineering science course for admission. The program requires 36 graduate hours which includes 18 hours from industrial and management systems engineering and 9 hours from management or business administration. Eighteen of the 36 hours completed must be open exclusively to graduate students. The program is for those who wish to acquire knowledge and skills for the administration and management in the engineering profession. The degree combines advanced engineering and management education. The graduate coordinator for this area of concentration is Dr. Jeff Woldstad.

▪ Telecommunications Engineering

This area of concentration requires two years of practical engineering experience and a BS degree in electronics engineering, computer engineering, electrical engineering, electronics engineering technology or related degree with sufficient engineering mathematics for admission. The program requires 36 graduate hours including 12 hours in core of computer and electronics engineering course, 9 hours of approved courses in telecommunications from computer and electronics engineering, electrical engineering, computer science and engineering, and information science and technology, and 9 hours from approved courses in information systems, business administration, and mathematics and statistics. The program prepares the student for the engineering practice in the advanced areas of telecommunications engineering such as high-speed networks, wireless communications and optical communications. The graduate coordinator for this area of concentration is Dr. Hamid Sharif-Kashani.

▪ Architectural Engineering

This area of concentration requires at least six months of architectural engineering or related engineering area work experience, a bachelors degree in engineering, completion of all engineering mathematics and physics courses required by the College of Engineering for a bachelor of engineering degree. The program requires 36 graduate hours which includes 27 hours of architectural engineering and related areas and 9 hours of management or business administration. Twelve of the 36 hours must be from courses open exclusively to graduate students. This degree program is for individuals with a degree in engineering or a quantitative area who have engineering work experience and who wish to acquire knowledge and skills for higher level technical work, and who want an introduction to administration and management in the engineering profession. The graduate coordinator for this area of concentration is Dr. Lily Wang.

Architectural Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ArchitecturalEngineering).
(<http://www.unl.edu/gradstudies/prospective/programs/ArchitecturalEngineering>)

School Director: Eddy Rojas, Ph.D.

Graduate Chair: Lily Wang, Ph.D.

Programs leading to the master of architectural engineering (MAE), master of science (MS), and the doctor of philosophy (PhD) degrees are offered by the Architectural Engineering Program within the Durham School of Architectural Engineering and Construction. There are five primary areas of emphasis: building structural systems; building lighting systems; building electrical systems; building heating, ventilation and air-conditioning systems; and building acoustical systems.

Students entering the graduate program are expected to have undergraduate training that covers the fundamental courses within a bachelors degree in engineering. Students with undergraduate backgrounds in fields other than engineering may be required to take additional prerequisite course work. Foreign students without degrees from United States institutions are required to take the TOEFL and GRE general examinations. Further details concerning Program application requirements and procedures can be obtained by contacting the Program Graduate Chair.

Masters Degrees

(1) The master of architectural engineering (MAE) degree is intended primarily for students who have graduated with a bachelor of science degree in architectural engineering (BSAE) from the University of Nebraska. This is a professional (Option III) degree requiring 36 hours of graduate credit course work, without a thesis. (2) The master of science (MS) degree is a research-oriented (Option I) program, preparing graduates for professional positions in building design and manufacturing firms where research skills are beneficial or for graduate study in a specialized field of architectural engineering at the doctoral level. A minimum total of 30 hours of graduate credit, consisting of a minimum of 24 hours of regular course work and a minimum of 6 hours of masters thesis, is required. (3) Studies leading to a master of engineering (MEng) degree with concentration in architectural engineering are conducted under the College of Engineering's master of engineering (MEng) degree program. (<http://engineering.unl.edu/graduate-programs/MEng.shtml>) This program is intended primarily for graduates of engineering programs in fields other than architectural engineering who are now working in architectural engineering related positions.

Doctor of Philosophy Degree

Studies leading to a PhD degree in engineering (<http://www.unl.edu/gradstudies/prospective/programs/ArchitecturalEngineering>) are conducted under the College of Engineering's unified doctoral engineering program.

Biological Systems Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/AqAndBioSystemsEngr).
(<http://www.unl.edu/gradstudies/prospective/programs/AqAndBioSystemsEngr>)

Interim Department Head: Milford Hanna, Ph.D.

Graduate Committee: Professors Eisenhauer (chair), Hanna, Associate Professors Bashford, Irmak, Woldt; Assistant Professor Keshwani

The Department of Biological Systems Engineering offers graduate programs leading to the master of science with a major in agricultural and biological systems engineering and the PhD in engineering with a specialization in agricultural and biological systems engineering or biomedical engineering. Also, the department offers a master of science with a major in mechanized systems management and is a cooperating department offering a master of science with a major in environmental engineering.

Students wishing to pursue graduate work in agricultural and biological systems engineering must meet the admission requirements for students in engineering.

Graduate study in this area may be directed to the fields of soil and water conservation, irrigation system design, ground and surface water management, water quality, plant environment, bioprocessing, animal well being, risk assessment, environmental engineering, animal waste management, solid and hazardous waste management, materials handling and processing systems, food process engineering, computer applications, monitoring and controlling biological systems, decision support systems, global positioning systems, geographic information systems, agricultural power and machinery systems, control systems, and other areas of engineering science and design related to agricultural and biological systems. The program in meteorology and climatology is available with degree options in engineering, agronomy, or horticulture.

Masters Degree.

Graduate programs leading to the degree of master of science with a major in agricultural and biological systems engineering are governed by the general requirements for graduate degrees and the rules of the Graduate College. With approval of the departmental Graduate Committee and the Graduate Council, course work at the graduate level from other areas of engineering may be used as part of the course work constituting a major in agricultural and biological systems engineering. Minors in Environmental Studies and Water Resources Planning and Management are available.

Doctor of Philosophy Degree.

Studies leading to a PhD degree in engineering are conducted under the engineering doctoral program.

Biomedical Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/BiomedicalEngr).
(<http://www.unl.edu/gradstudies/prospective/programs/BiomedicalEngr>)

Field Chair: Shane Farritor, Ph.D.

This program in the College of Engineering is designed to promote interdisciplinary research at the graduate level within the College and within the University system as a whole. Students come from undergraduate degrees in various branches of engineering, physics, chemistry, biology, and mathematics. They take 24 graduate-level engineering classes, and at least 12 graduate-level credit hours in biomedical sciences.

At this time, there is no formal degree program in biomedical engineering at the masters degree level, however, students can obtain masters degrees in traditional degree programs of their strength, with an emphasis in biomedical research programs.

Chemical and Biomolecular Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ChemicalAndBiomolecularEngr).
(<http://www.unl.edu/gradstudies/prospective/programs/ChemicalAndBiomolecularEngr>)

Department Chair: William H. Velander, Ph.D.

Graduate Committee: Associate Professor Larsen (chair); Professor Viljoen; Assistant Professor Nouredini

To begin candidacy for the masters degree, a student must have completed an undergraduate major in chemical engineering or have completed all required deficiency courses.

All applicants for admission must take the verbal, quantitative, and analytical sections of the Graduate Record Exam (GRE) and should arrange to have the scores reported to the Graduate Studies Office at the University of Nebraska-Lincoln at the earliest possible date since action on admitting the applicant will not be taken before these scores are received. In order to receive favorable consideration for admission an applicant should score at least 400 on the verbal and 700 on the

quantitative and analytical sections of the GRE. The Advanced Engineering Test is recommended for applicants for financial aid. The Department of Chemical Engineering reserves the right to consider admission without the GRE in exceptional cases. All international applicants must complete the TOEFL with at least a score of 550.

Masters Degree.

The masters degree requires a minimum of 30 credit hours which includes a required thesis. Of these 30 credit hours, 12 are in required core courses (Advanced Chemical Engineering Analysis, Theoretical and Applied Thermodynamics for Chemical Engineers, Transport Phenomena, and Advanced Chemical Engineering Kinetics) and 6 in a required thesis. Students must take required core courses the first time they are offered. All elective courses must be approved by the student's thesis supervisor or the Chair of the Department's Graduate Committee. Students are required to pass either a comprehensive examination or a final oral examination, at the discretion of the thesis supervisor.

Doctor of Philosophy Degree.

Courses of study leading to the doctoral degree are offered through a unified PhD program in engineering which is governed by a graduate board of faculty members elected from each participating department. In addition to addressing the traditional engineering fields, this program encourages multidisciplinary approaches to engineering research.

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Civil Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/CivilEngineering).
(<http://www.unl.edu/gradstudies/prospective/programs/CivilEngineering>)

Interim Department Chair: Andrzej Nowak, Ph.D.

Graduate Committee: Associate Professors Jones (Chair), Tuan; Assistant Professors Bartelt–Hunt, Guo, Kim

Graduate work in civil engineering is governed by the general requirements of the Graduate College. Selection of the option and program are subject to approval by the student's adviser and the departmental Graduate Committee.

A student applying for admission should designate the primary area in which he/she wishes to study. Major work for the master of science degree may be selected from the areas of environmental, geotechnical, structural, transportation, and water resources engineering. A minor area may be designated from any one of the related civil engineering areas or from other related departments such as in construction management. Other supporting courses may be selected from advanced or graduate courses having some relation to the major group.

Masters–level specializations available:

Environmental Studies; Geotechnical Engineering; Structural Engineering; Transportation Engineering; Water Resources Planning and Management.

Doctor of Philosophy Degree.

Studies leading to a PhD degree in engineering are conducted under the engineering doctoral program. Refer to the main "Engineering" section.

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Construction

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Construction).
(<http://www.unl.edu/gradstudies/prospective/programs/Construction>)

Program Director: Eddy Rojas, Ph.D.

Graduate Committee Chair, Terry Stentz, Ph.D.

Degree programs leading to the master of engineering with a concentration in construction, master of science in construction, and doctor of philosophy in engineering (with a specialization in construction) are offered in a unique blend of courses and graduate research in business, construction management, construction engineering, engineering, architecture, law, and related disciplines. The emphasis is on advanced studies in construction with application to a broad range of construction activities and applied research. For more information on the MEng program, refer to the "Master of Engineering Program" section.

A doctoral specialization is available in construction in the unified engineering major.

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Electrical Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ElectricalEngineering).
(<http://www.unl.edu/gradstudies/prospective/programs/ElectricalEngineering>)

Department Chair: Jerry Hudgins, Ph.D.

Graduate Committee Chair: Sina Balkir, Ph.D.

Website: www.ee.unl.edu

The graduate program in the Department of Electrical Engineering is governed by the general requirements of the Graduate College. In addition, the department requires the aptitude and analytical parts of the Graduate Record Examination of all students. A student who wishes to work toward a graduate degree in electrical engineering must have completed a substantial undergraduate program in electrical engineering or its equivalent.

Doctor of Philosophy Degree.

Studies leading to a PhD degree in engineering are conducted under the engineering doctoral program.

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Engineering Mechanics

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EngineeringMechanics).
(<http://www.unl.edu/gradstudies/prospective/programs/EngineeringMechanics>)

Department Chair: Joseph A. Turner, Ph.D.

Graduate Committee Chair: Mehrdad Negahban, Ph.D.

Website: www.unl.edu/emhome/grad/default.html

Candidates for an advanced degree in engineering mechanics must be graduates of an accredited program in engineering or a closely related area.

Graduate study in this department places strong emphasis on the fundamentals of engineering science. This is combined with advanced study in specialty areas in mechanics, materials, mathematics and physical sciences. The program of study is closely related to the research program. Current areas of research are: **analytical mechanics**, including dynamics, vibrations, nonlinear mechanics and stress waves; **computational mechanics**, including finite and boundary element methods, meshless methods, and optimization of materials and structures; **mechanics of materials**, including the study of static, dynamic, thermal, and other effects in metals, polymers, nanomaterials, nanofibers, and composites; **mechanics of solids**, including linear and nonlinear elasticity, plasticity, viscoelasticity, piezoelectricity, damage, fatigue and fracture mechanics.

The Department provides a simultaneous double master in Mechanics and Materials with the University of Rouen (UR) in France. Students in this program spend one year at UNL and one year at UR. Upon satisfactory completion of the program, students are simultaneously awarded a master of science in engineering mechanics from UNL and a master of science in materials (InCoMatex CEPMI) from UR.

Admission and financial assistance is offered on a competitive basis. Graduates of foreign universities or of non–accredited engineering programs are strongly urged to submit GRE scores. Foreign applicants whose native language is not English must submit a TOEFL score of 213 or better for the computer–based TOEFL.

Further information about the MS and PhD degree programs is available upon request from the Chairperson of the Graduate Committee.

Master of Science Degree.

It is expected that all students in this program will have the necessary prerequisites for, or credits in, ENGM 847 (Advanced Dynamics) or 875 (Vibration Theory and Applications), and ENGM 848 (Advanced Mechanics of Materials).

Doctor of Philosophy Degree.

Studies leading to a PhD degree in engineering are conducted under the engineering doctoral program. Candidates for this degree are required to take a qualifying examination conducted by the Engineering Mechanics Graduate Committee.

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Environmental Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EnvironmentalEngineering).
(<http://www.unl.edu/gradstudies/prospective/programs/EnvironmentalEngineering>)

Program Director: Bruce I. Dvorak, Ph.D., P.E.

Program Committee: Professor Dvorak (Chair); Professors Comfort, Hendrix, Schulte; Assistant Professor Bartelt–Hunt

Cooperating Departments: Biological Systems Engineering, Civil Engineering, Chemical Engineering

The Departments of Biological Systems Engineering, Civil Engineering, and Chemical Engineering at the University of Nebraska jointly administer a multi-disciplinary program of teaching and research leading to the masters of science in environmental engineering (MS) degree. Environmental engineering faculty members in the three departments offer a balance of expertise covering four major areas of environmental engineering, as sanctioned by the American Academy of Environmental Engineers (AAEE). The fields in which students may concentrate include: water supply engineering, wastewater engineering, hazardous waste management engineering, and solid waste management engineering. In addition, a fifth area in diffuse (non–point) and agricultural waste management engineering is offered.

The area committee evaluates the qualifications of students for admission into the program. Students can work toward the degree under either Option I or Option II, and all requirements under those options must be met. All students are required to complete CIVE 828 (Quantitative Methods in Environmental Engineering, 3 cr), CIVE 829 (Biological Treatment Processes, 3 cr), and CIVE 823 (Physical Chemical Treatment Processes, 3 cr). All students must also take ENVE 990 (Seminar in Environmental Engineering, 1 cr). Attendance and participation in another seminar also may be required by the student's home department. Students having equivalent courses from a previous degree program may substitute or waive a core course or courses, with the express written approval of the MSEE Graduate Committee. Working with their advisers, students are expected to formulate coherent programs of research and study. Any student receiving support as a teaching and/or research assistant from the program is expected to enroll under Option I and complete a thesis.

In addition, the courses listed below are offered by the participating departments.

Offered in the Department of Biological Systems Engineering

AGEN 853. Irrigation & Drainage Systems Engineering
AGEN 953. Advanced Irrigation & Drainage Systems Engineering
AGEN 954. Hydrologic Modeling of Small Watersheds
AGEN 955. Solute Movement in Soils (AGRO 955, CIVE 955)
BSEN 846. Unit Operations of Biological Processes
BSEN 855. Nonpoint Source Pollution Control Engineering (CIVE 855)
BSEN 941. Agricultural Waste Management
BSEN 943. Bioenvironmental Engineering

Offered in the Department of Chemical Engineering

CHME 832. Transport Operations
CHME *835. Transport Phenomena
CHME 842. Chemical Reactor Engineering & Design
CHME *845. Advanced Chemical Engineering Kinetics
CHME 873. Biochemical Engineering
CHME 892. Air Pollution Assessment & Control

Offered in the Department of Civil Engineering

CIVE 819. Flow Systems Design
CIVE 821. Hazardous Waste Management
CIVE 822. Pollution Prevention
CIVE 823. Physical/Chemical Treatment Processes
CIVE 824. Solid Waste Management Engineering
CIVE 826. Design of Water Treatment Facilities
CIVE 827. Design of Wastewater Treatment & Disposal Facilities
CIVE 828. Quantitative Methods in Environmental Engineering
CIVE *829. Biological Waste Treatment
CIVE 830. Fundamentals of Water Quality Modeling
CIVE 831. Small Treatment Systems
CIVE 852. Water Resources Development
CIVE 854. Hydraulic Engineering
CIVE 855. Nonpoint Source Pollution Control Engineering (BSEN 855)
CIVE 856. Surface Water Hydrology
CIVE 858. Groundwater Engineering
CIVE 875. Water Quality Strategy (AGRO 875, etc.)
CIVE 915. Water Resources Engineering
CIVE 916. Interdisciplinary Seminar in Engineering Economics & Legal Aspects of Water Resources Systems
CIVE 921. Advanced Topics in Hazardous Waste Treatment
CIVE 926. Advanced Topics in Water Treatment
CIVE 927. Advanced Topics in Wastewater Treatment
CIVE 929. Industrial Waste Lab
CIVE 952. Water Resources Planning
CIVE 954. Advanced Hydraulics
CIVE 955. Solute Movement in Soils (AGEN 955, AGRO 955)
CIVE 958. Groundwater Mechanics
CIVE 959. Groundwater Modeling

Ω

Industrial and Management Systems Engineering

The department is no longer accepting applications. Current students will be able to complete their programs.

Department Chair and Graduate Committee Chair: Jeffrey Woldstad, Ph.D.

[Ω](#)

Manufacturing Systems Engineering

(Interdepartmental Area)

Area Committee Chair: Professor Ballard

Departments Cooperating: Electrical Engineering, Industrial and Management Systems Engineering, Mechanical Engineering, and Management

The Area Committee will evaluate the qualifications for the admission of students leading to the master of science degree. The work for the degree may be done under either Option I or Option II, and all requirements under those options must be met. In place of the usual major requirements, the masters program must include at least one half of the program from courses listed as the core area. Course work must be taken in at least three of the participating areas. The minor, if needed, must include 9 hours in any one of the participating departments, and these 9 hours may include core courses if they have not been used on the program to meet core course requirements in the major. Additional courses other than those listed may be used in the program upon approval of the Area Graduate Committee.

Courses listed below are offered by the participating departments.

Offered in the Department of Electrical Engineering

- 851. Linear System Analysis & Design
- 863. Digital Signal Processing
- 871. Continuous System Simulation
- 944. Digital & Sampled Data Control Systems
- 945. Optimal Control Theory
- 946. Optimal Filtering, Estimation & Prediction

Offered in the Department of Industrial and Management Systems Engineering

- 805. Analysis of Engineering Management
- 806. Decision and Risk Analysis
- 807. Project Management
- 810. Ergonomics
- 812. Occupational Safety – A Systems Analysis
- 815. Cognitive Ergonomics
- 816. Physical Ergonomics
- 817. Occupational Safety Hygiene Engineering
- 821. Applied Statistics and Quality Control
- 822. Industrial Quality Control
- 823. Reliability Engineering
- 828. Stochastic Operations Research Models
- 831. Stochastic Processes
- 832. Scheduling
- 840. Discrete Event Simulation Modeling
- 860. Packaging Engineering
- 861. Radio Frequency Identification
- 870. Theory and Practice of Materials Processing
- 871. Tool and Die Design
- 875. Manufacturing Systems I
- 876. Manufacturing Information Systems
- 877. Robotics
- 881. Supply Chain Optimization
- 882. Material Planning in Logistic Systems
- 883. Logistics in the Supply Chain
- 898. Laboratory Investigation
- 899. Masters Thesis
- 901. Total Quality Management Using Six Sigma Techniques
- 905. Analysis of Engineering Management II
- 906. Financial Engineering
- 914. Physiological Aspects of Ergonomics
- 915. Biomechanics
- 916. Biotechnology
- 919. Determinants of Occupational Performance
- 922. Quality Engineering. Use of Experimental Design and Other Techniques
- 923. Manufacturing and Dynamic Systems Modeling
- 970. Advanced Manufacturing Processes
- 975. Manufacturing Systems II
- 984. Advanced Simulation Modeling
- 991. Seminar
- 996. Advanced Topics in Industrial Engineering
- 998. Advanced Laboratory Investigation

Offered in the Department of Mechanical Engineering

- 850. Mechanical Engineering Control Systems
- 952. Digital Control of Mechanical Systems

Offered in the Department of Management

- 931. Operations Planning & Control Systems
- 994. Seminar in Selected Topics I
- 995. Seminar in Selected Topics II

[Ω](#)

Materials Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/MaterialsEngineering). (<http://www.unl.edu/gradstudies/prospective/programs/MaterialsEngineering>)

For a brief description of the program, application requirements and contact information, view the graduate program summary. (Interdepartmental Area)

Area Committee Chair: Professor Brian W. Robertson

Departments Cooperating: Chemical and Biomolecular Engineering, Electrical Engineering, and Mechanical and Materials Engineering Description of Program Materials engineering involves the investigation and application of the fundamental physics, chemistry, and engineering of materials in order to create, develop, and use materials with superior and new properties for manufacturing processes and engineering design. The discovery, research, development, and applications of materials are major reasons behind the adoption, widespread availability, cost reduction, innovations, and improvements in biomedical, energy, information, transportation, communications, security, home, and entertainment technologies.

The objectives in the Materials Engineering area are: (1) to involve students in research and creative activity in new aspects and applications of materials engineering; (2) to prepare students for careers in the research, development, and applications of new and advanced materials; and (3) to provide students with a foundation for work in industry, commerce, national and corporate laboratories, and academia.

Students have access to many experimental and computational research laboratories and facilities in the four departments and in the Nebraska Center for Materials and Nanoscience. To learn more about these core facilities visit <http://www.unl.edu/ncmn/index.shtml> (<http://www.unl.edu/ncmn/index.shtml>).

The Area Committee will evaluate the qualifications for the admission of students leading to the doctoral degree. Students are required to complete a minimum of 36 credit hours of courses. No single listing of required courses or course sequences is appropriate for an area as broad as Materials Engineering; the exact program of studies instead is determined jointly by the student and the student's major adviser, subject to the approval of the student's supervisory committee. It is expected that the great majority of courses (at least about two-thirds) that a student takes will be closely relevant to the specialization. Typically, the program of studies will include a relevant graduate level mathematics course and at least one course in each of the following four major subject areas: mechanical aspects of materials; physical aspects of materials; chemical aspects of materials or thermodynamics of materials; and materials simulation or characterization of materials. In addition, at least three elective courses in materials topics are expected. Other courses (the remaining minimum of 12 credit hours) could be taken in materials topics or in other subjects approved by the major adviser and supervisory committee. The approval of the final Program of Studies follows the requirements of the Graduate College.

To satisfy comprehensive and advanced qualifying exam requirements, all students are required to pass an advanced qualifying exam in which the student writes a research proposal and then presents and defends the research proposal orally. This exam serves to guide the student, major adviser and supervisory committee in determining whether any additional course(s) should be taken as part of the degree program.

Courses that students may take in consultation with their advisers and supervisory committees include, but are not limited to, the following:

CHEM 881 Physical Chemistry
CHEM 943 Solid State Chemistry
CHME 823 Chemical Engineering Thermodynamics and Kinetics
CHME 882 Polymers
ELEC 816 Materials and Devices for Computer Memory, Logic, and Display
ELEC 817 Semiconductor Fundamentals II
ELEC 820 Plasma Processing of Semiconductors
ELEC 821 Solid State Physical Electronics
ELEC 822 Introduction to the Physics and Chemistry of Solids (PHYS 822)
ELEC 968 Electron Theory of Solids I
ELEC 970 Electron Theory of Solids II
ELEC 975 Optical Properties of Materials
ENGM 852 Experimental Stress Analysis
ENGM 910 Continuum Mechanics
ENGM 930 Mechanics of Composite Materials
ENGM 940 Fracture Mechanics
ENGM 941 Mechanics of Dislocations and Cracks
MECH 824 Laser Material Processing with Compressible Flow Perspective
MECH 826 Heat Transfer at Nanoscales and in Ultrashort Time Domains
MECH 836 Introduction to Continuum Biomechanics
MECH 922 Conduction Heat Transfer
METL 860 Mechanical Aspects of Materials
METL 861 Materials Laboratory II
METL 862 X-Ray Diffraction
METL 864* Thin Films and Surface Engineering
METL 865 Applied Physical Metallurgy and Design
METL 866 Materials Selection for Mechanical Design
METL 867 Principles of Powder Metallurgy
METL 868 Failure Analysis: Prevention and Control
METL 869 Physical Materials Science
METL 870 Thermodynamics of Alloys
METL 871 Electron Microscopy of Materials
METL 872 Kinetics of Alloys
METL 873 Corrosion
METL 874 Extractive Metallurgy
METL 875* Glass and Ceramic Materials
METL 898 Special Topics
METL 960 Materials Aspects of Fracture
METL 962 Imperfections in Crystals
METL 970 Advanced Thermodynamics of Materials
METL 972 Transformation in Materials
METL 998 Advanced Materials Topics
PHYS 822 Introduction to the Physics and Chemistry of Solids (ELEC 822)
PHYS 927 Introduction to Solid State Physics

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Mechanical Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/MechanicalEngineering).
(<http://www.unl.edu/gradstudies/prospective/programs/MechanicalEngineering>)

Interim Department Chair: Jeffrey E. Shield, Ph.D.

Graduate Committee: Professors Reid (chair), Robertson; Associate Professors Farritor, Zhang

Programs leading to the master of science and the doctor of philosophy degrees are offered by the Department of Mechanical Engineering. There are three primary areas of emphasis: thermal-fluids engineering, systems-design engineering, and metallurgical engineering.

Students entering the graduate program are expected to have undergraduate training substantially equivalent to that of a bachelors degree in mechanical engineering. Students with undergraduate backgrounds in fields other than mechanical engineering may be required to take additional prerequisite course work. Foreign students without degrees from United States institutions are required to take the TOEFL and GRE general examinations with a minimum TOEFL score of 550 paper based (213 computer based, 79 Internet based) and minimum GRE scores of 600 quantitative and 2.5 writing. Further details concerning Departmental application requirements and procedures can be obtained by contacting the Departmental Graduate Chair.

Masters Degree.

Unless specific permission is given, the student must complete requirements for the degree under Option I. For Option I, a minimum total of 30 hours of graduate credit, consisting of a minimum of 24 hours of regular course work and a minimum of 6 hours of masters thesis, is required. Of the 24 hours of regular course work: a minimum of 12 hours must be taken within the Mechanical Engineering Department, at least one 3-hour mechanical engineering course must be taken in an area outside the student's primary area of emphasis, and at least one 3-hour course must be taken in engineering mathematics. A transfer of a maximum of 6 credit hours is allowed with approval by the Department Graduate Committee. The student may complete requirements for the degree under Options II and III. Further details concerning departmental masters degree requirements can be obtained by contacting the Departmental Graduate Chair.

Students may get a masters degree in mechanical engineering with an area of specialization in materials science engineering or metallurgy. Further details concerning Departmental requirements concerning the materials science engineering area of specialization can be obtained by contacting Dr. Brian Robertson.

Doctor of Philosophy Degree.

Studies leading to a PhD degree in [engineering](http://engineering.unl.edu) (<http://engineering.unl.edu>) are conducted under the engineering doctoral program.

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Telecommunications Engineering

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TelecommunicationsEngr).
(<http://www.unl.edu/gradstudies/prospective/programs/TelecommunicationsEngr>)

Department Chair: Dr. Bing Chen

Graduate Chair: Dr. Hamid Sharif

The Department of Computer and Electronics Engineering offers courses of study leading to the master of science in telecommunications engineering. This program provides advanced education and research to develop breadth of knowledge and depth of expertise in the engineering of telecommunication networks and systems. Strong emphasis is placed on the areas of High Speed/Broadband Computer Communications Networks, Optical Communications, and Wireless/Satellite Communications. Specialized state-of-the-art laboratories and computer facilities are available in the above three areas.

This program is a UNL program offered in Omaha at the **Peter Kiewit Institute**. Students may take some of the courses through the Electrical Engineering and the Computer Science and Engineering Departments on the Lincoln Campus. For more information, please visit the department's Website: www.ceen.unomaha.edu.

For admission to this program, a student must have a bachelor of science degree in computer engineering, electrical engineering, electronics engineering or a closely related area.

The CEEN Department offers three areas of concentrations leading to the MS degree in Telecommunications Engineering. The choice of MS option depends on the interests and future plans of the student. The length of time necessary to complete the MS program varies, but is typically two years for full-time enrollment.

- **Option I:** The vast majority of MS students in the CEEN Department choose Option I. Students considering a PhD degree would also generally choose this option. For this degree option, a minimum of 30 credit hours which includes a written thesis are required. At least 6 credit hours must be taken as thesis research. Of the remaining hours, a minimum of 24 hours of formal course work must be taken with at least 9 credit hours in **graduate-only courses**. Of the total minimum of 30 credit hours, at least 15 credit hours must be **CEEN credits**.
- **Option II:** Option II does not require thesis research and provides the student with a broader range of courses in his/her program. Normally, this option is not appropriate for students interested in continuing with a PhD degree. A minimum of 36 credit hours of formal course work are required and a single minor must be designated. The program must consist of a minimum of 18 credit hours in **CEEN** and 9 hours in the **minor field**. A minimum of 12 credit hours of **graduate-only courses** are required.
- **Option III:** Option III does not require a master's thesis but has a minimum course requirement of 36 credit hours. At least 18 credit hours must be earned in **graduate-only courses**. A minimum of 18 credit hours must be **CEEN courses**. No minor is required.

Faculty

Architectural Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ArchitecturalEngineering).
(<http://www.unl.edu/gradstudies/prospective/programs/ArchitecturalEngineering>)

Biological Systems Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/AgAndBioSystemsEngr).
(<http://www.unl.edu/gradstudies/prospective/programs/AgAndBioSystemsEngr>)

Chemical and Biomolecular Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ChemicalAndBiomolecularEngr).
(<http://www.unl.edu/gradstudies/prospective/programs/ChemicalAndBiomolecularEngr>)

Civil Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/CivilEngineering).
(<http://www.unl.edu/gradstudies/prospective/programs/CivilEngineering>)

Construction

For faculty research list, interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Construction).
(<http://www.unl.edu/gradstudies/prospective/programs/Construction>)

Electrical Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ElectricalEngineering).
(<http://www.unl.edu/gradstudies/prospective/programs/ElectricalEngineering>)

Engineering Mechanics

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EngineeringMechanics).
(<http://www.unl.edu/gradstudies/prospective/programs/EngineeringMechanics>)

Environmental Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EnvironmentalEngineering).

<http://www.unl.edu/gradstudies/prospective/programs/EnvironmentalEngineering>

Industrial and Management Systems Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](#).

<http://www.unl.edu/gradstudies/prospective/programs/IndustrialMgmtSystemsEngr>

Manufacturing Systems Engineering

For faculty list, research interests, view the [graduate program summary](#). <http://www.unl.edu/gradstudies/prospective/programs/IndustrialMgmtSystemsEngr>

Materials Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](#).

<http://www.unl.edu/gradstudies/prospective/programs/MaterialsEngineering>

Mechanical Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](#).

<http://www.unl.edu/gradstudies/prospective/programs/MechanicalEngineering>

Telecommunications Engineering

For faculty list, research interests and department contact information, view the [graduate program summary](#).

<http://www.unl.edu/gradstudies/prospective/programs/TelecommunicationsEngr>

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English

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Courses for ENGL (ENGL)

AHIS

988

Introduction to the Interdisciplinary Study of the Middle Ages

[LINK \(http://bulletin.unl.edu/courses/AHIS/988\)](http://bulletin.unl.edu/courses/AHIS/988)

Crosslisted as *ENGL 988, HIST 988, MODL 988, MUSC 988*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Middle Ages. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AHIS

989

Introduction to the Interdisciplinary Study of the Renaissance

[LINK \(http://bulletin.unl.edu/courses/AHIS/989\)](http://bulletin.unl.edu/courses/AHIS/989)

Crosslisted as *ENGL 989, HIST 989, MODL 989, MUSC 989*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Renaissance. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CLAS

483/883

Classical Drama

[LINK \(http://bulletin.unl.edu/courses/CLAS/483\)](http://bulletin.unl.edu/courses/CLAS/483)

Crosslisted as *ENGL 440/840*

Prereqs:
Senior standing or permission.

Greek and Roman tragedy and comedy in translation.

Credit Hours:	3
Course Delivery:	Classroom

ENGL

401/801

Drama

[LINK \(http://bulletin.unl.edu/courses/ENGL/401\)](http://bulletin.unl.edu/courses/ENGL/401)

Prereqs:
Junior standing; two courses in ENGL above 199.

Particular historical periods or other groupings of dramas. The relation of the writers both to one another and to the aesthetic and intellectual climate of their times. Examples: drama survey, modern drama, American drama, and Shakespeare's contemporaries in drama.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

Gay and Lesbian Drama[LINK \(http://bulletin.unl.edu/courses/ENGL/401K\)](http://bulletin.unl.edu/courses/ENGL/401K)**401K/801K****Prereqs:**
Junior standing.

Overview of contemporary gay and lesbian drama.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

Poetry[LINK \(http://bulletin.unl.edu/courses/ENGL/402\)](http://bulletin.unl.edu/courses/ENGL/402)**402/802****Prereqs:**
Junior standing; two courses in ENGL above 199.

Epic, Renaissance, Romantic, Victorian, American, and contemporary poetry.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

Romantic Poetry[LINK \(http://bulletin.unl.edu/courses/ENGL/402L\)](http://bulletin.unl.edu/courses/ENGL/402L)**402L/802L****Prereqs:**
Junior standing; two courses in ENGL above 199.

Survey of British poetry, 1780–1835. The traditional major authors and some of the many other poets whose works were popular and influential. The social, historical, and cultural context.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

American Short Story[LINK \(http://bulletin.unl.edu/courses/ENGL/403\)](http://bulletin.unl.edu/courses/ENGL/403)**403/803****Prereqs:**
Junior standing; two courses in ENGL above 199.

The narrative genre of the short story, as represented by stories from American authors of the nineteenth century to the present day.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

Fiction[LINK \(http://bulletin.unl.edu/courses/ENGL/405\)](http://bulletin.unl.edu/courses/ENGL/405)**405/805****Prereqs:**
Junior standing; two courses in ENGL above 199.

Fiction, primarily novels, in particular historical periods or other groupings. The relation of the writers both to one another and to the aesthetic and intellectual climate of their time.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

19th Century British Novel[LINK \(http://bulletin.unl.edu/courses/ENGL/405A\)](http://bulletin.unl.edu/courses/ENGL/405A)**405A/805A****Prereqs:**
Junior standing; two courses in ENGL above 199.

Credit Hours:	3
Course Format:	Lecture 3

The most popular and influential literary genre in the nineteenth century, the novel, through representative Romantic, Victorian, and "fin de siècle" (end of century) works.

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

18th Century British Novel

[LINK \(http://bulletin.unl.edu/courses/ENGL/405B\)](http://bulletin.unl.edu/courses/ENGL/405B)

405B/805B

Prereqs:

Junior standing; two courses in ENGL above 199.

Survey of British fiction (primarily novels), 1780–1850. Major and minor authors whose works illustrate the tastes and trends of British fiction in the early modern period. The literary, social, and cultural context.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

Modern Fiction

[LINK \(http://bulletin.unl.edu/courses/ENGL/405E\)](http://bulletin.unl.edu/courses/ENGL/405E)

405E/805E

Prereqs:

Junior standing; two courses in ENGL above 199.

Key British and American novels and short stories from about 1910 to 1950. Modernism as a literary and cultural practice. Modernism's interpretation of the revolutionary changes in culture and society in the first half of the twentieth century. The relation between modernism and postmodernism.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

Canadian Fiction

[LINK \(http://bulletin.unl.edu/courses/ENGL/405K\)](http://bulletin.unl.edu/courses/ENGL/405K)

405K/805K

Prereqs:

Junior standing.

Survey of modern Canadian novels and short stories from 1920 to the present plus some other genres. The historical and cultural context.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

American Novel I

[LINK \(http://bulletin.unl.edu/courses/ENGL/405M\)](http://bulletin.unl.edu/courses/ENGL/405M)

405M/805M

Prereqs:

Junior standing; two courses in ENGL above 199.

Survey of novels written by a variety of men and women of diverse backgrounds in the United States from the late eighteenth century to 1900.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

American Novel II

[LINK \(http://bulletin.unl.edu/courses/ENGL/405N\)](http://bulletin.unl.edu/courses/ENGL/405N)

405N/805N

Prereqs:

Junior standing; two courses in ENGL above 199.

Survey of novels written by a variety of men and women of diverse backgrounds in the United States from 1900 to the present day.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

Studies in Literary Movements[LINK \(http://bulletin.unl.edu/courses/ENGL/410\)](http://bulletin.unl.edu/courses/ENGL/410)**410/810****Prereqs:****Junior standing; two courses in ENGL above 199.**

A literary movement (national or transnational), the development of a genre, or the intellectual and historical origins of an idea, as reflected in literature. May include the literature of abolition, alternative Romanticisms, literary modernism, the literature of Civil Rights, postmodernism, and/or the avant garde movement.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

Plains Literature[LINK \(http://bulletin.unl.edu/courses/ENGL/411\)](http://bulletin.unl.edu/courses/ENGL/411)**411/811****Prereqs:****Junior standing.**

Various forms of literature seen in the historical, cultural, and aesthetic context of the North American Great Plains.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

Film[LINK \(http://bulletin.unl.edu/courses/ENGL/413\)](http://bulletin.unl.edu/courses/ENGL/413)**413/813**

May be repeated once for credit with a different topic.

Study of specific critical and historical film theory and approaches to film history using more difficult texts (both as films and as readings) for the students, to create an intense immersion into more complex films and critical readings.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	7?
Groups:	Film Studies

ENGL

Women's Literature[LINK \(http://bulletin.unl.edu/courses/ENGL/414\)](http://bulletin.unl.edu/courses/ENGL/414)**414/814**Crosslisted as *WMNS 414***Prereqs:****Junior standing.**

A particular historical or other groups of literature by and about women, seen in their aesthetic and intellectual context.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ENGL

Modern and Contemporary Women Writers[LINK \(http://bulletin.unl.edu/courses/ENGL/414B\)](http://bulletin.unl.edu/courses/ENGL/414B)**414B/814B**Crosslisted as *WMNS 414B/814B***Prereqs:****Junior standing.**

Selected women writers from the twentieth and twenty-first century.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

Introduction to Linguistics[LINK \(http://bulletin.unl.edu/courses/ENGL/420\)](http://bulletin.unl.edu/courses/ENGL/420)**420/820**

Introduction for advanced students to the history and methods of linguistics, to the theory of language, and to applications of linguistics in a variety of

Credit Hours:	3
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fields and disciplines.

Course Delivery: Classroom

Groups: ESL and Linguistics

ENGL

History of the English Language

[LINK \(http://bulletin.unl.edu/courses/ENGL/426\)](http://bulletin.unl.edu/courses/ENGL/426)

426/826

Historical development of contemporary English with particular attention to its Old and Middle English background.

Credit Hours: 3

Course Delivery: Classroom

Groups: ESL and Linguistics

ENGL

Applications of Linguistics

[LINK \(http://bulletin.unl.edu/courses/ENGL/427\)](http://bulletin.unl.edu/courses/ENGL/427)

427/827

Prereqs:
Junior standing.

Practical application of the principles of linguistics. Examples: TESOL Theory and Practice, Second Language Composition Theory and Practice, Introduction to First and Second Language Acquisition, Teaching of Grammar.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: ESL and Linguistics

ENGL

Old English

[LINK \(http://bulletin.unl.edu/courses/ENGL/428\)](http://bulletin.unl.edu/courses/ENGL/428)

428/828

Prereqs:
Junior standing; two courses in ENGL above 199.

Old English. Read and understand literary texts of the period in their historical context.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

British Authors to 1800

[LINK \(http://bulletin.unl.edu/courses/ENGL/430\)](http://bulletin.unl.edu/courses/ENGL/430)

430/830

Prereqs:
Junior standing; two courses in ENGL above 199.

The works of a particular major author, such as Chaucer, Shakespeare, or Milton situated within literary, historical, biographical, and critical context.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

Shakespeare I

[LINK \(http://bulletin.unl.edu/courses/ENGL/430A\)](http://bulletin.unl.edu/courses/ENGL/430A)

430A/830A

Prereqs:
Junior standing; two courses in ENGL above 199.

How performance-based strategies can help in understanding and in teaching Shakespeare's plays. The historical and contemporary stage practices, the performance history of these plays, and recent criticism that engages with the insights of both Performance Theory and Semiotics.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Literary and Cultural Studies

ENGL

American Authors to 1900

[LINK \(http://bulletin.unl.edu/courses/ENGL/432\)](http://bulletin.unl.edu/courses/ENGL/432)

432/832

Prereqs:
Junior standing; two courses in ENGL above 199.

The works of a particular major author seen in a wide critical context.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL **American Authors Since 1900**

433/833

[LINK \(http://bulletin.unl.edu/courses/ENGL/433\)](http://bulletin.unl.edu/courses/ENGL/433)

Prereqs:
Junior standing; two courses in ENGL above 199.

Extensive study in the works of a particular major author seen in a wide critical context.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL **Film Directors**

439/839

[LINK \(http://bulletin.unl.edu/courses/ENGL/439\)](http://bulletin.unl.edu/courses/ENGL/439)

May be repeated once for credit with a different topic.

Intensive study of the films of one director or a small group of directors, with emphasis on an auteur approach. Weekly film screenings.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	7 [?]
Groups:	Film Studies

ENGL **Ethnic Literature**

445/845

Crosslisted as *ETHN 445*

[LINK \(http://bulletin.unl.edu/courses/ENGL/445\)](http://bulletin.unl.edu/courses/ENGL/445)

Prereqs:
Junior standing.

Works of writers with connections to one or more American ethnic communities, seen in their historical, intellectual, and cultural context. Survey of ethnic literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL **Topics in African American Literature**

445B/845B

Crosslisted as *ETHN 445B*

[LINK \(http://bulletin.unl.edu/courses/ENGL/445B\)](http://bulletin.unl.edu/courses/ENGL/445B)

Prereqs:
Junior standing.

The study of a particular topic in African American poetry, fiction, and/or non-fiction prose.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL **Topics in African Literature**

445K/845K

Crosslisted as *ETHN 445K*

[LINK \(http://bulletin.unl.edu/courses/ENGL/445K\)](http://bulletin.unl.edu/courses/ENGL/445K)

Prereqs:
Junior standing.

Topics in African poetry, fiction, and/or non-fiction prose.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Groups: Literary and Cultural Studies

ENGL **Topics in Native American Literature**

[LINK \(http://bulletin.unl.edu/courses/ENGL/445N\)](http://bulletin.unl.edu/courses/ENGL/445N)

445N/845N

Crosslisted as *ETHN 445N*

Prereqs:
Junior standing.

Topics in Native American poetry, fiction, and/or non-fiction prose. Critical theory and cultural criticism.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom
Groups: Literary and Cultural Studies

ENGL **Composition and Rhetorical Theory**

[LINK \(http://bulletin.unl.edu/courses/ENGL/457A\)](http://bulletin.unl.edu/courses/ENGL/457A)

457A/857A

Prereqs:
Junior standing; two courses in ENGL above 199.

Theoretical approaches to writing instruction and to the field of composition and rhetoric.

Credit Hours: 3-4
Course Format: Lecture 3
Course Delivery: Classroom
Groups: Writing, Rhetoric, and Culture

ENGL **Writing for Film**

[LINK \(http://bulletin.unl.edu/courses/ENGL/459\)](http://bulletin.unl.edu/courses/ENGL/459)

459/859

Development of screenplays.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom
ACE Outcomes: 7?
Groups: Film Studies

ENGL **Survey of Medieval Literature**

[LINK \(http://bulletin.unl.edu/courses/ENGL/462\)](http://bulletin.unl.edu/courses/ENGL/462)

462/862

Prereqs:
Junior standing; two courses in ENGL above 199.

The various genres and movements of Medieval English literature and their cultural context.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom
Groups: Literary and Cultural Studies

ENGL **Ideas of Ethnicity in Medieval and Renaissance Literature**

[LINK \(http://bulletin.unl.edu/courses/ENGL/462A\)](http://bulletin.unl.edu/courses/ENGL/462A)

462A/862A

Medieval and Renaissance literary texts that involve encounters between different religions and cultures. Readings from chronicles, romances, travel writings, debates, and epics.

Credit Hours: 3
Course Delivery: Classroom
Groups: Literary and Cultural Studies

ENGL **Survey of Renaissance Literature**

[LINK \(http://bulletin.unl.edu/courses/ENGL/463\)](http://bulletin.unl.edu/courses/ENGL/463)

463/863

Extensive study of major authors and works of the sixteenth and early seventeenth centuries with particular attention to the development of poetic and prose literary forms and their cultural context.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL **British Literature, 1660–1800**

[LINK \(http://bulletin.unl.edu/courses/ENGL/464\)](http://bulletin.unl.edu/courses/ENGL/464)

464/864

Prereqs:
Junior standing; two courses in ENGL above 199.

Major writers and critical issues of the period. Emphasis on poetry and nonfiction prose.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL **Nineteenth–Century British Literature**

[LINK \(http://bulletin.unl.edu/courses/ENGL/465\)](http://bulletin.unl.edu/courses/ENGL/465)

465/865

Prereqs:
Junior standing; two courses in ENGL above 199.

Poetry and prose of the Romantic and Victorian periods. Their intellectual and cultural context.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL **Literary History**

[LINK \(http://bulletin.unl.edu/courses/ENGL/467\)](http://bulletin.unl.edu/courses/ENGL/467)

467/867

Prereqs:
Junior standing; two courses in ENGL above 199.

Theory of literary periods and movements and the causes for change among them. Periods, movements, and readings are taken from British literature from about 1475 to about 1950.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL **Rhetoric**

[LINK \(http://bulletin.unl.edu/courses/ENGL/475\)](http://bulletin.unl.edu/courses/ENGL/475)

475/875

Prereqs:
Junior standing; two courses in ENGL above 199.

ENGL 475 (http://bulletin.unl.edu/courses/ENGL/475)/875 (http://bulletin.unl.edu/courses/ENGL/875) may not be offered every year.

Rhetoric and rhetorical theory in relation to literature, composition, and language.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Writing, Rhetoric, and Culture

ENGL **Rhetorical Theory: Rhetoric of Women Writers**

[LINK \(http://bulletin.unl.edu/courses/ENGL/475A\)](http://bulletin.unl.edu/courses/ENGL/475A)

475A/875A

Crosslisted as *WMNS 475A/875A*

Prereqs:
Junior standing.

Rhetoric and rhetorical theory of women writers and speakers and its implications for literature, composition, literacy, feminist theory, and women's and gender studies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Writing, Rhetoric, and Culture

ENGL

Digital Archives and Editions[LINK \(http://bulletin.unl.edu/courses/ENGL/478\)](http://bulletin.unl.edu/courses/ENGL/478)**478/878****Prereqs:**
Junior standing.

The shift from printed to digital texts and its implications for the humanities. Practice in digitally representing texts, archival design, and analysis of representative electronic projects dedicated to a variety of authors and genres.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ENGL

Writing Theory and Practice for Consultants[LINK \(http://bulletin.unl.edu/courses/ENGL/480\)](http://bulletin.unl.edu/courses/ENGL/480)**480/880****Prereqs:**
Junior standing; two courses in ENGL above 199.

Successful completion of *ENGL 480* (<http://bulletin.unl.edu/courses/ENGL/480/880>) is required to intern or work as a consultant in UNL's Writing Assistance Center.

Introduction to issues and scholarship in teaching writing and working as a writing consultant.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Writing, Rhetoric, and Culture

ENGL

Literacy Issues and Community[LINK \(http://bulletin.unl.edu/courses/ENGL/482\)](http://bulletin.unl.edu/courses/ENGL/482)**482/882****Prereqs:**
Junior standing.

ENGL 482 (<http://bulletin.unl.edu/courses/ENGL/482/882>) may include a literacy and/or writing internship in a community or workplace setting.

Literacy theory and its application in school, community, and workplace environments.

Credit Hours:	3-6
Max credits per degree:	6
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Writing, Rhetoric, and Culture

ENGL

Medieval Literature and Theology[LINK \(http://bulletin.unl.edu/courses/ENGL/489\)](http://bulletin.unl.edu/courses/ENGL/489)**489/889**Crosslisted as *RELG 489*

The relationship between significant medieval theologies and primary medieval poets and prose masters.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL

Independent Directed Reading[LINK \(http://bulletin.unl.edu/courses/ENGL/497\)](http://bulletin.unl.edu/courses/ENGL/497)**497/897****Prereqs:**
Permission.

Credit Hours:	1-6
Course Delivery:	Classroom
Groups:	Independent Study, Special Topics, Internships

ENGL

Special Topics[LINK \(http://bulletin.unl.edu/courses/ENGL/498\)](http://bulletin.unl.edu/courses/ENGL/498)**498/898****Prereqs:**
Senior standing.

Credit Hours:	1-6
Max credits per semester:	6
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Independent Study, Special Topics, Internships

ENGL

Genre[LINK \(http://bulletin.unl.edu/courses/ENGL/806\)](http://bulletin.unl.edu/courses/ENGL/806)**806**

History and theory of the concept of genre as exemplified in literary works in various forms. Examples: comedy, tragedy, and satire.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL

Plains Literature[LINK \(http://bulletin.unl.edu/courses/ENGL/811B\)](http://bulletin.unl.edu/courses/ENGL/811B)**811B**

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL

Middle English[LINK \(http://bulletin.unl.edu/courses/ENGL/828B\)](http://bulletin.unl.edu/courses/ENGL/828B)**828B**

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL

Music and Text in the English Renaissance[LINK \(http://bulletin.unl.edu/courses/ENGL/830J\)](http://bulletin.unl.edu/courses/ENGL/830J)**830J**Crosslisted as *MUSC 830J***Prereqs:**
[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366)

Interconnections between musical and literary composition at a time when practitioners in both areas were profoundly influenced by developments in each others' fields.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL

Fiction Writing[LINK \(http://bulletin.unl.edu/courses/ENGL/852\)](http://bulletin.unl.edu/courses/ENGL/852)**852****Prereqs:**
[ENGL 252 \(http://bulletin.unl.edu/courses/ENGL/252\)](http://bulletin.unl.edu/courses/ENGL/252); and permission

ENGL *852 is for advanced students with previous experience in fiction writing.

Longer projects in fiction writing.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGL
852A

Writing of Literary Non-Fiction

[LINK \(http://bulletin.unl.edu/courses/ENGL/852A\)](http://bulletin.unl.edu/courses/ENGL/852A)

Prereqs:
[ENGL 252 \(http://bulletin.unl.edu/courses/ENGL/252\)](http://bulletin.unl.edu/courses/ENGL/252) or [253 \(http://bulletin.unl.edu/courses/ENGL/253\)](http://bulletin.unl.edu/courses/ENGL/253)

Advanced (workshop) course for creative writers; emphasis on memoirs, personal essays, other forms of literary non-fiction.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGL
853

Writing of Poetry

[LINK \(http://bulletin.unl.edu/courses/ENGL/853\)](http://bulletin.unl.edu/courses/ENGL/853)

Prereqs:
[ENGL 253 \(http://bulletin.unl.edu/courses/ENGL/253\)](http://bulletin.unl.edu/courses/ENGL/253) and permission

For advanced students with previous experience in poetry writing.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGL
854

Advanced Writing Projects

[LINK \(http://bulletin.unl.edu/courses/ENGL/854\)](http://bulletin.unl.edu/courses/ENGL/854)

Prereqs:
3 hrs English composition above the [ENGL 200 \(http://bulletin.unl.edu/courses/ENGL/200\)](http://bulletin.unl.edu/courses/ENGL/200) level

Advanced writing workshop in which experienced writers develop extended projects in writing, analyze their own and others' writing processes, and read widely in genres related to their projects.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ENGL
857

Composition Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/ENGL/857\)](http://bulletin.unl.edu/courses/ENGL/857)

Recent research on language development and the process of writing. Applications of theory to composition instruction, especially in K-12 grades.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL
881

GESL/Academic Research

[LINK \(http://bulletin.unl.edu/courses/ENGL/881\)](http://bulletin.unl.edu/courses/ENGL/881)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL
884

GESL/Advanced Academic Writing

[LINK \(http://bulletin.unl.edu/courses/ENGL/884\)](http://bulletin.unl.edu/courses/ENGL/884)

Prereqs:
Permission

Individualized tutorial instruction focused on the student's particular grammar and writing problems.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

ENGL
886

GESL and/or Academic Language Skills

[LINK \(http://bulletin.unl.edu/courses/ENGL/886\)](http://bulletin.unl.edu/courses/ENGL/886)

Prereqs:
Permission

For international graduate students designed to develop academic language skills.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL
887

GESL and/or Academic Research Skills

[LINK \(http://bulletin.unl.edu/courses/ENGL/887\)](http://bulletin.unl.edu/courses/ENGL/887)

Prereqs:
Permission

Advanced tutorial in academic writing for international graduate students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL
888

Spoken English for International Students

[LINK \(http://bulletin.unl.edu/courses/ENGL/888\)](http://bulletin.unl.edu/courses/ENGL/888)

Prereqs:
Permission

Speech improvement course for international graduate students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL
895

Internship in Teaching English

[LINK \(http://bulletin.unl.edu/courses/ENGL/895\)](http://bulletin.unl.edu/courses/ENGL/895)

Prereqs:
Permission

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

ENGL
895A

Nebraska Writing Project Internship

Crosslisted as *TEAC 895A*

[LINK \(http://bulletin.unl.edu/courses/ENGL/895A\)](http://bulletin.unl.edu/courses/ENGL/895A)

Prereqs:
Permission

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/ENGL/899\)](http://bulletin.unl.edu/courses/ENGL/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

ENGL
901

Seminar in Drama

[LINK \(http://bulletin.unl.edu/courses/ENGL/901\)](http://bulletin.unl.edu/courses/ENGL/901)

Credit Hours:	1-24
Campus:	

ENGL
902**Seminar in Poetry**[LINK \(http://bulletin.unl.edu/courses/ENGL/902\)](http://bulletin.unl.edu/courses/ENGL/902)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL
905**Seminar in Prose Fiction**[LINK \(http://bulletin.unl.edu/courses/ENGL/905\)](http://bulletin.unl.edu/courses/ENGL/905)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL
911**Seminar in Plains Literature**[LINK \(http://bulletin.unl.edu/courses/ENGL/911\)](http://bulletin.unl.edu/courses/ENGL/911)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL
913**Studies in Film**[LINK \(http://bulletin.unl.edu/courses/ENGL/913\)](http://bulletin.unl.edu/courses/ENGL/913)

Credit Hours: 3-4

Campus:

Course Delivery: Classroom

ENGL
914**Seminar in Women Writers**[LINK \(http://bulletin.unl.edu/courses/ENGL/914\)](http://bulletin.unl.edu/courses/ENGL/914)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL
915**Popular Literature**[LINK \(http://bulletin.unl.edu/courses/ENGL/915\)](http://bulletin.unl.edu/courses/ENGL/915)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL
918**Interdisciplinary Seminar in Nineteenth-Century Studies**Crosslisted as *HIST 918, MODL 918*[LINK \(http://bulletin.unl.edu/courses/ENGL/918\)](http://bulletin.unl.edu/courses/ENGL/918)Invention of the nineteenth century, gender, colonialism, class, realism
science and technology.

Credit Hours: 3

Max credits per degree: 6

Campus:
Course Delivery: Classroom

ENGL
919

Interdisciplinary Approaches to the Nineteenth Century

[LINK \(http://bulletin.unl.edu/courses/ENGL/919\)](http://bulletin.unl.edu/courses/ENGL/919)

Crosslisted as *HIST 919, MODL 919*

Introduction to the nineteenth century in North America (focusing on the US), Great Britain, and Europe (focusing on France, Germany, Russia, and Spain), organized through themes such as constructions of gender and sexuality, democracy in the nation-state, and challenges to religion.

Credit Hours: 3
Campus:
Course Delivery: Classroom

ENGL
920

Seminar in Linguistics

[LINK \(http://bulletin.unl.edu/courses/ENGL/920\)](http://bulletin.unl.edu/courses/ENGL/920)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

ENGL
927

Stylistics

[LINK \(http://bulletin.unl.edu/courses/ENGL/927\)](http://bulletin.unl.edu/courses/ENGL/927)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

ENGL
930

Seminar in British Authors to 1800

[LINK \(http://bulletin.unl.edu/courses/ENGL/930\)](http://bulletin.unl.edu/courses/ENGL/930)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

ENGL
931

Seminar in British Authors since 1800

[LINK \(http://bulletin.unl.edu/courses/ENGL/931\)](http://bulletin.unl.edu/courses/ENGL/931)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

ENGL
932

Seminar in American Authors to 1900

[LINK \(http://bulletin.unl.edu/courses/ENGL/932\)](http://bulletin.unl.edu/courses/ENGL/932)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

ENGL
933

Seminar in American Authors since 1900

[LINK \(http://bulletin.unl.edu/courses/ENGL/933\)](http://bulletin.unl.edu/courses/ENGL/933)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL

940

Seminar in African-American Literature

[LINK \(http://bulletin.unl.edu/courses/ENGL/940\)](http://bulletin.unl.edu/courses/ENGL/940)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL

953

Seminar in Creative Writing

[LINK \(http://bulletin.unl.edu/courses/ENGL/953\)](http://bulletin.unl.edu/courses/ENGL/953)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL

957

Composition Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/ENGL/957\)](http://bulletin.unl.edu/courses/ENGL/957)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL

961

Seminar in American Literature

[LINK \(http://bulletin.unl.edu/courses/ENGL/961\)](http://bulletin.unl.edu/courses/ENGL/961)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL

962

Seminar in Medieval Literature

[LINK \(http://bulletin.unl.edu/courses/ENGL/962\)](http://bulletin.unl.edu/courses/ENGL/962)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL

963

Seminar in Renaissance Literature

[LINK \(http://bulletin.unl.edu/courses/ENGL/963\)](http://bulletin.unl.edu/courses/ENGL/963)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

ENGL

964

Seminar in Restoration and Eighteenth-Century Literature

[LINK \(http://bulletin.unl.edu/courses/ENGL/964\)](http://bulletin.unl.edu/courses/ENGL/964)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ENGL
965

Seminar in Nineteenth-Century Literature

[LINK \(http://bulletin.unl.edu/courses/ENGL/965\)](http://bulletin.unl.edu/courses/ENGL/965)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ENGL
967

Seminar in Modern Literature

[LINK \(http://bulletin.unl.edu/courses/ENGL/967\)](http://bulletin.unl.edu/courses/ENGL/967)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ENGL
970

Literary Theory

[LINK \(http://bulletin.unl.edu/courses/ENGL/970\)](http://bulletin.unl.edu/courses/ENGL/970)

Credit Hours:	3-4
Campus:	
Course Delivery:	Classroom

ENGL
971

Seminar in Literary Theory

[LINK \(http://bulletin.unl.edu/courses/ENGL/971\)](http://bulletin.unl.edu/courses/ENGL/971)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ENGL
973

Seminar in Literacy Studies

[LINK \(http://bulletin.unl.edu/courses/ENGL/973\)](http://bulletin.unl.edu/courses/ENGL/973)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ENGL
976

Seminar in Rhetorical Theory

[LINK \(http://bulletin.unl.edu/courses/ENGL/976\)](http://bulletin.unl.edu/courses/ENGL/976)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ENGL
986

Approaches to English Studies

[LINK \(http://bulletin.unl.edu/courses/ENGL/986\)](http://bulletin.unl.edu/courses/ENGL/986)

Emerging models of English studies that cross traditional boundaries. Traces disciplinary concerns across three registers: scholarship, curriculum, and pedagogy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL
987 **Seminar in Humanities and Public Policy**

[LINK \(http://bulletin.unl.edu/courses/ENGL/987\)](http://bulletin.unl.edu/courses/ENGL/987)

Strategies for using the humanities to change or develop policy, the public policy roles of humanities and education scholars, and strategies for obtaining funding, permanence, and effectiveness.

Credit Hours:	3-4
Campus:	
Course Delivery:	Classroom

ENGL
990 **Introduction to Research and Scholarship in English**

[LINK \(http://bulletin.unl.edu/courses/ENGL/990\)](http://bulletin.unl.edu/courses/ENGL/990)

Introduction to a variety of approaches to research and scholarship current in the discipline.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

ENGL
991 **Nebraska Literature Project**

[LINK \(http://bulletin.unl.edu/courses/ENGL/991\)](http://bulletin.unl.edu/courses/ENGL/991)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ENGL
992 **Nebraska Humanities Project**

Crosslisted as *TEAC 992*

[LINK \(http://bulletin.unl.edu/courses/ENGL/992\)](http://bulletin.unl.edu/courses/ENGL/992)

Credit Hours:	1-24
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL
992B **Place Conscious Teaching**

Crosslisted as *TEAC 992B*

[LINK \(http://bulletin.unl.edu/courses/ENGL/992B\)](http://bulletin.unl.edu/courses/ENGL/992B)

Theory and practice of teaching writing, literature, and rhetoric in connection with local place, region, and community.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL
994 **Application of Learning and Teaching English**

[LINK \(http://bulletin.unl.edu/courses/ENGL/994\)](http://bulletin.unl.edu/courses/ENGL/994)

Credit Hours:	3-4
Campus:	

ENGL
995 Teaching of Literature

[LINK \(http://bulletin.unl.edu/courses/ENGL/995\)](http://bulletin.unl.edu/courses/ENGL/995)

Credit Hours:	1-24
Max credits per degree:	24
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL
996 Bibliography and Methods

[LINK \(http://bulletin.unl.edu/courses/ENGL/996\)](http://bulletin.unl.edu/courses/ENGL/996)

Credit Hours:	3-4
Campus:	
Course Delivery:	Classroom

ENGL
997 Independent Directed Reading

[LINK \(http://bulletin.unl.edu/courses/ENGL/997\)](http://bulletin.unl.edu/courses/ENGL/997)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

ENGL
999 Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/ENGL/999\)](http://bulletin.unl.edu/courses/ENGL/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

HIST
895 Internship in Digital Humanities

Crosslisted as ENGL 895E, MODL 895

Active participation in an ongoing digital humanities project in the Center for Digital Research in the Humanities, including weekly meetings designed to build technical and project management skills.

[LINK \(http://bulletin.unl.edu/courses/HIST/895\)](http://bulletin.unl.edu/courses/HIST/895)

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

TEAC
857B Nebraska Writing Project

Crosslisted as ENGL 857B

Topics in writing instruction, explored via the National Writing Project Institute model, for K-12 and college teachers of writing in all curricular areas.

[LINK \(http://bulletin.unl.edu/courses/TEAC/857B\)](http://bulletin.unl.edu/courses/TEAC/857B)

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

Summer institute for K–12 and college teachers of writing in all curricular areas, taught on the National Writing Project model.

Credit Hours:	6
Course Format:	Lecture 6
Campus:	
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/English). (<http://www.unl.edu/gradstudies/prospective/programs/English>)

Department Chair: Susan Belasco, Ph.D.

Graduate Studies Committee: Associate Professor Abel (Chair), Professors Agee, Brooke, Assistant Professors Schleck, Vegso; Graduate Student Representative Wendy Oleson

The Department of English offers MA and PhD work in ten major fields of study: Medieval, Renaissance, Restoration and Eighteenth–Century, Nineteenth–Century British, American Literature to 1900, Modern British and American, Composition and Rhetoric, Creative Writing, Women’s Literature, Plains Literature, Ethnic Literature, and Critical Theory.

Master of Arts Degree.

The prerequisite for admission to work leading to the degree of master of arts with specialization in English is normally an undergraduate major in English. The application for admission must include transcripts, three letters of recommendation, vita, evidence of teaching potential, a statement of educational goals, and a sample of the student’s scholarly writing. The GRE general test score may be submitted but is not required. If the student is applying to the Creative Writing Program, a creative writing sample must be submitted, in addition to the critical writing sample. Foreign students whose native language is not English must submit a score of 100 or higher on the Internet–based TOEFL or 600 or higher on the paper–based TOEFL. Masters students must satisfy course distribution requirements and take a comprehensive examination or write a thesis. Further information about the program is available upon request from the chairperson of the Graduate Committee.

Doctor of Philosophy Degree.

Students can apply for the PhD program directly from the BA, or with an MA or MFA. The application for admission must include transcripts (graduate and undergraduate), three letters of recommendation, a sample of the student’s scholarly writing, a personal statement of the applicant’s interests and goals in obtaining a PhD, a vita, and evidence of teaching experience or potential. The GRE general test score may be submitted but is not required. Creative writing applicants should submit a portfolio of their work. Foreign students whose native language is not English must submit a score of 100 or higher on the Internet–based TOEFL or 600 or higher on the paper–based TOEFL. Doctoral students shape their own program of study with the guidance of a Supervisory Committee and take a three–part comprehensive examination. Fluency in one foreign language, reading knowledge of two foreign languages, or reading knowledge of a foreign language plus a collateral field, are also required. Students will ordinarily be expected to complete at least 60 hours of course work beyond the bachelors degree and 24–30 hours in dissertation credit. Further information about the program is available upon request from the chairperson of the Graduate Committee.

Specializations available for both the MA and PhD degrees:

[Ethnic Studies](http://ethnicstudies.unl.edu/specialization.aspx) (<http://ethnicstudies.unl.edu/specialization.aspx>); Great Plains Studies; Human Rights and Humanitarian Affairs; Nineteenth–Century Studies; Women’s and Gender Studies.

Course Offerings--Important Note.

The course offerings in English are described in this bulletin for the most part in general terms only. For the precise courses offered or to be offered in the next semester, see the Schedule of Classes and Course Description Booklet. The Booklet is available in the Department of English.

Course Requirements.

Beginning MA students must take ENGL 990 (Introduction to Literary Scholarship). Teaching assistants must take ENGL 957 (Composition Theory and Practice). Students may not take more than 6 hours of independent directed reading (ENGL 897 or 997) as part of their MA or PhD program.

NOTE: For specific topics of each course for any particular semester, consult the Schedule of Classes for that semester.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/English). (<http://www.unl.edu/gradstudies/prospective/programs/English>)

Retrieved from "<http://bulletin.unl.edu/graduate/English> (<http://bulletin.unl.edu/graduate/English>)"

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Entomology

Subject Areas

- Entomology (ENTO) (#ENTO)
- Forensic Science (FORS) (#FORS)

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Courses for ENTO (ENTO)

AGRO **815A** **Self-pollinated Crop Breeding** [LINK \(http://bulletin.unl.edu/courses/AGRO/815A\)](http://bulletin.unl.edu/courses/AGRO/815A)
Crosslisted as *ENTO 815A*

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315)

This course is a prerequisite for: [AGRO 816B \(http://bulletin.unl.edu/courses/AGRO/816B\)](http://bulletin.unl.edu/courses/AGRO/816B),
[AGRO 816E \(http://bulletin.unl.edu/courses/AGRO/816E\)](http://bulletin.unl.edu/courses/AGRO/816E), [AGRO 816I \(http://bulletin.unl.edu/courses/AGRO/816I\)](http://bulletin.unl.edu/courses/AGRO/816I)

Self-pollinated plant breeding theory and methods. Pedigree, bulk, single seed descent, back-crossing methods and inbreeding theory.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

AGRO **815B** **Germplasm and Genes** [LINK \(http://bulletin.unl.edu/courses/AGRO/815B\)](http://bulletin.unl.edu/courses/AGRO/815B)
Crosslisted as *ENTO 815B*

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315)

Obtaining germplasm and genes from cultivated plants, wild relatives of cultivated plants, and the biosphere. Origination of crops, mutation genetics, biotechnology as a source of genes, chromosomal engineering and plant reproduction.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

AGRO **815D** **Cross-pollinated Crop Breeding** [LINK \(http://bulletin.unl.edu/courses/AGRO/815D\)](http://bulletin.unl.edu/courses/AGRO/815D)
Crosslisted as *ENTO 815D*

Prereqs:
[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315)

Cross-pollinated breeding theory and methods. Genes in populations, recurrent selection methods, creating populations, hybrid production practices, and population improvement theory.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

BIOS **865** **Insect Transmission of Plant Diseases** [LINK \(http://bulletin.unl.edu/courses/BIOS/865\)](http://bulletin.unl.edu/courses/BIOS/865)
Crosslisted as *ENTO 865*

Prereqs:
8 hrs biological sciences including [BIOS 864 \(http://bulletin.unl.edu/courses/BIOS/864\)](http://bulletin.unl.edu/courses/BIOS/864) preceding or parallel and 6 hrs entomology or biological sciences (zoology)

*ENTO *865 is offered even-numbered calendar years.*

Relationships between plant diseases and their vectors with emphasis on virus diseases and transmission by aphids.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS **960** **Biosystematics and Nomenclature** [LINK \(http://bulletin.unl.edu/courses/BIOS/960\)](http://bulletin.unl.edu/courses/BIOS/960)
Crosslisted as *ENTO 960*

ENTO **Biology and Classification of Insects**

[LINK \(http://bulletin.unl.edu/courses/ENTO/400\)](http://bulletin.unl.edu/courses/ENTO/400)

400/800

Prereqs:
ENTO 115 (<http://bulletin.unl.edu/courses/ENTO/115>) or graduate standing.

Biology and ecology of common families of insects. Sight recognition of 22 Orders and 105 Families, identification of other families with keys. Student project at species level.

Credit Hours: 4

Course Format: Lab 3, Lecture 3

Course Delivery: Classroom

ENTO **Insect Physiology**

[LINK \(http://bulletin.unl.edu/courses/ENTO/401\)](http://bulletin.unl.edu/courses/ENTO/401)

401/801

Prereqs:
CHEM 251 (<http://bulletin.unl.edu/courses/CHEM/251>); 12 hrs entomology or biological sciences (zoology).

Offered fall semester of odd-numbered calendar years

Functions and other phenomena associated with the major organ systems of insects; the cuticle, nervous, circulatory, digestive, metabolism, nutrition, locomotion, reproduction, respiration, and growth and development.

Credit Hours: 4

Course Format: Lecture, Lab

Course Delivery: Classroom

ENTO **Aquatic Insects**

[LINK \(http://bulletin.unl.edu/courses/ENTO/402\)](http://bulletin.unl.edu/courses/ENTO/402)

402/802

Crosslisted as *BIOS 485/885, NRES 402/802*

Prereqs:
12 hrs biological sciences.

Offered fall semester of odd-numbered calendar years. Offered summer semester of even-numbered calendar years on the Internet via the World Wide Web (WWW).

Biology and ecology of aquatic insects.

Credit Hours: 2

Course Format: Lecture 2

Course Delivery: Classroom, Web

ENTO **Identification of Aquatic Insects**

[LINK \(http://bulletin.unl.edu/courses/ENTO/402L\)](http://bulletin.unl.edu/courses/ENTO/402L)

402L/802L

Crosslisted as *BIOS 485L/885L, NRES 402L/802L*

Prereqs:
Parallel ENTO 802 (<http://bulletin.unl.edu/courses/ENTO/802>), NRES 402 (<http://bulletin.unl.edu/courses/NRES/402>), BIOS 485 (<http://bulletin.unl.edu/courses/BIOS/485>), BIOS 485 (<http://bulletin.unl.edu/courses/BIOS/485>), BIOS 485 (<http://bulletin.unl.edu/courses/BIOS/485>), BIOS 485 (<http://bulletin.unl.edu/courses/BIOS/485>).

ENTO 402L (<http://bulletin.unl.edu/courses/ENTO/402L>)/802L (<http://bulletin.unl.edu/courses/ENTO/802L>) is offered fall semester of odd-numbered calendar years. BIOS 485L (<http://bulletin.unl.edu/courses/BIOS/485L>)/885L (<http://bulletin.unl.edu/courses/BIOS/885L>) and NRES 402L (<http://bulletin.unl.edu/courses/NRES/402L>)/802L (<http://bulletin.unl.edu/courses/NRES/802L>) may be offered in the spring semester.

Credit Hours: 1

Course Format: Lab

Course Delivery: Classroom

Identification of aquatic insects to the family level.

403/803

Prereqs:
Introductory biology course.

Offered spring semester of even-numbered calendar years on the Internet via the World Wide Web. Credit toward the degree cannot be earned in both ENTO 303 (<http://bulletin.unl.edu/courses/ENTO/303>) and ENTO 403 (<http://bulletin.unl.edu/courses/ENTO/403/803>) (<http://bulletin.unl.edu/courses/ENTO/803>).

The biology, ecology and management of insect pests of horticultural crops such as vegetables, fruit trees, trees and shrubs, greenhouse crops, turf and ornamentals. Employing Integrated Pest Management (IPM) strategies to maintain pests below damaging levels while minimizing the use of traditional insecticides.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

406/806

Crosslisted as BIOS 406/806

Prereqs:
BIOS/NRES 220 (<http://bulletin.unl.edu/courses/NRES/220>) and 222 (<http://bulletin.unl.edu/courses/NRES/222>).

ENTO 406 (<http://bulletin.unl.edu/courses/ENTO/406/806>) (<http://bulletin.unl.edu/courses/ENTO/806>) is offered spring semester of odd numbered calendar years. ENTO 406 (<http://bulletin.unl.edu/courses/ENTO/406/806>) (<http://bulletin.unl.edu/courses/ENTO/806>) is also offered on the internet via the World Wide Web (WWW) in the spring semester of odd-numbered calendar years.

Biotic and abiotic factors as they influence insect development, behavior, distribution, and abundance.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

409/809

Prereqs:
12 hrs agricultural sciences and/or biological sciences including one course in entomology and one course in genetics. AGRO/HORT 481 (<http://bulletin.unl.edu/courses/HORT/481/881>) (<http://bulletin.unl.edu/courses/HORT/881/RNGE 441>) (<http://bulletin.unl.edu/courses/RNGE/441>) recommended.

Offered spring semester of odd-numbered calendar years.

Nature and mechanisms of plant resistance to insect attack and the utilization of resistance for insect control.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

410/810

Prereqs:
Introductory entomology course.

Offered fall semester of even-numbered calendar years on the Internet via the World Wide Web (WWW).

Overview of insects. Insect diversity, insect structure and function, insect ecology and behavior, and the beneficial and detrimental roles insects play. Integrating the study of insects into the classroom to enhance science education.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Course Delivery:	Classroom, Web

ENTO

411/811

Field EntomologyCrosslisted as *BIOS 482/882*[LINK \(http://bulletin.unl.edu/courses/ENTO/411\)](http://bulletin.unl.edu/courses/ENTO/411)**Prereqs:**
12 hrs biological sciences.*Offered only at Cedar Point Biological Station.*

Field course in insect taxonomy and biology emphasizing field collection, specimen preparation, classification, and insect natural history.

Credit Hours:	4
Course Delivery:	Classroom

ENTO

412/812

Entomology and Pest Management[LINK \(http://bulletin.unl.edu/courses/ENTO/412\)](http://bulletin.unl.edu/courses/ENTO/412)**Prereqs:**
Introductory course in ENTO.*Offered summer semester of odd-numbered calendar years on the Internet via the World Wide Web (WWW).*

Principles and practices of managing insect pests. Pest management theory, use of sampling, evaluation, and tactics, types of insect pests, and current issues.

Credit Hours:	3
Course Delivery:	Web

ENTO

414/814

Forensic EntomologyCrosslisted as *FORS 414/814*[LINK \(http://bulletin.unl.edu/courses/ENTO/414\)](http://bulletin.unl.edu/courses/ENTO/414)**Prereqs:**
Introductory course in entomology.*Also offered on the Internet via the World Wide Web (WWW).*

Application of entomology to legal issues. Criminal investigations, insects of forensic importance, insect succession on carrion, and case studies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ENTO

415/815

Medical Entomology[LINK \(http://bulletin.unl.edu/courses/ENTO/415\)](http://bulletin.unl.edu/courses/ENTO/415)**Prereqs:**
Introductory course in ENTO.*Also offered on the Internet via the World Wide Web (WWW).*

Direct and indirect importance of insects in human medicine. Principles of arthropod-borne disease, medically important arthropod groups, and arthropod-transmitted diseases.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom, Web

ENTO

496/896

Independent Study in Entomology[LINK \(http://bulletin.unl.edu/courses/ENTO/496\)](http://bulletin.unl.edu/courses/ENTO/496)**Prereqs:**
12 hrs biological sciences and/or agricultural sciences.*Independent study contracts for ENTO 496 (<http://bulletin.unl.edu/courses/ENTO/496>)/896 (<http://bulletin.unl.edu/courses/ENTO/896>) must be filed with the department.*

Individual or group projects in research, literature review, or extension of course work.

Credit Hours:	1-6
Max credits per degree:	12
Course Delivery:	Classroom

ENTO

817**Pest Management Systems**[LINK \(http://bulletin.unl.edu/courses/ENTO/817\)](http://bulletin.unl.edu/courses/ENTO/817)**Prereqs:****10 hrs entomology and crop production courses or permission***ENTO *817 is offered fall semester of odd-numbered calendar years.*

Different philosophies and theories of insect pest management, theory vs. reality of management, interactions of public and private sectors, development and implementation of pest management programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENTO

818**Insect Identification and Natural History**[LINK \(http://bulletin.unl.edu/courses/ENTO/818\)](http://bulletin.unl.edu/courses/ENTO/818)**Prereqs:****Introductory course in entomology**

*ENTO *818 is offered in summer session on the Internet via the World Wide Web (WWW). Credit toward the degree may not be earned in both [ENTO 800](http://bulletin.unl.edu/courses/ENTO/800) (<http://bulletin.unl.edu/courses/ENTO/800>) and ENTO *818.*

Application of entomology to legal issues. Criminal investigations, insects of forensic importance, insect succession on carrion, and case studies.

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Web

ENTO

819**Insect Behavior**[LINK \(http://bulletin.unl.edu/courses/ENTO/819\)](http://bulletin.unl.edu/courses/ENTO/819)**Prereqs:****Introductory course in entomology.**

**ENTO 819 (<http://bulletin.unl.edu/courses/ENTO/819>) is offered fall semesters of odd-numbered calendar years on the Internet via the World Wide Web (WWW).*

The process of behavioral study involves investigating the relationship between animals and their surroundings, and their response to their kin and to other organisms. Topics include characterizing how insects find and defend their resources, how they avoid predators, how they find mates, how they mate, and how some exist in highly ordered social settings.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

ENTO

820**Insecticide Toxicology**[LINK \(http://bulletin.unl.edu/courses/ENTO/820\)](http://bulletin.unl.edu/courses/ENTO/820)**Prereqs:****12 hrs biological sciences; 4 hrs organic chemistry**

*ENTO *820 is offered fall semester of odd-numbered calendar years and also on the Internet via the World Wide Web (WWW).*

Principles of toxicology, insecticide classification, mode of action, metabolism and consequences of insecticide use.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ENTO

825**Management of Agronomic Crop Insects**[LINK \(http://bulletin.unl.edu/courses/ENTO/825\)](http://bulletin.unl.edu/courses/ENTO/825)**Prereqs:****An introductory entomology course.**

*ENTO *825 is offered on the Internet via the World Wide Web (WWW) and requires access to a computer, email, and the Internet.*

Identification, biology, ecology and management of insect pests of agronomic crops such as corn, soybeans, sorghum, wheat, and alfalfa.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

Integrated Pest Management (IPM) strategies employed to maintain pests below damaging levels while minimizing the use of traditional insecticides

ENTO

826

Scientific Illustration

Crosslisted as *AGRI 826*

[LINK \(http://bulletin.unl.edu/courses/ENTO/826\)](http://bulletin.unl.edu/courses/ENTO/826)

Prereqs:
12 hrs agricultural and/or biological sciences.

*ENTO *826 is offered spring semester of even-numbered calendar years.*

Prepare scientifically accurate, high quality illustrations and graphics for the teaching, presentation, and publication of scientific information. Drawing techniques, drafting, copyright, and publication and presentation of scientific art work.

Credit Hours:	3
Course Format:	Independent Study
Course Delivery:	Web

ENTO

827

POPULATION AND ECOLOGICAL GENETICS

[LINK \(http://bulletin.unl.edu/courses/ENTO/827\)](http://bulletin.unl.edu/courses/ENTO/827)

Prereqs:
Introductory Genetics, Introductory Algebra

Introduction to key theoretical concepts in population genetics and their application. Mutation, genetic drift, structured populations, natural selection, molecular evolution.

Credit Hours:	3
Course Format:	Lecture 2, Recitation 1
Course Delivery:	Web

ENTO

888

MS Degree Project

[LINK \(http://bulletin.unl.edu/courses/ENTO/888\)](http://bulletin.unl.edu/courses/ENTO/888)

Prereqs:
Completion of 24 hrs toward the MS degree

Application of graduate course work for the non-thesis MS degree program.

Credit Hours:	4
Course Delivery:	Web

ENTO

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/ENTO/899\)](http://bulletin.unl.edu/courses/ENTO/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

ENTO

905

Seminar in Entomology

[LINK \(http://bulletin.unl.edu/courses/ENTO/905\)](http://bulletin.unl.edu/courses/ENTO/905)

Credit Hours:	1
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

ENTO

915

Presentation Methods

[LINK \(http://bulletin.unl.edu/courses/ENTO/915\)](http://bulletin.unl.edu/courses/ENTO/915)

Prereqs:
Permission.

Credit Hours:	3
Course Format:	Lab, Lecture

This course prepares entomology graduate students to give scientific and public presentations. It includes instruction in preparing posters and on-screen shows, image editing, finding entomological resources in libraries and on the internet, insect photography, and public speaking. Students develop a portfolio of their work, and they make two 12- and one 30-minute presentations to their classmates.

Course Delivery: Classroom, Web

ENTO
991 **Advanced Topics in Entomology**

[LINK \(http://bulletin.unl.edu/courses/ENTO/991\)](http://bulletin.unl.edu/courses/ENTO/991)

Prereqs:
Permission

Course offered as the need arises. The amount of credit is determined by the instructor at the time the course is offered. May be repeated for credit.

Advanced study of selected topics not presented in established courses.

Credit Hours: 1-5
Max credits per degree: 5
Campus:
Course Delivery: Classroom

ENTO
996 **Research in Entomology**

[LINK \(http://bulletin.unl.edu/courses/ENTO/996\)](http://bulletin.unl.edu/courses/ENTO/996)

Credit Hours: 1-12
Campus:
Course Delivery: Classroom

ENTO
999 **Doctoral Dissertation**

[LINK \(http://bulletin.unl.edu/courses/ENTO/999\)](http://bulletin.unl.edu/courses/ENTO/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24
Max credits per degree: 55
Campus:
Course Delivery: Classroom

NRES
920 **Xenobiotics in the Environment**

Crosslisted as *ENTO 920, HORT 920, AGRO 920*

[LINK \(http://bulletin.unl.edu/courses/NRES/920\)](http://bulletin.unl.edu/courses/NRES/920)

Prereqs:
Recommend one course each in organic chemistry, soil science, biochemistry, plant physiology, microbiology and ecology

ENTO 920 (<http://bulletin.unl.edu/courses/ENTO/920>) is offered in odd-numbered calendar years.

Fate and ecotoxicological impacts of biologically foreign compounds in soil-water-plant environments; uptake, mechanisms of toxicity and metabolism in plants and other biota. Herbicides and other pesticides.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

PLPT
813 **Biological Control of Pests**

Crosslisted as *ENTO 813*

[LINK \(http://bulletin.unl.edu/courses/PLPT/813\)](http://bulletin.unl.edu/courses/PLPT/813)

Prereqs:
12 hrs biological sciences and/or agricultural sciences

ENTO/PLPT 813 (<http://bulletin.unl.edu/courses/PLPT/813>) is offered spring semester of even-numbered calendar years. ENTO/PLPT 813 (<http://bulletin.unl.edu/courses/PLPT/813>) is also offered on the Internet via the World Wide Web (WWW) in the spring semester of even-numbered calendar years.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom, Web

Principles and practices of using natural enemies and antagonists to manage the abundance of pests and reduce economic losses.

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Courses for FORS (FORS)

ENTO 414/814	Forensic Entomology Crosslisted as <i>FORS 414/814</i>	LINK (http://bulletin.unl.edu/courses/ENTO/414)
Prereqs: Introductory course in entomology.		
<i>Also offered on the Internet via the World Wide Web (WWW).</i>		
Application of entomology to legal issues. Criminal investigations, insects of forensic importance, insect succession on carrion, and case studies.		
		Credit Hours: 3
		Course Format: Lecture 3
		Course Delivery: Classroom, Web

FORS 402/802	Principles of Forensic Photography	LINK (http://bulletin.unl.edu/courses/FORS/402)
Prereqs: FORS 120 (http://bulletin.unl.edu/courses/FORS/120) and 200 (http://bulletin.unl.edu/courses/FORS/200) .		
Concepts, techniques, analysis, and interpretation of photographic evidence.		
		Credit Hours: 1
		Course Format: Lecture 1
		Course Delivery: Web

FORS 403/803	Advanced Forensic Photography	LINK (http://bulletin.unl.edu/courses/FORS/403)
Prereqs: FORS 120 (http://bulletin.unl.edu/courses/FORS/120) , 200 (http://bulletin.unl.edu/courses/FORS/200) , and 402 (http://bulletin.unl.edu/courses/FORS/402)/802 (http://bulletin.unl.edu/courses/FORS/802) .		
Advanced concepts, techniques, analysis, and interpretation of photographic evidence.		
		Credit Hours: 1
		Course Format: Lecture 1
		Course Delivery: Web

FORS 404/804	Bloodstains as Evidence	LINK (http://bulletin.unl.edu/courses/FORS/404)
Prereqs: FORS 120 (http://bulletin.unl.edu/courses/FORS/120) and 200 (http://bulletin.unl.edu/courses/FORS/200) .		
Documentation and interpretation of geometric bloodstains, calculating probable origins, and collecting blood as a source of DNA evidence.		
		Credit Hours: 1
		Course Format: Lecture 1
		Course Delivery: Web

FORS 406/806	Crime Scene Management	LINK (http://bulletin.unl.edu/courses/FORS/406)
Prereqs: FORS 120 (http://bulletin.unl.edu/courses/FORS/120) and 200 (http://bulletin.unl.edu/courses/FORS/200) .		
Critical thinking, reasoning, investigative failure, resource management, and supervision in criminal investigation.		
		Credit Hours: 1
		Course Format: Lecture 1
		Course Delivery: Web

FORS

Forensic DNA Analysis[LINK \(http://bulletin.unl.edu/courses/FORS/407\)](http://bulletin.unl.edu/courses/FORS/407)**407/807****Prereqs:**

FORS 120 (<http://bulletin.unl.edu/courses/FORS/120>) and **200** (<http://bulletin.unl.edu/courses/FORS/200>).

Collection and analysis of DNA for use in forensic science.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

FORS

Special Topics in Forensic Science[LINK \(http://bulletin.unl.edu/courses/FORS/498\)](http://bulletin.unl.edu/courses/FORS/498)**498/898****Prereqs:**

3 hrs FORS or equivalent.

Current issues in forensic science.

Credit Hours:	1-6
Max credits per degree:	12
Course Format:	Lecture
Course Delivery:	Classroom

FORS

Forensic Science and Criminal Investigation[LINK \(http://bulletin.unl.edu/courses/FORS/820\)](http://bulletin.unl.edu/courses/FORS/820)**820**

Theory and practice in forensic science. The legal system, crime scene investigation, taphonomy, and criminalistics.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

NRES

Human Remains in Forensic Science[LINK \(http://bulletin.unl.edu/courses/NRES/445\)](http://bulletin.unl.edu/courses/NRES/445)**445/845**

Crosslisted as *FORS 445/845*

Prereqs:

FORS 120 (<http://bulletin.unl.edu/courses/FORS/120>).

Forensic anthropology within the broader context of forensic sciences and physical anthropology. Decomposition and bone modification through artificial means. Determination of individual identity, diet, chronic pathology and cause of death from human remains.

Credit Hours:	4
Course Format:	Lab 2, Lecture 2
Course Delivery:	Classroom

NRES

Pollen Analysis for Behavioral, Biological, and Forensic Science [LINK \(http://bulletin.unl.edu/courses/NRES/446\)](http://bulletin.unl.edu/courses/NRES/446)**446/846**

Crosslisted as *FORS 446/846*

Prereqs:

BIOS 109 (<http://bulletin.unl.edu/courses/BIOS/109>) and **FORS 120** (<http://bulletin.unl.edu/courses/FORS/120>).

Collection, processing, identification of common North American pollen types. Pollination ecology relating to scene reconstruction. Fundamental statistics and presentation requirements for a legal and scientific audience.

Credit Hours:	4
Course Format:	Lab 2, Lecture 2
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Entomology). (<http://www.unl.edu/gradstudies/prospective/programs/Entomology>)

Department Head: Gary Brewer, Ph.D.

Graduate Committee Chair, Marion Ellis, Ph.D.

Areas of Study.

Apiculture, Forensic Science, Insect Ecology, Insect Physiology and Toxicology, Management of Insects and other Arthropods, Plant–Arthropod Interactions, Stress Biology, Plant Resistance to Insects, Systematics, Medical and Veterinary Entomology.

Master of Science Degree.

To qualify for acceptance as a candidate for the degree of master of science, a student must hold a bachelor of science or bachelor of arts degree from an accredited college, including course work in chemistry, mathematics, biology, and introductory entomology. A limited number of deficiencies may be made up during the graduate program. Curriculum must include biology and classification of insects plus two credit hours of seminar (one must be ENTO 905). These seminars include formal presentations by the students.

Distance Master of Science Degree (Option III – non-thesis).

Students must hold a BS or BA degree from an accredited college or university. Baccalaureate course work must include chemistry, mathematics, biology and introductory entomology. A limited number of deficiencies in course work can be made up during the graduate program. An undergraduate GPA of 3.0 or better is required for Full Graduate Standing. A GPA of less than 3.0 will be considered on an individual basis for provisional admission (students accepted on provisional admission must establish acceptable academic performance in their first semester to continue in the graduate program). Students in the distance masters degree program must earn a minimum of 36 hours of credit, at least 18 of which must be earned in courses open exclusively to graduate students (900 or 800 level without 400 or lower counterparts). The program must include not fewer than 18 hours in the major. Students must take or have taken insect identification and natural history, insect ecology, and insect physiology. Additionally, students must take ENTO 888, Masters Degree Project, for 4 credit hours, in which students will develop an independent project applying their graduate training to a practical question of interest. At the end of the graduate program, students must pass the Board Certified Entomology (BCE) general exam through the Entomological Society of America or the Department of Entomology's general exam. A specialized written comprehensive exam, prepared by the distance education committee must also be passed at the end of the degree program.

Doctor of Philosophy Degree.

Prospective candidates for this degree must meet the minimum undergraduate preparation noted for the masters degree. Curriculum must include biology and classification of insects plus two credit hours of seminar (one must be ENTO 905). These seminars include formal presentations by the students.

The Supervisory Committee of the PhD student will decide which of the following requirements is to be met seven months prior to the final oral examination: 1) foreign language; or 2) research technique (approved technique); or 3) collateral field (15 semester hours); or 4) minor.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Entomology). (<http://www.unl.edu/gradstudies/prospective/programs/Entomology>)

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Entrepreneurship

Q

Courses for ENTR (ENTR)

ENTR 422A/822A	Small Business Owner Crosslisted as <i>MNGT 422A/822A</i>	LINK (http://bulletin.unl.edu/courses/ENTR/422A)
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Prereqs:
Junior standing.

Credit toward the degree cannot be earned in both ENTR/MNGT422/822 and ENTR/MNGT422A/822A.

The obligations and operating practices required by ownership of one's own business, whether new or acquired. Interactions with owners of small businesses (e.g., on-site visits and discussions). Cases and projects relevant to small businesses.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

ENTR 821	Initiating and Managing Entrepreneurial Growth Crosslisted as <i>MNGT 821</i>	LINK (http://bulletin.unl.edu/courses/ENTR/821)
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Prereqs:
[MNGT 321](http://bulletin.unl.edu/courses/MNGT/321) (<http://bulletin.unl.edu/courses/MNGT/321>) and [360](http://bulletin.unl.edu/courses/MNGT/360) (<http://bulletin.unl.edu/courses/MNGT/360>); or permission.

Focuses on the management of new firms, including small businesses designed to be lifestyle ventures and firms destined to grow. Exposure to variety of growth opportunities including franchising, organic growth and

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

expansion of smaller businesses or units within larger firms. Teaches how to manage a new business and exploit an entrepreneurial opportunity and manage resources to sustain the firm once the business is running. Learn through a variety of hands-on methods designed to enhance their critical thinking and practical business skills. Case study analysis and exposure to thought leadership in the field are part of the core learning methods.

ENTR
822

Managing Rapid Growth and Change in Organizations

[LINK \(http://bulletin.unl.edu/courses/ENTR/822\)](http://bulletin.unl.edu/courses/ENTR/822)

Crosslisted as *MNGT 822*

Prereqs:

[MNGT 321 \(http://bulletin.unl.edu/courses/MNGT/321\)](http://bulletin.unl.edu/courses/MNGT/321) or [360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360); or permission.

Addresses financial, human resource, operations and marketing issues that face entrepreneurs whose businesses are confronted with significant growth. In addition, will learn change management concepts that are targeted towards managing an organization in extremely turbulent times. Prepares students to work in fast-growth firms, whether they are interested in starting their own business or joining an already established fast-growth firm. Helpful for students interested in fast-growth industries such as life science and high technology.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ENTR
823

Business Plan Development and Decision Making

[LINK \(http://bulletin.unl.edu/courses/ENTR/823\)](http://bulletin.unl.edu/courses/ENTR/823)

Crosslisted as *MNGT 823*

Prereqs:

[MNGT 321 \(http://bulletin.unl.edu/courses/MNGT/321\)](http://bulletin.unl.edu/courses/MNGT/321) or [MNGT 360 \(http://bulletin.unl.edu/courses/MNGT/360\)](http://bulletin.unl.edu/courses/MNGT/360); or permission.

ENTR 823 (http://bulletin.unl.edu/courses/ENTR/823) may be taken by non-management majors with departmental permission.

Takes an in-depth look at the business planning process. By the end of the class, students produce their own business plans. Learn through their own business plan writing, through in-depth cases studies, by engaging in role plays and by interacting with business executives. Business plans are a critical part of any organization, thus, preparing students to develop business plans for a variety of new concepts and ideas, whether inside an established firm or as part of the start-up new venture. Students will be asked to enter their business plans into the business planning competitions in which the University participates.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HORT
488/488X/888

Business Management for Agricultural Enterprises

[LINK \(http://bulletin.unl.edu/courses/HORT/488\)](http://bulletin.unl.edu/courses/HORT/488)

Crosslisted as *ENTR 488/888, EAEP 488/888, AGRO 488/888*

HORT 488 (http://bulletin.unl.edu/courses/HORT/488/888) (http://bulletin.unl.edu/courses/HORT/888) requires the completion of a shadowing assignment and the analyses of case studies.

Research a specific agricultural enterprise. Develop and present a business plan using materials from the primary area of interest.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web
ACE Outcomes:	10 ²

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Description

Please see available courses listed in "Courses"

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Environmental Studies

Q

Description

Advisory Committee: Professor Gosselin (chair); Professors Amedeo, Borner, Carr, Dahab, Hage, Hayden, Louda, Riordan, Supalla, Williams; Associate Professors Blum, Harvey, Humes, Ledder, Skopp, Wandsnider, Yuen, Zellmer

Program Overview.

The Environmental Studies specialization provides an exciting opportunity to integrate multiple kinds of information, tools, and methods from a variety of disciplines to analyze and construct arguments about complex environmental challenges. Because of the interdisciplinary nature of environmental challenges, this specialization is designed to give students the opportunity to integrate the knowledge and understanding of the earth and ecological sciences (SD), the built and engineered environment (BE), or the human dimension (HD) disciplines into their graduate work.

Departments Participating (Masters): Agricultural Economics (HD); Agricultural Leadership , Education and Communication (HD); Agronomy and Horticulture (SD); Anthropology (HD), Architecture (BE); Chemistry (SD); Civil Engineering (BE); Community and Regional Planning (BE); Earth and Atmospheric Sciences (SD); Entomology (SD); Geography (SD, HD); Law (MLS Program) (HD); Mathematics (SD); Physics and Astronomy (SD); Plant Pathology (SD); Political Science (HD); School of Biological Sciences (SD); School of Natural Resources (SD, HD); and Sociology (SD, HD)

Departments Participating (Doctoral): Agricultural Economics (HD); Agronomy and Horticulture (SD); Chemistry (SD); Civil Engineering (BE); Entomology (SD); Earth and Atmospheric Sciences (SD); Geography (SD, HD); Mathematics (SD); Physics and Astronomy (SD); Plant Pathology (SD); Political Science (HD); School of Biological Sciences (SD); School of Natural Resources (SD, HD); and Sociology (SD)

(BE) = building and engineering discipline

(HD) = human dimension discipline

(SD) = scientific discipline

Policies and Procedure. The Director of Environmental Studies in collaboration with the Environmental Studies Coordinating Committee coordinates the specialization. One member of the student's examining or supervisory committee must be from a discipline in the option area, defined below. This member will be approved by the Director of Environmental Studies who will consult with the Environmental Studies Coordinating Committee, where appropriate. Approval of the thesis or dissertation topic must have the concurrence of the student's major department or program and the Environmental Studies Program.

Masters-level Specialization Requirements.

A masters-level specialization in environmental studies is available to any student who pursues a masters degree within any of the participating departments and programs. Successful completion of the requirements will be indicated on the student's final transcript following the name of the student's academic discipline, for example, Sociology, with a specialization in Environmental Studies.

Each student will be required to complete:

1. A masters degree in one of the participating departments or programs
2. Nine (9)-credit hours of environmentally-related courses from departments or programs outside the student's major department. The purpose of this emphasis area is to provide the student the ability to improve their abilities to work across disciplinary boundaries and to integrate the knowledge and understanding of the earth and ecological systems, the built and engineered environment, or human dimension disciplines (socioeconomic, legal, and/or political) into their graduate work.

To facilitate this, the nine-credit hours must be taken using the following approach:

If your major is in a human dimension discipline, you can choose an option area that expands your understanding of earth systems; ecological systems; or the built and engineered environment; or

If you major is a scientific discipline, you can choose an option area that expands your understanding of the built and engineered environment or the human dimension aspects of environmental issues – socioeconomic, legal, and/or political

If your major involves the built and engineered environment, you can choose an option area that expands your understanding of earth systems or ecological systems; or the human dimension aspects of environmental issues – socioeconomic, legal, and/or political

3. When Option I (thesis) is available in the student's program, a thesis that deals with an environmentally-relevant issue and integrates disciplinary-knowledge with the knowledge gained from their selected option area. The masters degree will be granted in one to the basic disciplines and students must be formally admitted to a degree objective in one of the participating departments.

Doctoral-level Specialization Requirements. A doctoral-level specialization in environmental studies is available to any student who pursues a PhD degree within any of the participating departments and programs. Successful completion of the requirements will be indicated on the student's final transcript in parentheses following the name of the student's academic discipline, for example, Biological Sciences (Environmental Studies).

Each student will be required to complete:

1. A doctoral degree in one of the participating departments or programs;
2. Fifteen (15)-credit hours of environmentally-related courses from departments or programs outside the student's major department. The purpose of this emphasis area is to provide the student the ability to improve their abilities to work across disciplinary boundaries and to integrate the knowledge and understanding of the earth and ecological systems, the built and engineered environment, or human dimension disciplines (socioeconomic, legal, and/or political) into their graduate work.

To facilitate this, the fifteen-credit hours must be taken using the following approach:

If your major is in a human dimension discipline, you can choose an option area that expands your understanding of earth systems; ecological systems; or the built and engineered environment; or

If your major is a scientific discipline, you can choose an option area that expands your understanding of the built and engineered environment or the human dimension aspects of environmental issues – socioeconomic, legal, and/or political

If your major involves the built and engineered environment, you can choose an option area that expands your understanding of earth systems or ecological systems; or the human dimension aspects of environmental issues – socioeconomic, legal, and/or political

3. A dissertation that deals with an environmentally-relevant issue that integrates disciplinary-knowledge with the knowledge gained from their selected option area. Environmentally-related courses completed by a student for an Environmental Studies Specialization at the masters level may be counted toward meeting the requirements for an Environmental Studies Specialization at the PhD level.

The PhD degree will be granted in one of the basic disciplines and students must be formally registered in one of the participating departments.

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Course Lists

Earth Systems Option

Offered in the Department of Earth and Atmospheric Sciences (GEOL)

- 816. Isotope Geochemistry
- 817. Organic Geochemistry
- 824. Biogeochemical Cycles
- 825. Geostatistics
- 834. Marine Ecology and Paleoecology
- 850. Surficial Processes & Landscape Evolution
- 872. Water in Geosciences
- 888. Groundwater Geology
- 889. Hydrogeology
- 898. Special Problems in Geology
- 953. Glacial Geology
- 986. Containment Hydrogeology
- 988. Introduction to Groundwater Modeling

Offered in the Department of Earth and Atmospheric Sciences (METR)

- 987. Seminar in Climatic Change

Offered in the School of Natural Resources (NRES)

- 808. Microclimate: The Biological Environment
- 819. Chemistry of Natural Waters
- 851. Soil Environmental Chemistry
- 853. Climate and Society
- 853. Hydrology
- 855. Soil Chemistry and Mineralogy
- 857. Soil Chemical Measurements
- 859. Limnology
- 865. Soil Geomorphology and Paleopedology
- 868. Wetlands
- 869. Bioatmospheric Instrumentation
- 870. Lake and Reservoir Restoration
- 873. Ecological Anthropology
- 877. Great Plains Field Pedology
- 878. Regional Climatology
- 879. Hydroclimatology
- 917. Environmental Isotope Hydrology
- 977. Soil Genesis and Classification

Offered in the Department of Agronomy and Horticulture (AGRO)

- 860. Soil Microbiology
- 861. Soil Physics
- 875. Water Quality Strategy
- 877. Great Plains Field Pedology
- 884. Water Resources Seminar
- 955. Solute Movement in Soils

Offered in the Department of Geography (GEOG)

- 812. Introduction to Geographic Information Systems
- 814. Quantitative Methods in Geography
- 815. Introduction to Computer Mapping
- 817. Cartography II: Electronic Atlas Design & Production
- 818. Introduction to Remote Sensing I
- 819. Applications for Remote Sensing in Agriculture and Natural Resources
- 820. Remote Sensing III-Digital Image Analysis
- 821. Field Techniques in Remote Sensing
- 822. Advanced Techniques in Geographic Information Systems
- 898. Advanced Special Problems
- 915. Seminar in Cartography
- 922. Seminar in Geographic Information Systems

Ecological Systems Option

Offered in the School of Natural Resources (NRES)

- 803. Ecological Statistics
- 806. Plant Ecophysiology: Theory and Practice
- 807. Plant–Water Relations
- 808. Microclimate: The Biological Environment
- 810. Landscape Ecology
- 823. Integrated Resources Management
- 824. Forest Ecology
- 826. Invasive Plants
- 833. Wildlife Management Techniques
- 835. Agroecology
- 846. Pollen Analysis for Behavioral, Biological, and Forensic Science
- 848. Advanced Topics in Wildlife Damage Management
- 850. Biology of Wildlife Populations
- 859. Limnology
- 862. Conservation Biology
- 863. Fisheries Science
- 864. Fisheries Biology
- 866. Advanced Limnology
- 868. Wetlands
- 965. Management of Aquatic Systems

Offered in the Department of Agronomy and Horticulture (AGRO)

- 835. Agroecology
- 840. Great Plains Ecosystems
- 842. Wildland Plants
- 844. Vegetation Analysis

Offered in the Department of Agronomy and Horticulture (HORT)

- 818. Agroforestry Systems in Sustainable Agriculture
- 824. Plant Nutrition and Nutrient Management
- 825. Turf Grass Science and Culture
- 849. Woody Plant Growth and Development
- 907. Agricultural Climatology

Offered in the School of Biological Sciences (BIOS)

- 806. Insect Ecology
- 836. Quaternary Paleoclimatology and Paleoecology
- 838. Biogeochemical Cycles
- 847. Soil Microbiology
- 850. Biology of Wildlife Population
- 854. Ecological Interactions
- 855. Great Plains Flora
- 857. Ecosystem Ecology
- 859. Limnology
- 862. Animal Behavior
- 863. Experimental Methods in Animal Behavior
- 864A. Principles of Plant Pathology I
- 864B. Principles of Plant Pathology II
- 867. Plant Pathogenic Bacteria
- 869. Phytopathogenic Fungi
- 870. Prairie Ecology
- 871. Plant Taxonomy
- 873. Freshwater Algae
- 874. Ichthyology
- 875. Herpetology
- 876. Mammalogy
- 882. Field Entomology
- 887. Field Parasitology
- 889. Natural History of Invertebrates
- 894. Ornithology
- 953. Advanced Population Ecology
- 955. Behavioral Ecology
- 956. Biochemical Adaptations
- 957. Zoogeography
- 958. Genetic Ecology
- 959. Advanced Community Ecology
- 960. Biosystematics & Nomenclature

Offered in the Department of Entomology (ENTO)

- 800. Biology & Classification of Insects
- 802. Aquatic Insects
- 806. Insect Ecology
- 809. Insect Control by Host Plant Resistance
- 817. Pest Management Systems

820. Insect Toxicology

Built and Engineered Environment Option

Offered in the Department of Architecture (ARCH)

830. Advanced Elements of Building Construction

836. Daylighting and Energy

856. Behavior & Social Factors in Environmental Design

860. Environmental Survey & Analysis

861. Studies in Environmental Design

866. Community Design Center

864. Urban Design I

Offered in the Department of Community and Regional Planning (CRPL)

800. Introduction to Planning

860. Planning & Design in the Built Environment

870. Environmental Planning & Policy

872. Environmental Survey & Analysis

877. Recreation & Park Planning

Offered in the Department of Agronomy and Horticulture (HORT)

898. Topics in Landscape Architecture

Offered in the Department of Civil Engineering (CIVE)

821. Hazardous Waste Management and Treatment

822. Pollution Prevention Principles and Practices

823. Physical/Chemical Treatment Processes

824. Solid Waste Management Engineering

826. Design of Water Treatment Facilities

827. Design of Wastewater Treatment & Disposal Facilities

828. Quantitative Methods in Environmental Engineering

829. Biological Waste Treatment

830. Fundamentals of Water Quality Modeling

852. Water Resources Development

853. Hydrology

854. Hydraulic Engineering

855. Nonpoint Source Pollution Control Engineering (BSEN 855)

856. Surface Water Hydrology

858. Groundwater Engineering

875. Water Quality Strategy (AGRO/CRPL/GEOL/MSYM/POLS 875)

915. Water Resources Engineering

921. Advanced Topics in Hazardous Waste Treatment & Remediation

926. Advanced Topics in Water Treatment

927. Advanced Topics in Wastewater Treatment

929. Industrial Waste Lab

930. Advanced & Industrial Wastewater Treatment

952. Water Resources Planning

954. Advanced Hydraulics

958. Groundwater Mechanics

959. Groundwater Modeling

Socioeconomic Option

Offered in the Department of Agricultural Economics (AECN)

865. Resource & Environmental Economics II

Offered in the Department of Economics (ECON)

872. Efficiency in Government

Offered in the Department of Geography (GEOG)

806. Spatial & Environmental Influences in Social Systems

850. Climate & Society

983. Seminar on Behavioral Processes in Person/Environment Relations

Offered in the Department of Sociology (SOCI)

807. Strategies of Social Research: Qualitative Methods

815. Social Change

841. Social Psychology

844. Social Demography

845. Sociology of Urban Areas

846. Environmental Sociology

853. Sociology of Health and Health Professions

862. Advanced Social Research Methods

863. Quantitative Methods of Social Research

868. Policy and Program Evaluation Research

875. Water Quality Strategy

880. Social Inequality: Stratification and Life Changes

881. Minority Groups

897. Fieldwork in Sociology
 898 and 998. Special Topics (approved topics are Environmental Sociology, Social Demography, Social Movements, Social Inequality, & the Sociology of Health)
 902. Seminar in Research Methods
 905. Seminar in Stratification, Class, and Inequality

Offered in the Department of Anthropology (ANTH)

835. Introduction to Heritage Management Archaeology
 851. Contemporary Issues of Indigenous Peoples in North America
 873. Ecological Anthropology
 874. Applied & Developmental Anthropology
 877. Hunters–Gatherers 883. Advanced Field Methods
 994. Seminar in Anthropology & Geography Courses

Legal Option

Offered in the Department of Agricultural Economics (AECN)

841. Environmental Law
 857. Water Law

Offered in the Department of Community and Regional Planning (CRPL)

804. Legal Aspects of Planning

Offered in the Department of Legal Studies (LAW)

- 609G. Constitutional Law I
 633G. Administrative Law
 666G. International Environmental Law
 677G. Toxic Substances and Hazardous Waste Law
 693G. Law & Economics
 698G. Public Lands & Natural Resources Law
 699G. Land Use Planning
 774G. Environmental Law and Water Resource Management Seminar
 776G. Water Law, Planning & Policy
 796G. Native American Law

Offered in the Department of Political Science (POLS)

869. International Law

Public Policy Option

Offered in the Department of Political Science (POLS)

826. Topics in American Public Policy
 836. Introduction to Public Policy Analysis
 866. Pro-seminar in International Relations I
 984. Seminar in Methods

Offered in the Department of Economics (ECON)

872. Efficiency in Government

Offered in the School of Natural Resources (NRES)

828. Leadership in Public Organizations

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Food Science and Technology

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Courses for FDST (FDST)

ASCI 419/819	Meat Investigations Crosslisted as <i>FDST 419/819</i>	LINK (http://bulletin.unl.edu/courses/ASCI/419)
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Prereqs:
[ASCI 210 \(http://bulletin.unl.edu/courses/ASCI/210\)](http://bulletin.unl.edu/courses/ASCI/210) or permission.

Conduct independent research and study meat industry problems in processing, production, storage, and preparation of meat and meat products.

Credit Hours:	1–3
Max credits per degree:	3
Course Delivery:	Classroom

FDST 401/801	Teaching Applications of Food Science	LINK (http://bulletin.unl.edu/courses/FDST/401)
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Prereqs:
[BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [CHEM 109 \(http://bulletin.unl.edu/courses/CHEM/109\)](http://bulletin.unl.edu/courses/CHEM/109).

[FDST 401 \(http://bulletin.unl.edu/courses/FDST/401/801\)](http://bulletin.unl.edu/courses/FDST/401/801)
 [\(http://bulletin.unl.edu/courses/FDST/801\)](http://bulletin.unl.edu/courses/FDST/801) will not count toward a FDST major or minor.

Overview of the science of food and how food can be used in the classroom to enhance science education.

Credit Hours: 3

Course Delivery: Classroom

FDST Food Quality Assurance

[LINK \(http://bulletin.unl.edu/courses/FDST/403\)](http://bulletin.unl.edu/courses/FDST/403)

403/803

Prereqs:
[FDST 205 \(http://bulletin.unl.edu/courses/FDST/205\)](http://bulletin.unl.edu/courses/FDST/205); [STAT 218 \(http://bulletin.unl.edu/courses/STAT/218\)](http://bulletin.unl.edu/courses/STAT/218).

Quality related issues as they pertain to manufacturing, processing, and/or testing of foods, with a major emphasis on food regulations, statistical process control and Hazard Analysis of Critical Control Points (HACCP).

Credit Hours: 3

Course Delivery: Classroom

FDST Food Microbiology

[LINK \(http://bulletin.unl.edu/courses/FDST/405\)](http://bulletin.unl.edu/courses/FDST/405)

405/405X/805 Crosslisted as *BIOS 445/845*

Prereqs:
[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312); [CHEM 251 \(http://bulletin.unl.edu/courses/CHEM/251\)](http://bulletin.unl.edu/courses/CHEM/251); [BIOC 321 \(http://bulletin.unl.edu/courses/BIOC/321\)](http://bulletin.unl.edu/courses/BIOC/321).

This course is a prerequisite for: [FDST 406 \(http://bulletin.unl.edu/courses/FDST/406\)](http://bulletin.unl.edu/courses/FDST/406), [FDST 415 \(http://bulletin.unl.edu/courses/FDST/415\)](http://bulletin.unl.edu/courses/FDST/415), [FDST 425 \(http://bulletin.unl.edu/courses/FDST/425\)](http://bulletin.unl.edu/courses/FDST/425), [FDST 455 \(http://bulletin.unl.edu/courses/FDST/455\)](http://bulletin.unl.edu/courses/FDST/455), [FDST 455L \(http://bulletin.unl.edu/courses/FDST/455L\)](http://bulletin.unl.edu/courses/FDST/455L), [FDST 460 \(http://bulletin.unl.edu/courses/FDST/460\)](http://bulletin.unl.edu/courses/FDST/460), [FDST 875 \(http://bulletin.unl.edu/courses/FDST/875\)](http://bulletin.unl.edu/courses/FDST/875), [FDST 877 \(http://bulletin.unl.edu/courses/FDST/877\)](http://bulletin.unl.edu/courses/FDST/877).

Nature, physiology, and interactions of microorganisms in foods. Introduction to food-borne diseases, the effect of food processing systems on the microflora of foods, principles of food preservation, food spoilage, and foods produced by microorganisms. Food plant sanitation and criteria for establishing microbial standards for food products.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

FDST Food Microbiology Laboratory

[LINK \(http://bulletin.unl.edu/courses/FDST/406\)](http://bulletin.unl.edu/courses/FDST/406)

406/806 Crosslisted as *BIOS 446/846*

Prereqs:
Parallel in [FDST 405 \(http://bulletin.unl.edu/courses/FDST/405\)/805 \(http://bulletin.unl.edu/courses/FDST/805\)](http://bulletin.unl.edu/courses/FDST/405/805); [BIOS 446 \(http://bulletin.unl.edu/courses/BIOS/446\)](http://bulletin.unl.edu/courses/BIOS/446); [846 \(http://bulletin.unl.edu/courses/BIOS/846\)](http://bulletin.unl.edu/courses/BIOS/846).

This course is a prerequisite for: [FDST 415 \(http://bulletin.unl.edu/courses/FDST/415\)](http://bulletin.unl.edu/courses/FDST/415)

The microorganisms in foods and the methods used to study them as discussed in [FDST 405 \(http://bulletin.unl.edu/courses/FDST/405\)/805 \(http://bulletin.unl.edu/courses/FDST/805\)](http://bulletin.unl.edu/courses/FDST/405/805).

Credit Hours: 2

Course Format: Lab 6

Course Delivery: Classroom

FDST Cereal Technology

[LINK \(http://bulletin.unl.edu/courses/FDST/412\)](http://bulletin.unl.edu/courses/FDST/412)

412/812

Prereqs:
FDST 205 (<http://bulletin.unl.edu/courses/FDST/205>).

Offered fall semester of odd-numbered calendar years.

Chemistry and technology of the cereal grains. Post-harvest processing and utilization for food and feed. Current industrial processes and practices, and the theoretical basis for these operations.

FDST **Molds and Mycotoxins in Food, Feed, and the Human Environment** [LINK \(http://bulletin.unl.edu/courses/FDST/415\)](http://bulletin.unl.edu/courses/FDST/415)

415/815

Prereqs:
FDST 405 (<http://bulletin.unl.edu/courses/FDST/405>)/**805** (<http://bulletin.unl.edu/courses/FDST/805>)/**BIOS 445** (<http://bulletin.unl.edu/courses/BIOS/445>)/**845** (<http://bulletin.unl.edu/courses/BIOS/845>) and **FDST 406** (<http://bulletin.unl.edu/courses/FDST/406>)/**806** (<http://bulletin.unl.edu/courses/FDST/806>)/**BIOS 446** (<http://bulletin.unl.edu/courses/BIOS/446>)/**846** (<http://bulletin.unl.edu/courses/BIOS/846>).

Offered fall semester of odd-numbered calendar years.

Occurrence, growth, and mycotoxin production of molds in human foods, animal feeds, and the human environment. Spoilage, mycotoxin production conditions, toxicity, and pathological effects. Culture media, methods and techniques for enumerating and identifying molds, analytical methods for mycotoxins, and effects of food and feed processing on mycotoxin stability.

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Course Delivery: Classroom

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Course Delivery: Classroom

FDST **Fruit and Vegetable Technology** [LINK \(http://bulletin.unl.edu/courses/FDST/420\)](http://bulletin.unl.edu/courses/FDST/420)

420/820

Prereqs:
FDST 205 (<http://bulletin.unl.edu/courses/FDST/205>).

Offered fall semester of even-numbered calendar years.

Harvesting and postharvest handling of fruit and vegetables, processing and safety issues, processes of ripening and/or maturation in fresh fruits and vegetables.

Credit Hours: 3

Course Format: Lecture 2, Lab 3

Course Delivery: Classroom

FDST **Food Toxicology** [LINK \(http://bulletin.unl.edu/courses/FDST/425\)](http://bulletin.unl.edu/courses/FDST/425)

425/825

Prereqs:
FDST 405 (<http://bulletin.unl.edu/courses/FDST/405>)/**805** (<http://bulletin.unl.edu/courses/FDST/805>), **BIOC 321** (<http://bulletin.unl.edu/courses/BIOC/321>), or equivalent, or permission.

Offered spring semester of odd-numbered calendar years.

Toxic substances that may be found in foods with emphasis on bacterial toxins, mycotoxins, and naturally occurring toxicants of plants, animals, and seafood. Basic toxicological methodology and the effects of food processing and handling on food-borne toxicants.

Credit Hours: 2

Course Format: Lecture 2

Course Delivery: Classroom

FDST **Sensory Evaluation** [LINK \(http://bulletin.unl.edu/courses/FDST/430\)](http://bulletin.unl.edu/courses/FDST/430)

430/830 Crosslisted as *STAT 430/830*

Prereqs:
Introductory course in statistics.

Offered fall semester of odd-numbered calendar years.

Credit Hours: 3

Course Format: Lecture 2, Lab 3

FDST **Food Chemistry**

448/848

[LINK \(http://bulletin.unl.edu/courses/FDST/448\)](http://bulletin.unl.edu/courses/FDST/448)**Prereqs:**

[FDST 205 \(http://bulletin.unl.edu/courses/FDST/205\)](http://bulletin.unl.edu/courses/FDST/205); [CHEM 251 \(http://bulletin.unl.edu/courses/CHEM/251\)](http://bulletin.unl.edu/courses/CHEM/251); [BIOC 321 \(http://bulletin.unl.edu/courses/BIOC/321\)](http://bulletin.unl.edu/courses/BIOC/321).

This course is a prerequisite for: [NUTR 441 \(http://bulletin.unl.edu/courses/NUTR/441\)](http://bulletin.unl.edu/courses/NUTR/441), [FDST 449 \(http://bulletin.unl.edu/courses/FDST/449\)](http://bulletin.unl.edu/courses/FDST/449)

Molecular components of various foods and the reactions of these components during the processing of foods.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

FDST **Food Chemistry Laboratory**

449/849

[LINK \(http://bulletin.unl.edu/courses/FDST/449\)](http://bulletin.unl.edu/courses/FDST/449)**Prereqs:**

[FDST 205 \(http://bulletin.unl.edu/courses/FDST/205\)](http://bulletin.unl.edu/courses/FDST/205); [FDST 448 \(http://bulletin.unl.edu/courses/FDST/448\)](http://bulletin.unl.edu/courses/FDST/448)/848 (<http://bulletin.unl.edu/courses/FDST/848>) or parallel; [BIOC 321 \(http://bulletin.unl.edu/courses/BIOC/321\)](http://bulletin.unl.edu/courses/BIOC/321).

Experiments involving the isolation, purification, and characterization of the molecular components of foods.

Credit Hours:	1
Course Format:	Lab 3
Course Delivery:	Classroom

FDST **Microbiology of Fermented Foods**

455/855

[LINK \(http://bulletin.unl.edu/courses/FDST/455\)](http://bulletin.unl.edu/courses/FDST/455)**Prereqs:**

[FDST 405 \(http://bulletin.unl.edu/courses/FDST/405\)](http://bulletin.unl.edu/courses/FDST/405)/805 (<http://bulletin.unl.edu/courses/FDST/805>).

This course is a prerequisite for: [FDST 455L \(http://bulletin.unl.edu/courses/FDST/455L\)](http://bulletin.unl.edu/courses/FDST/455L)

On-campus students must also register for [FDST 455L \(http://bulletin.unl.edu/courses/FDST/455L\)](http://bulletin.unl.edu/courses/FDST/455L)/855L (<http://bulletin.unl.edu/courses/FDST/855L>).

Physiology, biochemistry, and genetics of microorganisms important in food fermentation. How microorganisms are used in fermentation and the effects of processing and manufacturing conditions on production of fermented foods.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom, Web

FDST **Microbiology of Fermented Foods Laboratory**

455L/855L

[LINK \(http://bulletin.unl.edu/courses/FDST/455L\)](http://bulletin.unl.edu/courses/FDST/455L)**Prereqs:**

[FDST 405 \(http://bulletin.unl.edu/courses/FDST/405\)](http://bulletin.unl.edu/courses/FDST/405)/805 (<http://bulletin.unl.edu/courses/FDST/805>) and parallel [FDST 455 \(http://bulletin.unl.edu/courses/FDST/455\)](http://bulletin.unl.edu/courses/FDST/455)/855 (<http://bulletin.unl.edu/courses/FDST/855>).

Offered spring semester of even-numbered years.

Credit Hours:	1
Course Format:	Lab 3
Course Delivery:	Classroom

FDST **Advanced Food Analysis**

458/858

[LINK \(http://bulletin.unl.edu/courses/FDST/458\)](http://bulletin.unl.edu/courses/FDST/458)**Prereqs:**

Credit Hours:	3
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FDST 205 (<http://bulletin.unl.edu/courses/FDST/205>), **448** (<http://bulletin.unl.edu/courses/FDST/448>)/**848** (<http://bulletin.unl.edu/courses/FDST/848>), and **449** (<http://bulletin.unl.edu/courses/FDST/449>)/**849** (<http://bulletin.unl.edu/courses/FDST/849>).

Theory and application of molecular and atomic spectroscopy, immunochemistry and thermal methods to the analysis of foods. Chemical separation techniques for the isolation of food constituents.

Course Format: Lab 3, Lecture 2

Course Delivery: Classroom

FDST **Food Product Development Concepts**

460/860

LINK (<http://bulletin.unl.edu/courses/FDST/460>)

Prereqs:

FDST 405 (<http://bulletin.unl.edu/courses/FDST/405>)/**805** (<http://bulletin.unl.edu/courses/FDST/805>) and **448** (<http://bulletin.unl.edu/courses/FDST/448>)/**848** (<http://bulletin.unl.edu/courses/FDST/848>).

Capstone course.

Develop a commercially viable food product using chemical, microbiological and sensory analysis principles, and marketing and packaging sciences.

Credit Hours: 3

Course Format: Lab 4, Lecture 2

Course Delivery: Classroom

ACE Outcomes: 10[?]

FDST **Food Engineering Unit Operations**

465/865

Crosslisted as *MSYM 465/865*

LINK (<http://bulletin.unl.edu/courses/FDST/465>)

Prereqs:

FDST/MSYM 363 (<http://bulletin.unl.edu/courses/MSYM/363>).

Unit operations and their applications to food processing.

Credit Hours: 3

Course Format: Lecture 2, Lab 3

Course Delivery: Classroom

FDST **Nutraceuticals and Functional Foods**

470/870

LINK (<http://bulletin.unl.edu/courses/FDST/470>)

Prereqs:

BIOC 321 (<http://bulletin.unl.edu/courses/BIOC/321>) or **BIOC/BIOS/CHEM 431** (<http://bulletin.unl.edu/courses/CHEM/431>)/**831** (<http://bulletin.unl.edu/courses/CHEM/831>).

FDST 470 (<http://bulletin.unl.edu/courses/FDST/470>)/**870** (<http://bulletin.unl.edu/courses/FDST/870>) is offered in even calendar years.

Evaluation of natural compounds impact on human health. Inflammation, cancer, heart disease, and the impact of gut micro-flora on health.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

FDST **Dairy Products Technology**

829

LINK (<http://bulletin.unl.edu/courses/FDST/829>)

Prereqs:

FDST 205 (<http://bulletin.unl.edu/courses/FDST/205>)

Offered spring semester of odd-numbered calendar years. Physical, chemical and microbiological properties of milk. Principles of milk processing and manufacture of cultured dairy products, cheeses, ice cream and concentrated dairy products.

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Campus:

Course Delivery: Classroom

FDST **A Multidisciplinary Overview of Food Safety and Security**

871

LINK (<http://bulletin.unl.edu/courses/FDST/871>)

Prereqs:
3 hrs BIOS or CHEM

Instruction in FDST *871 is provided by numerous subject matter experts. Multidisciplinary food safety and security perspectives. Food safety policy, ag bioterrorism, border security, animal ID, food defense, and site security, risk analysis, crisis communication, epidemiology, Hazard Analysis and Critical Control Point System, and more.

Credit Hours: 2
Course Format: Lecture 2
Campus:
Course Delivery: Classroom

FDST
872

Principles of Hazard Analysis and Critical Control Point System [LINK \(http://bulletin.unl.edu/courses/FDST/872\)](http://bulletin.unl.edu/courses/FDST/872)

Prereqs:
3 hrs BIOS or CHEM

The Hazard Analysis and Critical Control Point (HACCP) System and its application in the food industry.

Credit Hours: 2
Course Format: Lecture 2
Campus:
Course Delivery: Classroom

FDST
873

Food-borne Toxicants [LINK \(http://bulletin.unl.edu/courses/FDST/873\)](http://bulletin.unl.edu/courses/FDST/873)

Prereqs:
3 hrs BIOS or CHEM

Mechanisms of action, metabolism, sources, remediation and/or detoxification, and risk assessment of major food-borne toxicants of current interest. Design of Hazard Analysis and Critical Control Point plans for use in food industries to target food-borne toxicants.

Credit Hours: 2
Course Format: Lecture 2
Campus:
Course Delivery: Classroom

FDST
874

Food Laws, Regulations, and the Regulatory Process [LINK \(http://bulletin.unl.edu/courses/FDST/874\)](http://bulletin.unl.edu/courses/FDST/874)

Prereqs:
3 hrs FDST at 200 level or above

FDST 874 (<http://bulletin.unl.edu/courses/FDST/874>) has presentations by state and federal food regulators. History of the development of the current federal state food regulations. Guidelines that govern the practice of regulating the wholesomeness of red meats, poultry, and eggs.

Credit Hours: 2
Course Format: Lecture 2
Campus:
Course Delivery: Classroom

FDST
875

Rapid Methods in Food Microbiology [LINK \(http://bulletin.unl.edu/courses/FDST/875\)](http://bulletin.unl.edu/courses/FDST/875)

Prereqs:
[FDST 405 \(http://bulletin.unl.edu/courses/FDST/405\)](http://bulletin.unl.edu/courses/FDST/405)/[805](http://bulletin.unl.edu/courses/FDST/805)
<http://bulletin.unl.edu/courses/FDST/805>/[BIOS 445](http://bulletin.unl.edu/courses/BIOS/445)
<http://bulletin.unl.edu/courses/BIOS/445>/[845](http://bulletin.unl.edu/courses/BIOS/845)
<http://bulletin.unl.edu/courses/BIOS/845>

The different types of rapid microbial detection approaches available for use in foods. Commercial reagents and detection platforms, and the “next generation” approaches currently under development in academia or industry. Challenges to detection posed by the complexity of most food matrices and the sample preparation methods for separating microorganisms from such matrices.

Credit Hours: 2
Course Format: Lecture 2
Campus:
Course Delivery: Classroom

FDST
876

Risk Assessment for Food, Agriculture, and Veterinary Medicine [LINK \(http://bulletin.unl.edu/courses/FDST/876\)](http://bulletin.unl.edu/courses/FDST/876)

Prereqs:
3 hrs STAT

Risk assessment principles as applied to biological systems. Exposure and effects characterization in human and animal health and ecological risk assessment. Risk analysis frameworks and regulatory decision-making. Introduction to quantitative methods for risk assessment using epidemiological and distributional analyses. Uncertainty analysis.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

FDST

877

Advanced Food Microbiology and Biotechnology

[LINK \(http://bulletin.unl.edu/courses/FDST/877\)](http://bulletin.unl.edu/courses/FDST/877)

Prereqs:
[FDST 405 \(http://bulletin.unl.edu/courses/FDST/405\)](http://bulletin.unl.edu/courses/FDST/405)/[805](http://bulletin.unl.edu/courses/FDST/805)
<http://bulletin.unl.edu/courses/FDST/805>/[BIOS 445](http://bulletin.unl.edu/courses/BIOS/445)
<http://bulletin.unl.edu/courses/BIOS/445>/[845](http://bulletin.unl.edu/courses/BIOS/845)
<http://bulletin.unl.edu/courses/BIOS/845>

Basic principles in biotechnology and applied food microbiology. Current topics of interest in food biotechnology. Introduction to recombinant DNA techniques and how they are applied to genetically modify microorganisms. The use of nucleic acids as tools of rapid detection of microorganisms in foods, basic enzyme immobilization and down-stream processing techniques, and regulatory aspects of food biotechnology.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

FDST

880

Advanced Food Science: Selected Topics

[LINK \(http://bulletin.unl.edu/courses/FDST/880\)](http://bulletin.unl.edu/courses/FDST/880)

Offered on a rotating basis in alternate years.
A. Food Carbohydrates (2 cr I) Lec 2. Prereq: [FDST 484](http://bulletin.unl.edu/courses/FDST/484) (<http://bulletin.unl.edu/courses/FDST/484>)/[848](http://bulletin.unl.edu/courses/FDST/848) (<http://bulletin.unl.edu/courses/FDST/848>); BIOC/BIOS/CHEM 431 (<http://bulletin.unl.edu/courses/CHEM/431>)/[831](http://bulletin.unl.edu/courses/CHEM/831) (<http://bulletin.unl.edu/courses/CHEM/831>). Offered fall semester of even-numbered calendar years.
E. Food Flavors (2 cr I) Prereq: [FDST 848](http://bulletin.unl.edu/courses/FDST/848) (<http://bulletin.unl.edu/courses/FDST/848>) or equivalent. Offered fall semester of even-numbered calendar years. Food flavors and their sources and the instrumental, chemical, and sensory methods used to identify and evaluate them.
L. Food Lipids (2 cr I) Prereq: [FDST 848](http://bulletin.unl.edu/courses/FDST/848) (<http://bulletin.unl.edu/courses/FDST/848>) or equivalent. Offered fall semester of odd-numbered calendar years. In-depth discussion of: composition, quality, and chemical and physical properties and reactions of fats and oils in food systems; processing and refining of food fats and oils; manufacture of various fat and oil products; current research related to fats and oils.
P. Food Proteins (2 cr II) Prereq: [FDST 848](http://bulletin.unl.edu/courses/FDST/848) (<http://bulletin.unl.edu/courses/FDST/848>), or [CHEM 831](http://bulletin.unl.edu/courses/CHEM/831) (<http://bulletin.unl.edu/courses/CHEM/831>) or permission. Offered spring semester of even-numbered calendar years.

Credit Hours:	2-6
Max credits per degree:	6
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

FDST

896

Independent Study in Food Science and Technology

[LINK \(http://bulletin.unl.edu/courses/FDST/896\)](http://bulletin.unl.edu/courses/FDST/896)

Prereqs:
12 hrs FDST or closely related areas or permission

Individual or group projects in research, literature review, or extension of course work under supervision and evaluation of a departmental faculty member.

Credit Hours:	1-5
Campus:	
Course Delivery:	Classroom

FDST

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/FDST/899\)](http://bulletin.unl.edu/courses/FDST/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	1-10
Campus:	
Course Delivery:	Classroom

FDST

908

Topics in Advanced Food Microbiology

[LINK \(http://bulletin.unl.edu/courses/FDST/908\)](http://bulletin.unl.edu/courses/FDST/908)

Offered on a rotating basis in alternate years. Current topics in food microbiology.

A. Food Biotechnology (2 cr I) Prereq: [FDST 805](http://bulletin.unl.edu/courses/FDST/805) (<http://bulletin.unl.edu/courses/FDST/805>) ([BIOS 845](http://bulletin.unl.edu/courses/BIOS/845)) (<http://bulletin.unl.edu/courses/BIOS/845>), [BIOC 832](http://bulletin.unl.edu/courses/BIOC/832) (<http://bulletin.unl.edu/courses/BIOC/832>), or permission. Offered fall semester of even-numbered calendar years.

Microbial genetics and recombinant DNA technology as applied to food science. Includes modification and improvement of microorganisms important in food fermentations; effects of bacteriophages in food fermentations; enzyme engineering; principles of plant and animal tissue culture; bioprocess engineering and down stream processing; DNA probe and monoclonal antibody technology; and regulatory and ethical aspects of biotechnology.

B. Food Borne Pathogens (2 cr II) Prereq: [FDST 805](http://bulletin.unl.edu/courses/FDST/805) (<http://bulletin.unl.edu/courses/FDST/805>) ([BIOS 845](http://bulletin.unl.edu/courses/BIOS/845)) (<http://bulletin.unl.edu/courses/BIOS/845>), [BIOS 820](http://bulletin.unl.edu/courses/BIOC/820) (<http://bulletin.unl.edu/courses/BIOS/820>), or permission. [BIOC 831](http://bulletin.unl.edu/courses/BIOC/831) (<http://bulletin.unl.edu/courses/BIOC/831>) and [832](http://bulletin.unl.edu/courses/BIOC/832) (<http://bulletin.unl.edu/courses/BIOC/832>) recommended. Offered spring semester of odd-numbered calendar years.

Survey of current research topics in the molecular biology of agents of food borne disease. Includes structure-function analyses of toxin molecules and other virulence determinants; genetic mechanisms of phenotypic variation, coordinate regulation of virulence gene expression; mobile genetic elements that contribute to pathogenesis; invasion of host tissues; and stress-response systems and survival.

E. Readings in Food Microbiology (2 cr II) Prereq: [FDST 805](http://bulletin.unl.edu/courses/FDST/805) (<http://bulletin.unl.edu/courses/FDST/805>) ([BIOS 845](http://bulletin.unl.edu/courses/BIOS/845)) (<http://bulletin.unl.edu/courses/BIOS/845>) or permission. Offered spring semester of even-numbered calendar years.

Primarily a literature course that focuses on current topics in food microbiology. Articles from food microbiology, as well as other applied and basic microbiology journals reviewed and discussed. Recent advances in methodology and microbiological techniques emphasized.

J. Gastrointestinal Microbiology (2 cr I) Lec 2. Prereq: [BIOS 312](http://bulletin.unl.edu/courses/BIOS/312) (<http://bulletin.unl.edu/courses/BIOS/312>). Offered fall semester of even-numbered calendar years.

Introduction to the complex microbial populations that inhabit the gastrointestinal tracts of human and non-ruminant animals, and how they impact their hosts. Aspects of gut microbiota having medical or agricultural applications.

K. Food Mycology (2 cr I) Lec 1, lab 1. Prereq: [FDST 405](http://bulletin.unl.edu/courses/FDST/405) (<http://bulletin.unl.edu/courses/FDST/405>)/[BIOS 445](http://bulletin.unl.edu/courses/BIOS/445) (<http://bulletin.unl.edu/courses/FDST/805>)/[BIOS 445](http://bulletin.unl.edu/courses/BIOS/445) (<http://bulletin.unl.edu/courses/BIOS/445>)/[BIOS 845](http://bulletin.unl.edu/courses/BIOS/845) (<http://bulletin.unl.edu/courses/BIOS/845>); [FDST 406](http://bulletin.unl.edu/courses/FDST/406) (<http://bulletin.unl.edu/courses/FDST/406>)/[BIOS 446](http://bulletin.unl.edu/courses/BIOS/446) (<http://bulletin.unl.edu/courses/FDST/806>)/[BIOS 446](http://bulletin.unl.edu/courses/BIOS/446) (<http://bulletin.unl.edu/courses/BIOS/446>)/[BIOS 846](http://bulletin.unl.edu/courses/BIOS/846) (<http://bulletin.unl.edu/courses/BIOS/846>). Offered fall semester of odd-numbered calendar years.

Food borne filamentous micro-fungi or molds. Culture media and methods. Techniques for enumerating and identifying molds belonging to the genera *Aspergillus*, *Penicillium*, *Fusarium*, *Alternaria*, *Cladosporium*, *Rhizopus*, *Mucor* and others. Food spoilage by molds, mycotoxin production and pathological effects.

Credit Hours:	2-8
Max credits per degree:	8
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

FDST

951**Advanced Food Science Seminar**[LINK \(http://bulletin.unl.edu/courses/FDST/951\)](http://bulletin.unl.edu/courses/FDST/951)**Prereqs:
Permission**

Advanced study and discussion of the scientific literature and research pertaining to food science.

Credit Hours:	1
Max credits per degree:	2
Campus:	
Course Delivery:	Classroom

FDST

996**Research in Food Science and Technology**[LINK \(http://bulletin.unl.edu/courses/FDST/996\)](http://bulletin.unl.edu/courses/FDST/996)**Prereqs:
6 hrs microbiology, 12 hrs chemistry, or permission**

Studies and investigational work relating to chemistry, microbiology, and processing of food products.

Credit Hours:	1-8
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

FDST

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/FDST/999\)](http://bulletin.unl.edu/courses/FDST/999)**Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair**

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

NUTR

441/841**Functional Properties of Food**Crosslisted as *FDST 441/841*[LINK \(http://bulletin.unl.edu/courses/NUTR/441\)](http://bulletin.unl.edu/courses/NUTR/441)**Prereqs:
NUTR 224 (<http://bulletin.unl.edu/courses/NUTR/224>), 245 (<http://bulletin.unl.edu/courses/NUTR/245>), and BIOC 321 (<http://bulletin.unl.edu/courses/BIOC/321>); or FDST 448 (<http://bulletin.unl.edu/courses/FDST/448>).**

Relationship of structure and functionality of ingredients in food systems.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

NUTR

445/845**Experimental Foods**Crosslisted as *FDST 445/845*[LINK \(http://bulletin.unl.edu/courses/NUTR/445\)](http://bulletin.unl.edu/courses/NUTR/445)**Prereqs:
NUTR 244 (<http://bulletin.unl.edu/courses/NUTR/244>) and 245 (<http://bulletin.unl.edu/courses/NUTR/245>); BIOC 321 (<http://bulletin.unl.edu/courses/BIOC/321>).**

Introduction to food research. Application of research techniques to selected problems.

Credit Hours:	3
Course Format:	Lecture 1, Lab 6
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/FoodScienceAndTechnology). (<http://www.unl.edu/gradstudies/prospective/programs/FoodScienceAndTechnology>)

Department Head: Rolando A. Flores, Ph.D.

Graduate Committee Chair: Robert W. Hutkins, Ph.D.

The Department of Food Science and Technology offers graduate work leading to the master of science and doctor of philosophy degrees with a major in food science.

The Department of Food Science and Technology is located in the modern, well equipped Food Industry Complex on East Campus. The faculty are world-recognized for their research on food microbiology, food chemistry, food engineering, microbial genomics, and gut ecology. The research environment is challenging, interactive, and exciting. Graduate students have access to a wide variety of state-of-the-art instruments for conducting cutting edge research on molecular biology and genomics of foodborne and intestinal bacteria, detection and analysis of allergens and toxins, nutraceuticals and their properties, metabolomics and proteomics, predictive microbiology and fuzzy logic modeling, and structure/function of novel food ingredients.

Applicants to the graduate program in Food Science and Technology must have a degree in food science, microbiology, biochemistry, engineering, nutrition, biology, chemistry, or other related field. Undergraduate work should include organic chemistry, calculus, and physics. Deficiencies in these requirements can be made up during the first year of graduate study. In addition to the general requirements of the Graduate College, the verbal and quantitative parts of the Graduate Record Examination are also required. The minimum GRE score is 302 (verbal 143; quantitative 159; analytical writing 3.5). An overall GPA of 3.2 is required. For students whose native language is not English, a TOEFL score of at least 577 paper (90 iBT; 233 computer-based; 6.5 IELTS) is required. Applicants should also provide three letters of recommendation, a 1-2 page Statement of Academic and Professional Goals, and a current resume.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/FoodScienceAndTechnology). (<http://www.unl.edu/gradstudies/prospective/programs/FoodScienceAndTechnology>)

Retrieved from "http://bulletin.unl.edu/graduate/Food_Science_and_Technology (http://bulletin.unl.edu/graduate/Food_Science_and_Technology)"
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Geography

Courses for GEOG (GEOG)

AGRO 977	Soil Genesis and Classification Crosslisted as <i>GEOG 967, NRES 977</i>	LINK (http://bulletin.unl.edu/courses/AGRO/977)
Prereqs: AGRO 153 (http://bulletin.unl.edu/courses/AGRO/153), AGRO 877 (http://bulletin.unl.edu/courses/AGRO/877)/ GEOG 867 (http://bulletin.unl.edu/courses/GEOG/867), and permission	Procedures used to classify soils, concepts behind the systems in use, and the genesis of the soils in the major categories of each system.	Credit Hours: 3 Course Format: Lecture 2, Recitation 1 Campus: Course Delivery: Classroom

ANTH 478/878	Pro-seminar in Latin American Studies Crosslisted as <i>HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878</i>	LINK (http://bulletin.unl.edu/courses/ANTH/478)
Prereqs: Junior standing and permission.	Topical seminar required for all Latin American Studies majors. An interdisciplinary analysis of topical issues in Latin American Studies.	Credit Hours: 3 Max credits per degree: 6 Course Delivery: Classroom Groups: Integrative Courses, Research and Reading

ANTH 994	Seminar in Anthropology and Geography Crosslisted as <i>GEOG 994</i>	LINK (http://bulletin.unl.edu/courses/ANTH/994)
		Credit Hours: 1-3 Max credits per degree: 6 Campus: Course Delivery: Classroom

GEOG
412/812

Introduction to Geographic Information Systems

[LINK \(http://bulletin.unl.edu/courses/GEOG/412\)](http://bulletin.unl.edu/courses/GEOG/412)

Crosslisted as *NRES 412/812*

This course is a prerequisite for: [GEOG 422 \(http://bulletin.unl.edu/courses/GEOG/422\)](http://bulletin.unl.edu/courses/GEOG/422)

Lab exercises provide experience with GIS

Introduction to conceptual foundations and applications of computer-based geographic information systems (GIS). GIS database development, spatial data analysis, spatial modeling, GIS implementation and administration.

Credit Hours:	4
Course Format:	Lecture 3, Lab 2
Course Delivery:	Classroom
Groups:	Techniques

GEOG
414/814

Quantitative Methods in Geography

[LINK \(http://bulletin.unl.edu/courses/GEOG/414\)](http://bulletin.unl.edu/courses/GEOG/414)

Prereqs:
[STAT 218 \(http://bulletin.unl.edu/courses/STAT/218\)](http://bulletin.unl.edu/courses/STAT/218) or [380 \(http://bulletin.unl.edu/courses/STAT/380\)](http://bulletin.unl.edu/courses/STAT/380) and 6 hrs of geography.

Introduction to quantitative techniques utilized in geographic research. Fundamental statistical and mathematical techniques used in analyzing spatial relationships examined.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Techniques

GEOG
415/815

Introduction to Computer Mapping

[LINK \(http://bulletin.unl.edu/courses/GEOG/415\)](http://bulletin.unl.edu/courses/GEOG/415)

Prereqs:
[GEOG 317 \(http://bulletin.unl.edu/courses/GEOG/317\)](http://bulletin.unl.edu/courses/GEOG/317).

Introduction to the tools, techniques, and analytical uses of computer mapping. Programming necessary for producing own computer mapping programs.

Credit Hours:	3
Course Format:	Lecture 2, Lab 2
Course Delivery:	Classroom
Groups:	Techniques

GEOG
417/817

Cartography II: Electronic Atlas Design and Production

[LINK \(http://bulletin.unl.edu/courses/GEOG/417\)](http://bulletin.unl.edu/courses/GEOG/417)

Prereqs:
[GEOG 317 \(http://bulletin.unl.edu/courses/GEOG/317\)](http://bulletin.unl.edu/courses/GEOG/317) or permission.

Computer-map design and production for the purpose of assembling an environmental electronic atlas, using advanced computer hardware and software. Extensive discussions and demonstrations on content, design, and methods used in computer mapping.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Course Delivery:	Classroom
Groups:	Techniques

GEOG
418/818

Introduction to Remote Sensing

[LINK \(http://bulletin.unl.edu/courses/GEOG/418\)](http://bulletin.unl.edu/courses/GEOG/418)

Crosslisted as *NRES 418/818*

Prereqs:
9 hrs earth science or natural resource sciences including [GEOG 150 \(http://bulletin.unl.edu/courses/GEOG/150\)](http://bulletin.unl.edu/courses/GEOG/150) and [152 \(http://bulletin.unl.edu/courses/GEOG/152\)](http://bulletin.unl.edu/courses/GEOG/152), or [155 \(http://bulletin.unl.edu/courses/GEOG/155\)](http://bulletin.unl.edu/courses/GEOG/155).

This course is a prerequisite for: [GEOG 420 \(http://bulletin.unl.edu/courses/GEOG/420\)](http://bulletin.unl.edu/courses/GEOG/420)

Introduction to remote sensing of the earth from aerial and satellite platforms. Aerial photography, multispectral scanning, thermal imaging and microwave remote sensing techniques. Physical foundations of remote sensing using electromagnetic energy, energy-matter interactions, techniques employed in data acquisition and methods of image analysis. Weekly laboratory provides practical experience in visual and digital interpretation of aerial photography, satellite imagery, thermal and radar imagery. Applications in geographic, agricultural, environmental and natural

Credit Hours:	4
Course Format:	Lecture 3, Lab 2
Course Delivery:	Classroom
Groups:	Techniques

resources analyses.

GEOG

419/819

Applications of Remote Sensing in Agriculture and Natural Resources [LINK \(http://bulletin.unl.edu/courses/GEOG/419\)](http://bulletin.unl.edu/courses/GEOG/419)

Crosslisted as *GEOL 419/819, AGRO 419/819, NRES 420/820*

Prereqs:

GEOG/NRES 418 (<http://bulletin.unl.edu/courses/NRES/418>).

Introduction to the practical uses of remote electromagnetic sensing in dealing with agricultural and water-resources issues.

Credit Hours:	4
Course Format:	Lecture 3, Lab 2
Course Delivery:	Classroom
Groups:	Techniques

GEOG

420/820

Digital Image Analysis of Remote Sensing Data [LINK \(http://bulletin.unl.edu/courses/GEOG/420\)](http://bulletin.unl.edu/courses/GEOG/420)

Prereqs:

GEOG 418 (<http://bulletin.unl.edu/courses/GEOG/418>)/818 (<http://bulletin.unl.edu/courses/GEOG/818>) and 419 (<http://bulletin.unl.edu/courses/GEOG/419>)/819 (<http://bulletin.unl.edu/courses/GEOG/819>); or equivalent.

Principles and methods of digital image processing of remotely sensed data. The biophysical basis of remote sensing and the various sensor systems typically used for monitoring terrestrial and aquatic environments. Algorithms for the preprocessing, enhancement, classification and mapping of digital data for agricultural, urban, geological, environmental, and natural resource management problems.

Credit Hours:	4
Course Format:	Lecture 3, Lab 2
Course Delivery:	Classroom
Groups:	Techniques

GEOG

422/822

Advanced Techniques in Geographic Information Systems [LINK \(http://bulletin.unl.edu/courses/GEOG/422\)](http://bulletin.unl.edu/courses/GEOG/422)

Prereqs:

GEOG 412 (<http://bulletin.unl.edu/courses/GEOG/412>)/812 (<http://bulletin.unl.edu/courses/GEOG/812>); or equivalent, or permission.

Vector and quadtree data structures, use of relational database management systems, topologically structured databases, query languages, digital terrain modeling, advanced data analysis methods and research issues in GIS. Extensive practical experience with the current GIS software.

Credit Hours:	4
Course Format:	Lecture 3, Lab 2
Course Delivery:	Classroom
Groups:	Techniques

GEOG

425/825

Scientific Visualization in Cartography [LINK \(http://bulletin.unl.edu/courses/GEOG/425\)](http://bulletin.unl.edu/courses/GEOG/425)

Prereqs:

GEOG 317 (<http://bulletin.unl.edu/courses/GEOG/317>) and either 415 or 417, or permission.

Explores cartographic applications of computer animation and multimedia for the dual purposes of assisting visual thinking in map-oriented research and data exploration, and in communicating geographic ideas to others.

Credit Hours:	4
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom
Groups:	Techniques

GEOG

427/827

Introduction to the Global Positioning System (GPS) [LINK \(http://bulletin.unl.edu/courses/GEOG/427\)](http://bulletin.unl.edu/courses/GEOG/427)

Crosslisted as *NRES 427/827*

Prereqs:

Junior standing and a basic familiarity with mapping and GIS, or permission.

Integrated lectures, lab exercises and field experience provide an

Credit Hours:	2
Course Format:	Lab 1, Lecture 1.5

understanding of GPS technology and applications. Students will learn to collect, correct and use GPS data in a geographic information system (GIS) environment.

Course Delivery: Classroom

GEOG

Cultural Geography

[LINK \(http://bulletin.unl.edu/courses/GEOG/431\)](http://bulletin.unl.edu/courses/GEOG/431)

431/831

The history of cultural geography from von Humboldt through Carl Sauer to the 'new' cultural geographies of Don Mitchell, Gillian Rose and Noel Castree. The current theoretical debates of feminism, post-structuralism, post-colonialism and environmentalism, and the influences of literary and cultural studies in the development of cultural geography and the various methodologies involved.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

Groups: Human-Economic Geography

GEOG

GIS Programming for Advanced Spatial Analysis and Modeling

[LINK \(http://bulletin.unl.edu/courses/GEOG/432\)](http://bulletin.unl.edu/courses/GEOG/432)

432/832

Prereqs:

[GEOG/NRES 412 \(http://bulletin.unl.edu/courses/NRES/412\)](http://bulletin.unl.edu/courses/NRES/412) / [812 \(http://bulletin.unl.edu/courses/NRES/812\)](http://bulletin.unl.edu/courses/NRES/812) or [18 \(http://bulletin.unl.edu/courses/NRES/18\)](http://bulletin.unl.edu/courses/NRES/18) hours of GIS practice.

Techniques for Geoprocessing script programming to customize geographic information systems (GIS), utilize GIS tools, and implement application-specific spatial analysis, modeling algorithms and procedures.

Credit Hours: 4

Course Format: Lab 2, Lecture 2

Course Delivery: Classroom

GEOG

Cultural Survival: Indigenous People's Rights

[LINK \(http://bulletin.unl.edu/courses/GEOG/435\)](http://bulletin.unl.edu/courses/GEOG/435)

435/835

Threats against indigenous peoples' lands, resources and cultural patrimony, languages and knowledge systems more than 500 years after Columbus instigated European colonialism, creating the first global world order. The responses of Indigenous peoples to the imposition of Western dominated economic and political systems. Land rights, economic development, and women's rights from the perspective of different Indigenous communities around the world.

Credit Hours: 3

Max credits per degree: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Human-Economic Geography

GEOG

Geo-demographics and GIS

[LINK \(http://bulletin.unl.edu/courses/GEOG/444\)](http://bulletin.unl.edu/courses/GEOG/444)

444/844

Geo-demographic and GIS analysis, interpretation, and mapping of geographical patterns of population size, population composition and population change. Theoretical and applied investigation of geo-demographic issues involving marketing research, environmental impact analysis, public facilities planning, public health provision, and small-area population change forecasting. Particular attention to GIS use of TIGER and small-area Census data.

Credit Hours: 3

Course Format: Lecture, Lab

Course Delivery: Classroom

Groups: Human-Economic Geography

GEOG

Political Geography

[LINK \(http://bulletin.unl.edu/courses/GEOG/447\)](http://bulletin.unl.edu/courses/GEOG/447)

447/847

Importance of factors of a physical, economic, and human character in political development at local to global scales; international geopolitical aspects of environment, territoriality, core areas, capitals, and boundaries;

Credit Hours: 3

Course Delivery: Classroom

Human-

national geographical patterns of voting, representation, public administration and public policy.

Groups: Economic Geography

GEOG

483/883

Cognitive Processes in Map Comprehension and Use

[LINK \(http://bulletin.unl.edu/courses/GEOG/483\)](http://bulletin.unl.edu/courses/GEOG/483)

Prereqs:

[GEOG 317 \(http://bulletin.unl.edu/courses/GEOG/317\)](http://bulletin.unl.edu/courses/GEOG/317) and [417 \(http://bulletin.unl.edu/courses/GEOG/417\)](http://bulletin.unl.edu/courses/GEOG/417)/[817 \(http://bulletin.unl.edu/courses/GEOG/817\)](http://bulletin.unl.edu/courses/GEOG/817).

How cognitive processes help individuals to comprehend the spatial circumstances or arenas they confront when carrying out their daily activities. Awareness of space, spatial knowing, formation of cognitive maps, importance of spatial images in negotiation of surroundings, and the relationship of cognitive maps to orientation and wayfinding.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Techniques

GEOG

491/891

Geography Field Tour

Crosslisted as *NRES 491*

[LINK \(http://bulletin.unl.edu/courses/GEOG/491\)](http://bulletin.unl.edu/courses/GEOG/491)

Off-campus travel required.

Group educational tours to specific sites that illustrate aspects of physical and cultural geography.

Credit Hours:	2-3
Max credits per semester:	3
Max credits per degree:	6
Course Format:	Field 40
Course Delivery:	Classroom
Groups:	Physical Geography

GEOG

497/897

Internship in Geography

[LINK \(http://bulletin.unl.edu/courses/GEOG/497\)](http://bulletin.unl.edu/courses/GEOG/497)

Prereqs:

Permission.

Applying geographic training with on-the-job learning.

Credit Hours:	1-6
Course Delivery:	Classroom
Groups:	Independent Study

GEOG

498/898

Advanced Special Problems

[LINK \(http://bulletin.unl.edu/courses/GEOG/498\)](http://bulletin.unl.edu/courses/GEOG/498)

Prereqs:

Topic varies, see course description or registration guide.

Credit Hours:	1-24
Course Delivery:	Classroom
Groups:	Special Topics

GEOG

806

Spatial and Environmental Influences in Social Systems

[LINK \(http://bulletin.unl.edu/courses/GEOG/806\)](http://bulletin.unl.edu/courses/GEOG/806)

How space, spatial structure, and spatially oriented behavior operate in social systems, emphasizing their influence on interpersonal communication and/or social exchange.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOG

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/GEOG/899\)](http://bulletin.unl.edu/courses/GEOG/899)

899

Prereqs:
 Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

GEOG **901** **Pro-seminar in Research Methods and Professional Development** [LINK \(http://bulletin.unl.edu/courses/GEOG/901\)](http://bulletin.unl.edu/courses/GEOG/901)

Development of skills required for success in completing a graduate degree and forging a career as a geographer. Setting career goals, designing a graduate program, preparing research proposals, presenting research at professional conferences, reviewing professional literature and writing articles for publication.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

GEOG **902** **General Seminar** [LINK \(http://bulletin.unl.edu/courses/GEOG/902\)](http://bulletin.unl.edu/courses/GEOG/902)

Credit Hours:	1-2
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

GEOG **903** **History and Philosophy of Geography** [LINK \(http://bulletin.unl.edu/courses/GEOG/903\)](http://bulletin.unl.edu/courses/GEOG/903)

History of geographical thought concentrating on the period since 1800. Emphasis on both the traditional and modern ways of viewing the nature of geography and to the linkages between them.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOG **904** **Explanation in Geography** [LINK \(http://bulletin.unl.edu/courses/GEOG/904\)](http://bulletin.unl.edu/courses/GEOG/904)

Course directly complements [GEOG 903](http://bulletin.unl.edu/courses/GEOG/903) (<http://bulletin.unl.edu/courses/GEOG/903>). Methodology or methods of explanation employed in geographic research and their relationship to the goals of the discipline. Problems, hypotheses, laws, theories, and models of a spatial nature.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

GEOG **915** **Seminar in Cartography** [LINK \(http://bulletin.unl.edu/courses/GEOG/915\)](http://bulletin.unl.edu/courses/GEOG/915)

Prereqs:
[GEOG 815 \(http://bulletin.unl.edu/courses/GEOG/815\)](http://bulletin.unl.edu/courses/GEOG/815), [817 \(http://bulletin.unl.edu/courses/GEOG/817\)](http://bulletin.unl.edu/courses/GEOG/817), or permission

Review and examination of cartographic research on map design. Primary emphasis on efficiency and accuracy of maps as devices for spatial understanding and analytical cartography.

Credit Hours:	3-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

GEOG **931** **Comparative Studies of the Dispossession of Indigenous Peoples** [LINK \(http://bulletin.unl.edu/courses/GEOG/931\)](http://bulletin.unl.edu/courses/GEOG/931)

931

Dispossession of the indigenous peoples of Australia, Canada, New Zealand, and the United States from a historical, spatial and interdisciplinary approach. Emphasis on human rights, including topics such as the legal assumptions of colonization, reduction of land holdings, population loss, resistance, and land claims.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOG

935**Seminar in Historical Geography**[LINK \(http://bulletin.unl.edu/courses/GEOG/935\)](http://bulletin.unl.edu/courses/GEOG/935)

Discussion of current literature and research on selected aspects of historical geography. Specific theme of course varies according to instructor.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

GEOG

940**Seminar in Human Geography**[LINK \(http://bulletin.unl.edu/courses/GEOG/940\)](http://bulletin.unl.edu/courses/GEOG/940)

Structure of settlement patterns and the factors influencing their development.

Credit Hours:	1-9
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

GEOG

983**Seminar on Behavioral Processes in Person/Environment Relations**[LINK \(http://bulletin.unl.edu/courses/GEOG/983\)](http://bulletin.unl.edu/courses/GEOG/983)

Prereqs:
Senior-level masters degree candidate or PhD-level in human geography or design or planning or any of the social and behavioral disciplines or permission

GEOG 983 (<http://bulletin.unl.edu/courses/GEOG/983>) consists of a four, participant-led, research/discussion sessions. Environments as potentially significant components of behavioral episodes based on the premise that places, settings, or environments provide the contexts for and arenas within which people act, interact, and transact. Significance of the physical/sociocultural surrounds derived not solely from their physical presence, but from them, meaning attached to them, and their importance. Topics: common importance of person/environment relations to diverse interests concerned with individual and group behavior in everyday, natural settings; how people experience their environments or "environmental knowing" through perceptual/cognitive processes; environmental representations, images, schemas, and/or cognitive "maps"; and attributions of meaning and significance to environments.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GEOG

996**Non-thesis Research**[LINK \(http://bulletin.unl.edu/courses/GEOG/996\)](http://bulletin.unl.edu/courses/GEOG/996)

Prereqs:
24 hrs geography and permission

Credit Hours:	1-4
Max credits per degree:	24
Campus:	
Course Delivery:	Classroom

GEOG

Doctoral Dissertation

999[LINK \(http://bulletin.unl.edu/courses/GEOG/999\)](http://bulletin.unl.edu/courses/GEOG/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Campus:	
Course Delivery:	Classroom

(1–24, max 55)

GPSP

400/800**Seminar in Great Plains Studies**Crosslisted as *HIST 400/800, GEOG 400/800*[LINK \(http://bulletin.unl.edu/courses/GPSP/400\)](http://bulletin.unl.edu/courses/GPSP/400)

Prereqs:
A course in the study of the Great Plains.

GPSP/GEOG/HIST 400 (http://bulletin.unl.edu/courses/HIST/400) is required for a GPSP major or minor.

Topic varies.

Credit Hours:	3
Course Delivery:	Classroom

NRES

408/808**Microclimate: The Biological Environment**Crosslisted as *GEOG 408/808, METR 408/808, HORT 408/808, AGRO 408/808, WATS 408*[LINK \(http://bulletin.unl.edu/courses/NRES/408\)](http://bulletin.unl.edu/courses/NRES/408)

Prereqs:
Junior standing, [MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106) or equivalent, 5 hrs physics, major in any of the physical or biological sciences or engineering; or permission.

Physical factors that create the biological environment. Radiation and energy balances of earth's surfaces, terrestrial and marine. Temperature, humidity, and wind regimes near the surface. Control of the physical environment through irrigation, windbreaks, frost protection, manipulation of light, and radiation. Applications to air pollution research. Instruments for measuring environmental conditions and remote sensing of the environment.

Credit Hours:	3
Course Delivery:	Classroom

NRES

421/821**Field Techniques in Remote Sensing**Crosslisted as *GEOG 421/821*[LINK \(http://bulletin.unl.edu/courses/NRES/421\)](http://bulletin.unl.edu/courses/NRES/421)

Prereqs:
[NRES 418 \(http://bulletin.unl.edu/courses/NRES/418\)](http://bulletin.unl.edu/courses/NRES/418)/818 (<http://bulletin.unl.edu/courses/NRES/818>).

Field techniques as they relate to remote-sensing campaigns. Research methods, systematic approaches to data collection, field spectroscopy, collecting ancillary information linked with spectroscopic data sets as well as aircraft or satellite missions and subsequent analyses of acquired data.

Credit Hours:	3
Course Format:	Lecture 2, Lab
Course Delivery:	Classroom

NRES

452/852**Climate and Society**Crosslisted as *GEOG 450/850, METR 450/850, AGRO 450/850*[LINK \(http://bulletin.unl.edu/courses/NRES/452\)](http://bulletin.unl.edu/courses/NRES/452)

Prereqs:
[METR 200 \(http://bulletin.unl.edu/courses/METR/200\)](http://bulletin.unl.edu/courses/METR/200) or [351 \(http://bulletin.unl.edu/courses/METR/351\)](http://bulletin.unl.edu/courses/METR/351) or equivalent.

Offered spring semester of even-numbered calendar years.

Impact of climate and extreme climatic events on society and societal responses to those events. Global in scope and interdisciplinary.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

NRES

Bio-Atmospheric Instrumentation[LINK \(http://bulletin.unl.edu/courses/NRES/469\)](http://bulletin.unl.edu/courses/NRES/469)

469/869 Crosslisted as *GEOG 469/869, METR 469/869, HORT 407/807, AGRO 469/869, MSYM 469/869*

Prereqs:

Junior standing; MATH 106
<http://bulletin.unl.edu/courses/MATH/106>; 4 hrs physics; physical or biological science major.

Offered fall semester of odd-numbered calendar years.

Discussion and practical application of principles and practices of measuring meteorological and related variables near the earth's surface including temperature, humidity, precipitation, pressure, radiation and wind. Performance characteristics of sensors and modern data collection methods are discussed and evaluated.

Credit Hours:	3
Course Format:	Lecture 2, Lab 1
Course Delivery:	Classroom

NRES

Great Plains Field Pedology

[LINK \(http://bulletin.unl.edu/courses/NRES/477\)](http://bulletin.unl.edu/courses/NRES/477)

477/877 Crosslisted as *GEOG 467/867, AGRO 477, SOIL 477*

Prereqs:

AGRO/SOIL 153 (<http://bulletin.unl.edu/courses/SOIL/153>).

This course is a prerequisite for: [GEOL 465 \(http://bulletin.unl.edu/courses/GEOL/465\)](http://bulletin.unl.edu/courses/GEOL/465)

Spatial relationship of soil properties on various parts of landscape typical of the Plains, causal factors, and predictions of such relationships on other landscapes. Grouping these properties into classes, naming the classes, and the taxonomy that results from this grouping. Application of a taxonomy to a real situation through making a field soil survey in a region representative of the Plains border, predicting land use response of various mapped units as it affects the ecosystem, and evaluating the effectiveness of the taxonomic system used in the region surveyed.

Credit Hours:	4
Course Format:	Lab, Lecture 3
Course Delivery:	Classroom

NRES

Water Resources Seminar

[LINK \(http://bulletin.unl.edu/courses/NRES/484\)](http://bulletin.unl.edu/courses/NRES/484)

484/884 Crosslisted as *GEOG 484/884, GEOL 484/884, AGRO 484/884, WATS 484*

Prereqs:

Junior or above standing, or permission.

Seminar on current water resources research and issues in Nebraska and the region.

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Classroom

NRES

Seminar in Geographic Information Systems (GIS)

[LINK \(http://bulletin.unl.edu/courses/NRES/922\)](http://bulletin.unl.edu/courses/NRES/922)

922 Crosslisted as *GEOG 922*

Prereqs:

GEOG/NRES 812 (<http://bulletin.unl.edu/courses/NRES/812>) and **822** (<http://bulletin.unl.edu/courses/NRES/822>); or equivalent

Study of current research and trends in geographic information systems (GIS), GIScience, and GeoComputation. Advanced spatial analytical techniques and geospatial modeling emphasizing GIS applications in natural resources assessment, environmental analyses, agriculture, and land management.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

POLS

Pro-seminar in International Relations I

[LINK \(http://bulletin.unl.edu/courses/POLS/466\)](http://bulletin.unl.edu/courses/POLS/466)

466/866 Crosslisted as *HIST 479/879, SOCI 466/866, ANTH 479/879, GEOG 448/848, ECON 466/866, AECN 467*

Prereqs:

Senior standing and permission.

Open to students with an interest in international relations.

Topic varies

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom

Q

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Geography).
(<http://www.unl.edu/gradstudies/prospective/programs/Geography>)

Coordinator and Geography Graduate Committee Chair: James W. Merchant, Ph.D.

Graduate Committee: Professors Amedeo, Archer, Dewey, Lonsdale, Merchant, Narumalani, Rundquist, Stoddard, Wilhite, Wishart; Associate Professors Hanson, Wardlow, Zygielbaum; Assistant Professors Guan, Knutson

Graduate students can pursue either an MA or PhD in Geography. Particularly strong programs exist in: (1) Geographic Information Science, emphasizing geographic information systems (GIS), remote sensing and cartography; (2) Historical and Human Geography, focusing on culture and settlement of the Great Plains, environmental perception and political behavior; (3) Natural Resources and Environmental Geography, emphasizing geospatial dimensions of conservation, water resources, natural hazards, climatology and related areas, and (4) Community and Regional Planning, a cross-disciplinary doctoral program combining strengths of the Faculty of Geography and GIScience and faculty of Community and Regional Planning. Graduate College approved specializations in geography include Community and Regional Planning (doctoral-level only), Environmental Geography, Ethnic Studies, Great Plains Studies, and GIS/Cartography/Remote Sensing. When completed successfully, specializations are explicitly indicated on the student transcript. Students may have concentrations of work in areas other than Graduate College approved specializations.

Geography graduate students have considerable flexibility in designing academic programs tailored to their individual interests and career goals. Teaching and research assistantships are provided on a competitive basis; internships with public agencies are often available as well. Many Geography faculty and students are affiliated with UNL research centers such as the Center for Advanced Land Management Information Technologies, the National Drought Mitigation Center, the High Plains Regional Climate Center and the Center for Great Plains Studies.

Prospective students should have either earned a prior degree in Geography or should be prepared to take a prescribed set of essential geography prerequisite courses if accepted into the graduate program. GRE scores (verbal and quantitative) are required for graduate admission.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Geography).
(<http://www.unl.edu/gradstudies/prospective/programs/Geography>)

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Gerontology

Q

Courses for GERO (GERO)

GERO

Educational Gerontology

[LINK \(http://bulletin.unl.edu/courses/GERO/410\)](http://bulletin.unl.edu/courses/GERO/410)

410/810

Introduction to the field of education for and about the aging. Institutions and processes of education will be analyzed to determine their relationships and value to persons who are now old and those who are aging.

Credit Hours:	3
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Course Delivery:	Classroom
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GERO

Issues in Aging

[LINK \(http://bulletin.unl.edu/courses/GERO/435\)](http://bulletin.unl.edu/courses/GERO/435)

435/835

Prereqs:
Junior or senior standing.

For students in gerontology and in other fields who are interested in a humanistic approach to understanding significant issues which affect the lives of older people.

Credit Hours:	3
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Course Delivery:	Classroom
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GERO

Psychology of Adult Development and Aging

[LINK \(http://bulletin.unl.edu/courses/GERO/446\)](http://bulletin.unl.edu/courses/GERO/446)

446/846

Crosslisted as *PSYC 446*

Prereqs:
PSYC 181 (<http://bulletin.unl.edu/courses/PSYC/181>) or GERO 200 (<http://bulletin.unl.edu/courses/GERO/200>).

Major social and psychological changes that occur as a function of aging. Both normal and abnormal patterns of developmental change including their implications for behavior.

Credit Hours:	3
Course Delivery:	Classroom

GERO **Mental Health and Aging**

447/847

[LINK \(http://bulletin.unl.edu/courses/GERO/447\)](http://bulletin.unl.edu/courses/GERO/447)

Prereqs:
Junior or senior standing.

Mental health needs of older adults. Identifying both positive mental health and pathological conditions. Treatment interventions effective with older adults and their families.

Credit Hours:	3
Course Delivery:	Classroom

GERO **Legal Aspects of Aging**

450/850

[LINK \(http://bulletin.unl.edu/courses/GERO/450\)](http://bulletin.unl.edu/courses/GERO/450)

Consideration of the legal concerns which are likely to arise as people age. Includes introduction to the American legal system and emphasis on underlying legal concepts and issues of special importance to older persons.

Credit Hours:	3
Course Delivery:	Classroom

GERO **Long-term Care Administration**

451/851

[LINK \(http://bulletin.unl.edu/courses/GERO/451\)](http://bulletin.unl.edu/courses/GERO/451)

Investigation of the broad range of policy issues, theoretical concerns, and practical management strategies influencing the design, organization, and delivery of long-term care services.

Credit Hours:	3
Course Delivery:	Classroom

GERO **Health Aspects of Aging**

455/855

[LINK \(http://bulletin.unl.edu/courses/GERO/455\)](http://bulletin.unl.edu/courses/GERO/455)

Psychological, sociological, and physiological factors that influence the health of the aging, with particular emphasis given to biological changes that have implications for disease and health disorders.

Credit Hours:	3
Course Delivery:	Classroom

GERO **Disorders of Communication in Older Adults**

459/859

[LINK \(http://bulletin.unl.edu/courses/GERO/459\)](http://bulletin.unl.edu/courses/GERO/459)

Familiarizes the student with the identification and symptomology, basic assessment and intervention strategies associated with disorders of communication affecting older adults and geriatric patients. Beneficial to students majoring in gerontology, or speech pathology, as an elective course, or as a professional enrichment course for persons working in these or related fields.

Credit Hours:	3
Course Delivery:	Classroom

GERO **Programs and Services for the Elderly**

467/867

[LINK \(http://bulletin.unl.edu/courses/GERO/467\)](http://bulletin.unl.edu/courses/GERO/467)

Prereqs:

Credit Hours:	3
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Historical overview of programs for the elderly, to examine the national policy process as it relates to the older American, and to review the principles and practices relative to the existing national programs for the aged.

GERO **Working with Minority Elderly**

469/869

Crosslisted as *SOCW 404/804*

[LINK \(http://bulletin.unl.edu/courses/GERO/469\)](http://bulletin.unl.edu/courses/GERO/469)

Prereqs:
Junior or senior in gerontology or social work, or permission.

Interdisciplinary course designed to provide the student with knowledge of the differing status, attitudes, and experiences of the elderly within four major minority groups and to examine various service systems and practice models in terms of their relevance and effectiveness in meeting needs of minority elderly.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom

GERO **Baby Boomers and 21st century**

472/8726

[LINK \(http://bulletin.unl.edu/courses/GERO/472\)](http://bulletin.unl.edu/courses/GERO/472)

Marketing decisions and strategies apply to all businesses and are influenced by the target market. The economic realities and the character of America will change due to shifting demographics of baby boomers. Businesses that understand the power of the baby boomers will succeed; failure to understand that power may lead to economic consequences. Students from many disciplines will benefit from this cross-referenced course blending the realities of gerontology with the predictions of baby boomer behavior and the resulting impact to all businesses.

Credit Hours:	3
Course Format:	Independent Study
Campus:	UNO
Course Delivery:	Web

GERO **Mid-life Career Change and Pre-Retirement**

475/875

[LINK \(http://bulletin.unl.edu/courses/GERO/475\)](http://bulletin.unl.edu/courses/GERO/475)

Examination of mid-life as it applies to the concept of second careers, existing resources, and the future of second careers; and the concept and practical implications of preretirement planning.

Credit Hours:	3
Course Delivery:	Classroom

GERO **Hospice and Other Services for the Dying Patient/Family**

485/885

Crosslisted as *SOCW 485*

[LINK \(http://bulletin.unl.edu/courses/GERO/485\)](http://bulletin.unl.edu/courses/GERO/485)

Prereqs:
Senior or graduate in social work or permission of School.

Designed to involve students in the recognition of fears, concerns, and needs of dying patients and their families by examining the hospice concept and other services available in our community. Factual information, readings, professional presentations, films, and experiential exercises are offered to aid the student in understanding that hospice is an alternative to the traditional medical model so that when the "cure" system is no longer functional, then the "care" system, hospice, can be offered.

Credit Hours:	3
Max credits per degree:	3
Course Format:	Lecture
Course Delivery:	Classroom

GERO **Special Studies in Gerontology**

492/892

[LINK \(http://bulletin.unl.edu/courses/GERO/492\)](http://bulletin.unl.edu/courses/GERO/492)

Prereqs:
6 hrs gerontology or permission.

Credit Hours:	1-3
Max credits per degree:	3

Special studies designed around the interests and needs of the individual student in such areas as the psychology, sociology, economics, or politics of aging, as well as operation of various service systems. May be either a literature review project or a field project in which experience is gained in the community identifying and analyzing needs and services related to older people.

Course Delivery: Classroom

GERO
494/894

Practicum

[LINK \(http://bulletin.unl.edu/courses/GERO/494\)](http://bulletin.unl.edu/courses/GERO/494)

Prereqs:
9 hrs gerontology and permission.

Opportunity for students to share field experiences; to obtain guidance concerning various relationships with agency, staff, and clients; and to develop a broadly based perspective of the field of aging.

Credit Hours: 3
Course Delivery: Classroom

GERO
498/898

Counseling Skills in Gerontology

[LINK \(http://bulletin.unl.edu/courses/GERO/498\)](http://bulletin.unl.edu/courses/GERO/498)

Prereqs:
Junior or senior standing.

Develops basic counseling skills for application in gerontology.

Credit Hours: 3
Course Delivery: Classroom

GERO
842

Therapeutic Recreation

[LINK \(http://bulletin.unl.edu/courses/GERO/842\)](http://bulletin.unl.edu/courses/GERO/842)

Introduces the student to the field of recreation for the aging in nursing homes and community-based recreation programs. A portion of the course involves students visiting recreation sites

Credit Hours: 3
Campus:
Course Delivery: Classroom

GERO
899

Master's Thesis

[LINK \(http://bulletin.unl.edu/courses/GERO/899\)](http://bulletin.unl.edu/courses/GERO/899)

Prereqs:
Permission

The thesis is written under the supervision of the thesis adviser and the thesis committee. Independent research project required of all students working toward the master of arts degree.

Credit Hours: 1-6
Campus:
Course Delivery: Classroom

GERO
911

Applied Social Gerontology

[LINK \(http://bulletin.unl.edu/courses/GERO/911\)](http://bulletin.unl.edu/courses/GERO/911)

Restricted to graduate students only; required of gerontology students. Social gerontology with an emphasis on the interplay between social, psychological and physical elements in later life.

Credit Hours: 3
Campus:
Course Delivery: Classroom

GERO
946

Aging and Human Behavior

[LINK \(http://bulletin.unl.edu/courses/GERO/946\)](http://bulletin.unl.edu/courses/GERO/946)

Intended primarily for graduate students in psychology and gerontology. Age-related changes in psychological processes and the implications of

Credit Hours: 3
Campus:

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Description

Department Chair: Julie Masters, Ph.D.

A degree program in social gerontology is available through the University of Nebraska at Omaha with courses on both the Lincoln and Omaha campuses.

The master of arts in social gerontology is designed to help meet the educational needs of two principal groups. First, the degree program is designed for those who are mid-career professionals who wish to gain additional knowledge and insight from the research in the field of gerontology, who wish to interpret the research critically, and who may wish to be prepared to conduct research on their own. A second smaller group that may benefit from the program consists of those who have gerontology as a primary academic interest and who intend to continue on in pursuit of a doctoral degree.

Doctoral Specialization in Gerontology

The departments of Child, Youth and Family studies and Gerontology, in conjunction with the Graduate College, offer a PhD (doctor of philosophy) in human sciences with a specialization in gerontology. The specialization draws on theory, research and practice in the field of education, gerontology and human development.

Due to the unique nature of this interdepartmental specialization, students are able to benefit from the broader range of expertise and perspectives. Students pursuing the specialization in gerontology will have the opportunity to create a program of study with advice and support of their doctoral advisory committee. Courses include those offered through Child, Youth and Family Studies and Gerontology and are available on the Lincoln and Omaha campuses.

Additional information can be obtained from:

Department of Gerontology
CPACS Building Room 210
6001 Dodge Street
University of Nebraska at Omaha
Omaha, NE 68182
phone: 402-554-2272
fax: 402-554-2317
or
Dr. Julie Masters, Department Chair
phone: 402-554-3953
email: jmasters@unomaha.edu

For Application Information:

Diane Carson
Child, Youth and Family Studies
University of Nebraska-Lincoln
135 Mabel Lee Hall
PO Box 880236
Lincoln, NE 68588-0236
phone: 402-472-8209
email: dcarson2@unl.edu

Faculty

- Holley, Lyn M. -2004; Assistant Professor; BA 1964 American; MPA 1995, PhD 1999 Nebraska (Omaha)
- Kelly, Christopher M. -2006; Assistant Professor; BA 1994 Notre Dame; PhD 2004 Southern California
- Kercher, Kyle -2005; Professor; BA 1972 California State (Fresno); MA 1975 California (Santa Barbara); PhD 1984 Washington
- Kosloski, Karl D. -1994; Professor and Acting Chair; BA 1973 Minnesota; MA 1975 Middle Tennessee State; PhD 1984 Nevada (Reno)
- Masters, Julie -2001; Associate Professor; BA 1984 Nebraska (Omaha); MA 1985 Northern Colorado; PhD 1997 Nebraska (Lincoln)
- Thorson, James A. -1977; Professor; BS 1967 Northern Illinois; MEd 1971 North Carolina (Chapel Hill); EdD 1975 Georgia

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Graduate Studies

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Courses for GRDC (GRDC)

GRDC
900A Future Faculty I

[LINK \(http://bulletin.unl.edu/courses/GRDC/900A\)](http://bulletin.unl.edu/courses/GRDC/900A)

This course is a prerequisite for: [GRDC 900B \(http://bulletin.unl.edu/courses/GRDC/900B\)](http://bulletin.unl.edu/courses/GRDC/900B),
[GRDC 900D \(http://bulletin.unl.edu/courses/GRDC/900D\)](http://bulletin.unl.edu/courses/GRDC/900D)

Credit Hours: 1

Campus:

P/N. First course in a two-semester Preparing Future Faculty Program introducing advanced graduate students to various faculty roles. Seminar participants interact with faculty from surrounding campuses, prepare teaching portfolios, present job talks, and engage in mock interviews. They discuss teaching and research expectations, tenure and promotion standards, campus life, and faculty governance at different types of colleges and universities.

Course Delivery: Classroom

GRDC

900B

Future Faculty II

[LINK \(http://bulletin.unl.edu/courses/GRDC/900B\)](http://bulletin.unl.edu/courses/GRDC/900B)

Prereqs:

[GRDC 900A \(http://bulletin.unl.edu/courses/GRDC/900A\)](http://bulletin.unl.edu/courses/GRDC/900A)

P/N. Second course in a two-semester Preparing Future Faculty Program introducing advanced graduate students to various faculty roles. Seminar participants interact with faculty from surrounding campuses, prepare teaching portfolios, present job talks, and engage in mock interviews. They discuss teaching and research expectations, tenure and promotion standards, campus life, and faculty governance at different types of colleges and universities.

Credit Hours: 1

Campus:

Course Delivery: Classroom

GRDC

900D

Future Faculty III

[LINK \(http://bulletin.unl.edu/courses/GRDC/900D\)](http://bulletin.unl.edu/courses/GRDC/900D)

Prereqs:

[GRDC 900A \(http://bulletin.unl.edu/courses/GRDC/900A\)](http://bulletin.unl.edu/courses/GRDC/900A) and [900B \(http://bulletin.unl.edu/courses/GRDC/900B\)](http://bulletin.unl.edu/courses/GRDC/900B)

P/N only. Third course in a three-semester sequence, Preparing Future Faculty program that introduces advanced graduate students to various faculty roles and to the use of technology in college instruction. Participants develop instructional technology applications and are mentored in the delivery of distance education.

Credit Hours: 1

Campus:

Course Delivery: Classroom

GRDC

901

Professional Ethics

[LINK \(http://bulletin.unl.edu/courses/GRDC/901\)](http://bulletin.unl.edu/courses/GRDC/901)

Prereqs:

Permission

Major ethical issues in the conduct of research and teaching, Topics identified by the National Academy of Science as critical to responsible research: the acquisition and maintenance of research data, including issues of informed consent and rules about safety and animal use; responsible reporting of research, including authorship issues, duplicate and fragmented publication, and reporting in the public media; peer review, including issues of confidentiality and conflict of interest; and the ethical training and supervision of students, including the assignment of mentors, appropriate supervision and fair performance evaluation, and the avoidance of exploitation.

Credit Hours: 1

Campus:

Course Delivery: Classroom

GRDC

902

Grant Writing and Grant Management

[LINK \(http://bulletin.unl.edu/courses/GRDC/902\)](http://bulletin.unl.edu/courses/GRDC/902)

Prereqs:

Permission

P/N only. Tips for writing successful grants, for identifying funding sources, and for making effective use of program officers. Core issues in grant management, including issues related to IRB review and approval, development of a budget and matching fund requests, and reporting responsibilities. Students develop and refine a submittable dissertation

Credit Hours: 1

Campus:

Course Delivery: Classroom

GRDC

903**Professional Development Seminar**[LINK \(http://bulletin.unl.edu/courses/GRDC/903\)](http://bulletin.unl.edu/courses/GRDC/903)**Prereqs:
Permission**

P/N only. Insights in developing professional careers through invited lectures and colloquia. Finding a mentor and negotiating a graduate program, the scholarly publication process, developing professional networks, building and working in interdisciplinary teams, applying for jobs, university and industry collaborations, and developing a research and teaching program. Career concerns of students from groups under-represented in their field of study and to students interested in pursuing careers outside of the academy.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

GRDC

98**Responsible Research Training**[LINK \(http://bulletin.unl.edu/courses/GRDC/98\)](http://bulletin.unl.edu/courses/GRDC/98)

Prereqs:
GRDC 098 (<http://bulletin.unl.edu/courses/GRDC/98>) is 'Pass/No Pass only.'

Web-based course providing didactic training in the Responsible Conduct of Research (RCR) designed to meet the RCR training requirement specified by the National Science Foundation and specific programs at the National Institutes of Health.

Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

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Description

The Office of Graduate Studies offers a series of seminars designed to provide interdisciplinary professional development opportunities to graduate students enrolled in UNL graduate degree programs. The courses are designed to foster discussion about and develop skills necessary for the broad range of academic and non-academic careers.

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Great Plains Studies

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Courses for GPSP (GPSP)

GPSP

400/800**Seminar in Great Plains Studies**Crosslisted as *HIST 400/800, GEOG 400/800*[LINK \(http://bulletin.unl.edu/courses/GPSP/400\)](http://bulletin.unl.edu/courses/GPSP/400)

Prereqs:
A course in the study of the Great Plains.

GPSP/GEOG/HIST 400 (<http://bulletin.unl.edu/courses/HIST/400>) is required for a GPSP major or minor.

Topic varies.

Credit Hours:	3
Course Delivery:	Classroom

GPSP

495/895**Internship**[LINK \(http://bulletin.unl.edu/courses/GPSP/495\)](http://bulletin.unl.edu/courses/GPSP/495)

Prereqs:
For GPSP 495: Junior standing, Great Plains major or minor, and permission.

Credit Hours:	1-6
Max credits per semester:	6
Course Format:	Field

For GPSP 895: permission. P/N only.

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Description

(Interdepartmental Area of Specialization)

Director: James Stubbendieck

Advisory Committee: Professors Archer, Brandle, Edwards, Hayden, Horst, Kaye, R. Lee, Scholz, Supalla, Swinehart, Winkle; Associate Professors Ertl, Parsons, S. Wunder; Assistant Professors Demers, Garza, Heng-Moss

Majors Participating (Masters): Agricultural Economics; Agricultural Leadership, Education and Communication; Agronomy; Anthropology; Architecture; Communication Studies; Community and Regional Planning; English; Geography; Geosciences; History; Natural Resource Sciences; and Teaching, Learning and Teacher Education

Majors Participating (Doctoral): Agricultural Economics; Agronomy; Communication Studies; English; Geography; Geosciences; History; and Natural Resource Sciences

The objective of the Great Plains Studies Interdepartmental Area of Specialization is to provide an understanding of the complex and unique features of the Great Plains. Regional inquiry invites an analysis of the relationships between the natural and managed environment and the cultures brought to it by various indigenous and immigrant populations, as well as the implications of these relationships for the future. The specialization is facilitated by the Center for Great Plains Studies, which is the oldest and largest interdisciplinary, intercollegiate, regional research and teaching center in the United States. See our Web site: www.unl.edu/plains/academics/graduate.html.

Masters-level Specialization Requirements:

The specialization is available to any student accepted to pursue a masters degree within a participating department. One member of the student's examining committee must be a Fellow of the Center for Great Plains Studies.

Each student will be required to complete:

1. A masters degree in one of the participating departments
2. GPSP 800 Seminar in Great Plains Studies (3 cr)
3. Six (6) additional credit hours of Great Plains Studies courses from departments outside the student's major department
4. Under any option (I, II, or III) there should be a Great Plains component. For example, when a student completes Option I (thesis), that thesis should present some issues(s) relevant to the Great Plains.

Doctoral-level Specialization Requirements:

The specialization is available to any student accepted into a doctoral program within any of the participating departments or interdepartmental areas. One member of the student's examining committee must be a Fellow of the Center for Great Plains Studies.

Each student will be required to complete:

1. A doctoral degree in one of the participating departments or interdepartmental areas
2. GPSP 800 Seminar in Great Plains Studies (3 cr)
3. Twelve (12) additional credit hours of Great Plains Studies courses from departments outside the student's major department. No more than six (6) hours should be in one department.
4. The dissertation should present some issues(s) relevant to the Great Plains.

Interdepartmental Courses

Agricultural Economics (AECN)

AECN 832. Economics of Agricultural Production

AECN 856. Environmental Law

AECN 857. Water Law

AECN 865. Resource & Environmental Economics II

AECN 868. Advanced Resource & Environmental Economics

Agricultural Leadership, Education and Communication (ALEC)

ALEC 801. Theoretical Foundations of Leadership

ALEC 810. Environmental Leadership: A Historical & Ethical Perspective

ALEC 833. Planning & Implementation of Cooperative Extension Programs for Domestic & Foreign Audiences

ALEC 901. Leading Change in Rural America & Beyond

Agronomy & Horticulture

■ Agronomy (AGRO)

AGRO 808. Microclimate: The Biological Environment (GEOG/NRES 808)

AGRO 835. Agroecology (NRES 835)
AGRO 840. Great Plains Ecosystems (RNGE 440)
AGRO 842. Wildland Plants
AGRO 844. Vegetation Analysis
AGRO 845. Livestock Management on Range & Pasture
AGRO 850. Climate & Society (GEOG/ METR 850, NRES 852)
AGRO 875. Water Quality Strategy (CRPL/ GEOL/NRES 875)
AGRO 877. Great Plains Field Pedology (GEOG 867/NRES 877)
AGRO 881. Water Resources Seminar (GEOG 881, NRES 815)

▪ **Horticulture (HORT)**

HORT 909. Responses to Environment (AGRO/NRES 909)

Anthropology & Geography

▪ **Anthropology (ANTH)**

ANTH 816. Topics in Cultural Anthropology
ANTH 819. Art & Anthropology of Native North America
ANTH 833. North American Archaeology
ANTH 834. An Intro to Plains Archaeology
ANTH 851. Contemporary Issues of Indigenous Peoples in North America
ANTH 854. Traveling Ethnographic Field School
ANTH 876. Human Rights, Environment & Development
ANTH 880. Advanced Fieldwork
ANTH 883. Advanced Field Methods
ANTH 896. Special Readings in Anthropology
ANTH 898. Advanced Current Topics in Anthropology
ANTH 953. Seminar in Anthropology & Geography (GEOG 933)

▪ **Geography (GEOG)**

GEOG 850. Climate & Society (AGRO/ METR 850, NRES 852)
GEOG 877. Great Plains Field Pedology (AGRO/NRES 877)
GEOG 881. Water Resources Seminar (AGRO 881, GEOL/NRES 815)
GEOG 933. Seminar in Anthropology & Geography (ANTH 953)
GEOG 935. Seminar in Historical Geography: Great Plains

Architecture

IDES 860. Preservation & Conservation of Historic Interiors
ARCH 848. Architecture of the Great Plains
ARCH 860. Environmental Survey & Analysis (CRPL 872)
ARCH 863. Architectural Preservation

Art and Art History (AHIS)

AHIS 898. Special Topics: American Art & Regionalism; Great Plains

Biological Sciences (BIOS)

BIOS 855. Great Plains Flora
BIOS 859. Limnology (NRES 859)
BIOS 864. Fisheries Biology (NRES 864)
BIOS 870. Prairie Ecology
BIOS 882. Field Entomology
BIOS 887. Field Parasitology
BIOS 888. Natural History of the Invertebrates
BIOS 891. Ichthyology (NRES 889)
BIOS 894. Ornithology

Communication Studies (COMM)

COMM 830. Political Communication
COMM 950B. Seminar in Intercultural Communication
COMM 985. Cultural Criticism

Community and Regional Planning (CRPL)

CRPL 800. Intro to Planning
CRPL 804. Legal Aspects of Planning
CRPL 860. Planning & Design in the Built Environment
CRPL 870. Environmental Planning & Policy
CRPL 872. Environmental Survey & Analysis (ARCH 860)
CRPL 875. Water Quality Strategy (AGRO/GEOL/NRES 875)
CRPL 877. Recreation & Park Planning
CRPL 880. Economic Development Planning
CRPL 895H. Selected Topics: Housing: Issue & Innovations
CRPL 895Q. Selected Topics: Historic Preservation Planning

CRPL 895T. Selected Topics: Issues in Community Transit Planning
CRPL 896. Special Problems: Rural & Small Town Planning

Economics (ECON)

ECON 840. Regional Development
ECON 842. Regional Analysis
ECON 857. US Economic History: 19th Century
ECON 858. US Economic History: 20th Century
ECON 871. Public Finance
ECON 872. Efficiency in Government

English (ENGL)

ENGL 805K. Canadian Fiction
ENGL 811B. Plains Literature
ENGL 845K. Ethnic Literature: Native American Literature
ENGL 911. Seminars in Great Plains Literature
ENGL 933B. Seminar in American Authors since 1900: Willa Cather

Geosciences

▪ **Geology (GEOL)**

GEOL 815. Water Resources Seminar (AGRO/ GEOG 881, NRES 815)
GEOL 823. Quaternary Ecology & Climate (BIOS 823)
GEOL 850. Surficial Processes & Landscape Evolution
GEOL 875. Water Quality Strategy (AGRO/CRPL/NRES 875)
GEOL 881. Environmental & Urban Geology
GEOL 888. Groundwater Geology (NRES 888)
GEOL 889. Hydrogeology (NRES 887)
GEOL 929. Mesozoic & Cenozoic Stratigraphy
GEOL 934. Site Analysis in Vertebrate Paleontology
GEOL 935. Cenozoic Vertebrate Paleoecology
GEOL 953. Glacial Geology

▪ **Meteorology (METR)**

METR 850. Climate & Society (AGRO/GEOG 850, NRES 852)

History (HIST)

HIST 852. American Frontier in the Nineteenth Century
HIST 864. Native American History: Selected Topics
HIST 865. History of Plains Indians
HIST 889L. Directed Readings: History of the Great Plains
HIST 889J. Directed Readings: The History & Culture of the American Indian

Natural Resource Sciences (NRES)

NRES 808. Microclimate: The Biological Environment (AGRO/GEOG 808)
NRES 815. Water Resources Seminar (AGRO/GEOG 881, GEOL 815)
NRES 823. Integrated Resource Management
NRES 835. Agroecology (AGRO 835)
NRES 850. Biology of Wildlife Populations
NRES 852. Climate & Society (AGRO/GEOG/METR 850)
NRES 859. Limnology (BIOS 859)
NRES 864. Fisheries Biology (BIOS 892)
NRES 868. Wetlands
NRES 875. Water Quality Strategy (AGRO/CRPL/GEOL 875)
NRES 877. Great Plains Field Pedology (AGRO/GEOG 877)
NRES 887. Hydrogeology (GEOL 889)
NRES 888. Groundwater Geology (GEOL 888)
NRES 889. Ichthyology

Teaching, Learning & Teacher Education (TLTE)

TEAC 925E. Seminar in the Curriculum & Teaching of Social Studies: Great Plains

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History

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Courses for HIST (HIST)

AHIS

988

Introduction to the Interdisciplinary Study of the Middle Ages

[LINK \(http://bulletin.unl.edu/courses/AHIS/988\)](http://bulletin.unl.edu/courses/AHIS/988)

Crosslisted as *ENGL 988, HIST 988, MODL 988, MUSC 988*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Middle Ages. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AHIS

989

Introduction to the Interdisciplinary Study of the Renaissance

[LINK \(http://bulletin.unl.edu/courses/AHIS/989\)](http://bulletin.unl.edu/courses/AHIS/989)

Crosslisted as ENGL 989, HIST 989, MODL 989, MUSC 989

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Renaissance. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ANTH

478/878

Pro-seminar in Latin American Studies

[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)

Crosslisted as HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878

Prereqs:
Junior standing and permission.

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Credit Hours:	3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

CLAS

307/807

Early Christianity

[LINK \(http://bulletin.unl.edu/courses/CLAS/307\)](http://bulletin.unl.edu/courses/CLAS/307)

Crosslisted as HIST 307/807, RELG 307

Pre-1800 content.

Life, literature, thought, and institutions of the Christian movement from Jesus to Constantine. A critical, historical approach to the sources in English translation and how they reflect the interaction of Christian, Jew, and pagan in late antiquity. Includes the historical Jesus vis-a-vis the Christ of Faith, the impact of Paul's thought, the formation of Christian dogma, methods of interpreting canonical and extra-canonical Christian literature, the problem of heresy and orthodoxy.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

CLAS

409/809

Religion of Late Western Antiquity

[LINK \(http://bulletin.unl.edu/courses/CLAS/409\)](http://bulletin.unl.edu/courses/CLAS/409)

Crosslisted as HIST 409/809, RELG 409

Pre-1800 content.

Examination of the religious institutions, philosophies, and lifeways of the Hellenistic Age from Alexander to Constantine. Includes civic religion of Greece and Rome, popular religion, mystery cults, Judaism, Christianity, popular and school philosophies (Platonism, Aristotelianism, Epicureanism, Cynicism, Stoicism), Gnosticism. History, interrelationships, emerging world view of these movements.

Credit Hours:	2-3
Course Format:	Lecture
Course Delivery:	Classroom

ECON

457/857

19th Century United States Economic History

[LINK \(http://bulletin.unl.edu/courses/ECON/457\)](http://bulletin.unl.edu/courses/ECON/457)

Crosslisted as HIST 457/857

Prereqs:
ECON 211 (<http://bulletin.unl.edu/courses/ECON/211>) and ECON 212

Credit Hours:	3
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<http://bulletin.unl.edu/courses/ECON/212>), or [ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210).

Transformation of the United States economy from an agrarian to an industrial society and the impact of that transformation on people's lives and livelihoods. The economics of slavery, the impact of the railroads, immigration, and the collective response of business and labor to industrialization.

Course Delivery: Classroom

Groups: Economic History

ECON **20th Century United States Economic History**

[LINK \(http://bulletin.unl.edu/courses/ECON/458\)](http://bulletin.unl.edu/courses/ECON/458)

458/858

Crosslisted as *HIST 458/858*

Prereqs:

[ECON 211 \(http://bulletin.unl.edu/courses/ECON/211\)](http://bulletin.unl.edu/courses/ECON/211) and [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212), or [ECON 210 \(http://bulletin.unl.edu/courses/ECON/210\)](http://bulletin.unl.edu/courses/ECON/210).

Transformation of the United States economy in the twentieth century. Attention to the continued consolidation of the business enterprise, business cycle episodes including the Great Depression of the 1930s, organized labor, and the role of government in managing and coping with this transformation in economic life.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Economic History

ENGL **Interdisciplinary Seminar in Nineteenth-Century Studies**

[LINK \(http://bulletin.unl.edu/courses/ENGL/918\)](http://bulletin.unl.edu/courses/ENGL/918)

918

Crosslisted as *HIST 918, MODL 918*

Invention of the nineteenth century, gender, colonialism, class, realism science and technology.

Credit Hours: 3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

ENGL **Interdisciplinary Approaches to the Nineteenth Century**

[LINK \(http://bulletin.unl.edu/courses/ENGL/919\)](http://bulletin.unl.edu/courses/ENGL/919)

919

Crosslisted as *HIST 919, MODL 919*

Introduction to the nineteenth century in North America (focusing on the US), Great Britain, and Europe (focusing on France, Germany, Russia, and Spain), organized through themes such as constructions of gender and sexuality, democracy in the nation-state, and challenges to religion.

Credit Hours: 3

Campus:

Course Delivery: Classroom

GPSP **Seminar in Great Plains Studies**

[LINK \(http://bulletin.unl.edu/courses/GPSP/400\)](http://bulletin.unl.edu/courses/GPSP/400)

400/800

Crosslisted as *HIST 400/800, GEOG 400/800*

Prereqs:

A course in the study of the Great Plains.

GPSP/GEOG/HIST 400 (http://bulletin.unl.edu/courses/HIST/400) is required for a GPSP major or minor.

Topic varies.

Credit Hours: 3

Course Delivery: Classroom

HIST **United States Military History, 1607-1917**

[LINK \(http://bulletin.unl.edu/courses/HIST/303\)](http://bulletin.unl.edu/courses/HIST/303)

303/803

Prereqs:

Sophomore standing or permission.

This course satisfies the military history requirement of the advanced program.

Credit Hours: 3

Course Delivery: Classroom

Groups: United States or Canadian History

Significance of military affairs in the context of American political, economic, and social history from the formation of the earliest colonial militias to the pre-WWI preparedness movement. Discusses all of the major wars of this period but also emphasizes such themes as the professionalization of the officer corps, the relationship between war and technology, and civil-military relations.

HIST

304/804

United States Military History Since 1917

[LINK \(http://bulletin.unl.edu/courses/HIST/304\)](http://bulletin.unl.edu/courses/HIST/304)

Prereqs:
Sophomore standing or permission. This course satisfies the military history requirement of the advanced program.

Significance of military affairs in the context of American political, economic, and social history from America's entry into WWI to the present. Discusses all of the major wars of this period but also emphasizes such themes as the professionalization of the officer corps, the relationship between war and technology (especially nuclear weapons), and civil-military relations.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST

328/828

History of Germany: 1914 to Present

[LINK \(http://bulletin.unl.edu/courses/HIST/328\)](http://bulletin.unl.edu/courses/HIST/328)

Prereqs:
Sophomore standing or permission.

Conflict and consensus in the history of Germany from World War I to the present. The Nazi dictatorship in European context, World War II and the Holocaust, the two Germanies from 1945, changes in 1989 and German unification, and developments in Germany and Europe since 9/11.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	European History

HIST

338/838

War and Peace in Europe: 1914 to the Present

[LINK \(http://bulletin.unl.edu/courses/HIST/338\)](http://bulletin.unl.edu/courses/HIST/338)

Prereqs:
Sophomore standing or permission.

Survey of the diplomatic and military history of Europe from World War I to the present. Includes the strategy, tactics, and diplomacy of the two world wars; international relations in the years between the wars; the emergence of a new postwar Europe; and Europe's involvement in the rivalry between the superpowers since 1945.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History

HIST

339/839

The Holocaust

Crosslisted as *JUDS 339*

[LINK \(http://bulletin.unl.edu/courses/HIST/339\)](http://bulletin.unl.edu/courses/HIST/339)

Prereqs:
Sophomore standing.

Europe-wide programs of persecution and genocide carried out under the auspices of the Nazi-German regime between 1933 and 1945. Focuses primarily on the Jewish dimension of the Holocaust, but also examines Nazi policies targeted against Poles, Gypsies, homosexuals, disabled Germans, and other groups. Events analyzed from the perspectives of victims, perpetrators, and bystanders.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	European History

HIST

340/840

American Legal History

[LINK \(http://bulletin.unl.edu/courses/HIST/340\)](http://bulletin.unl.edu/courses/HIST/340)

Prereqs:
Sophomore standing or permission.

Evolution of a distinct American legal culture from colonial times to the present, emphasizing the history of the components of the legal system, the judiciary, the bar, litigants, law enforcement and corrections, and legal doctrine.

Credit Hours: 3

Course Delivery: Classroom

Groups: United States or Canadian History

HIST **American Urban and Social History I**

343/843

LINK (<http://bulletin.unl.edu/courses/HIST/343>)

Prereqs:
Sophomore standing or permission.

Survey and analysis of the impact of economic development and urbanization on the organization and character of American society from colonial times through the civil war. Analyzes the rise and transformation of the southern planter class and the slavery system which supported it; the development and change in character of both farmers and the urban working class; and the evolution of the northern, urban, middle class and its impact on all aspects of American life before the Civil War.

Credit Hours: 3

Course Delivery: Classroom

ACE Outcomes: 5?

Groups: United States or Canadian History

HIST **American Urban and Social History II**

344/844

LINK (<http://bulletin.unl.edu/courses/HIST/344>)

Prereqs:
Sophomore standing or permission.

Survey and analysis of the impact of metropolitan development, mass-oriented industrialization and economic development, and the modernization of values, ideas, and mores on American society between the Civil War and the recent past. Includes the breakdown of old criteria of class or group definitions and their replacement by newer, more impersonal, economic categories. Attention to the declining role of the farmer in American life, the rise and fall of elite "society", and the further development of mass-oriented middle and working classes after World War II.

Credit Hours: 3

Course Delivery: Classroom

Groups: United States or Canadian History

HIST **American West to 1900**

351/851

LINK (<http://bulletin.unl.edu/courses/HIST/351>)

Prereqs:
Sophomore standing.

History of indigenous peoples of the West. Euro-American, African American, Asian, and Latina and/or Latino settlements. The changing environment. Gender issues. Economic activities: fur trading, mining, ranching, farming, and lumbering.

Credit Hours: 3

Course Delivery: Classroom

Groups: United States or Canadian History

HIST **American West Since 1900**

352/852

LINK (<http://bulletin.unl.edu/courses/HIST/352>)

Prereqs:
Sophomore standing.

History of the American West since 1900. History of race, class, and gender; urbanization and industrialization; political movements; population growth, new immigrations, and urban expansion; modern economic trends and environmental change; and the role of the federal government in the American West.

Credit Hours: 3

Course Delivery: Classroom

Groups: United States or Canadian History

HIST

From Progressivism to the Great Crash[LINK \(http://bulletin.unl.edu/courses/HIST/353\)](http://bulletin.unl.edu/courses/HIST/353)**353/853****Prereqs:**
Sophomore standing or permission.

The Progressive Movement, Theodore Roosevelt and the New Nationalism, Wilson and the New Freedom, World War I, the Return to Normalcy, the Jazz Age, and the Great Crash.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST

The Era of Franklin D. Roosevelt[LINK \(http://bulletin.unl.edu/courses/HIST/354\)](http://bulletin.unl.edu/courses/HIST/354)**354/854****Prereqs:**
Sophomore standing or permission.

The Great Depression, Franklin D. Roosevelt and the New Deal, the road to Pearl Harbor, and World War II.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST

Post-World War II America[LINK \(http://bulletin.unl.edu/courses/HIST/355\)](http://bulletin.unl.edu/courses/HIST/355)**355/855****Prereqs:**
Sophomore standing or permission.

Surveys the major developments in domestic politics, in foreign affairs, and the economic, social, and cultural spheres from the end of World War II to the present.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST

Revolutions in Twentieth-Century Latin America[LINK \(http://bulletin.unl.edu/courses/HIST/372\)](http://bulletin.unl.edu/courses/HIST/372)**372/872****Prereqs:**
Sophomore standing or permission.

Examines revolutionary movements from the Revolution of 1910 in Mexico to the more recent upheavals in Central America. Aside from case studies of selected countries, topical subjects covered, such as militarism, communism, nationalism, anti-Americanism, religion and the role of the Church, land, and unequal distribution of wealth.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST

History of Premodern Japan[LINK \(http://bulletin.unl.edu/courses/HIST/381\)](http://bulletin.unl.edu/courses/HIST/381)**381/881****Prereqs:**
Sophomore standing or permission*Pre-1800 content.*

Analysis of premodern Japanese society with emphasis on institutional and cultural developments.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History, Pre-1800

HIST

History of Modern Japan[LINK \(http://bulletin.unl.edu/courses/HIST/382\)](http://bulletin.unl.edu/courses/HIST/382)**382/882**

Prereqs:
Sophomore standing or permission.

Establishment of a modern state; foundations of economic power; liberalism and oligarchical rule; militarism; post-World War II developments.

Credit Hours: 3

Course Delivery: Classroom

Groups: Latin American, Asian, Middle Eastern or African History

HIST **History of Premodern China**

383/883

[LINK \(http://bulletin.unl.edu/courses/HIST/383\)](http://bulletin.unl.edu/courses/HIST/383)

Prereqs:
Sophomore standing or permission.

Pre-1800 content.

History of China to 1800 with emphasis on intellectual history (Confucianism, Taoism, Buddhism, Neo-Confucianism) and the political, economic, and social development of the Chinese empire (221 BC to 1800 AD).

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

Groups: Latin American, Asian, Middle Eastern or African History, Pre-1800

HIST **Sexuality in Nineteenth and Twentieth Century America**

402/802

Crosslisted as *WMNS 402/802*

[LINK \(http://bulletin.unl.edu/courses/HIST/402\)](http://bulletin.unl.edu/courses/HIST/402)

Sexual practices and ideologies in American history from the 1800's to the present.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: United States or Canadian History

HIST **Indians in American Popular Culture**

411/811

Crosslisted as *ETHN 411*

[LINK \(http://bulletin.unl.edu/courses/HIST/411\)](http://bulletin.unl.edu/courses/HIST/411)

Prereqs:
Junior standing.

Images of Native Americans in American popular culture. Dominant society's creation of images of Indians to serve societal needs. Reasons behind these creations, what purposes they served, and the enormous effect on white-Native relations. Covers art, literature, fiction, film, television, and sports "mascots".

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: United States or Canadian History

HIST **Democracy and Tyranny in Classical Athens**

412/812

Crosslisted as *CLAS 412*

[LINK \(http://bulletin.unl.edu/courses/HIST/412\)](http://bulletin.unl.edu/courses/HIST/412)

Prereqs:
Junior standing or permission.

Pre-1800 content.

Development and influence of the Greek city-states, focusing on the establishment and transformation of the Athenian democracy in the 6th and 5th centuries BCE from popular sovereignty to the rule of written law. Including the three periods of tyranny, reaction to the Persian Invasions, and the impact of the Peloponnesian War.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Pre-1800, European History

HIST **Medieval Culture**

414/814

[LINK \(http://bulletin.unl.edu/courses/HIST/414\)](http://bulletin.unl.edu/courses/HIST/414)

Prereqs:
Junior standing or permission.

Pre-1800 content.

Historical context of changes in religion, literature, philosophy, and the arts, 400-1450.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST **The Roman Revolution, 133 BC-68 AD**

417/817

Crosslisted as *CLAS 417*

[LINK \(http://bulletin.unl.edu/courses/HIST/417\)](http://bulletin.unl.edu/courses/HIST/417)

Prereqs:
Junior standing or permission.

Pre-1800 content.

Critical period in Roman history when the republic was transformed into the rule by one man: Political and social functioning of the republic, causes for change, and factors influencing its final shape. Careers of the Gracchi, Marius, Sulla, Pompey, Caesar, Anthony, and Augustus.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Pre-1800, European History

HIST **Augustan Rome**

418/818

Crosslisted as *CLAS 418*

[LINK \(http://bulletin.unl.edu/courses/HIST/418\)](http://bulletin.unl.edu/courses/HIST/418)

Prereqs:
[HIST 100 \(http://bulletin.unl.edu/courses/HIST/100\)](http://bulletin.unl.edu/courses/HIST/100) / [100H \(http://bulletin.unl.edu/courses/HIST/100H\)](http://bulletin.unl.edu/courses/HIST/100H) or [210 \(http://bulletin.unl.edu/courses/HIST/210\)](http://bulletin.unl.edu/courses/HIST/210).

Augustus' constitutional transformation of Rome, and enforcement of a national identity and values through religion, social legislation, provincial governance policies, and patronage of public works, display, and literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST **The Italian Renaissance**

420/820

[LINK \(http://bulletin.unl.edu/courses/HIST/420\)](http://bulletin.unl.edu/courses/HIST/420)

Prereqs:
Junior standing or permission.

Pre-1800 content.

Examines the intellectual and artistic achievements of the Italian Renaissance, relating them to the political developments and social changes which occurred throughout the Italian peninsula between ca. 1300-1550 and highlighting those elements which would influence the evolution of European culture. Emphasis on the development of humanism and its role in the transition from medieval to modern values.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST **The German Reformation**

421/821

Crosslisted as *RELG 421*

[LINK \(http://bulletin.unl.edu/courses/HIST/421\)](http://bulletin.unl.edu/courses/HIST/421)

Prereqs:
Junior standing.

Pre-1800 content.

The cultural and intellectual developments of the German Reformation against its social background. The religious and political events of the first half of the sixteenth century. Transition from medieval to modern Christianity. The transmission and revolutionary nature of evangelical doctrines. The gradual institutionalization of the new churches.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST

The Scientific Revolution

[LINK \(http://bulletin.unl.edu/courses/HIST/422\)](http://bulletin.unl.edu/courses/HIST/422)

422/822

Prereqs:
Junior standing or permission.

Pre-1800 content.

Emergence of modern science in the sixteenth and seventeenth centuries and the impact of this new intellectual force on the social, political, and scientific thought of the Enlightenment. Philosophical, religious, and social background to the Scientific Revolution examined closely, and the institutional bases of the new science considered. Attention to the role of mysticism and alchemy in the rise of modern science and to the relationship between science and religion which developed during the period of the Scientific Revolution. Personalities and careers of some of the great scientists of the age—Copernicus, Galileo, Newton—used to illuminate these and other issues.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST

The European Enlightenment

[LINK \(http://bulletin.unl.edu/courses/HIST/423\)](http://bulletin.unl.edu/courses/HIST/423)

423/823

Prereqs:
Junior standing or permission.

Pre-1800 content.

Survey of European intellectual history from Locke and Bayle to Kant and Condorcet. Attempts to arrive at a definition of the Enlightenment through examination of both the writings of the philosophers and through secondary literature. Seeks to comprehend the Enlightenment in its social and political as well as its intellectual content.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST

European Social and Cultural History Since 1815

[LINK \(http://bulletin.unl.edu/courses/HIST/424\)](http://bulletin.unl.edu/courses/HIST/424)

424/824

Prereqs:
Junior standing or permission.

European society and culture from the Enlightenment to the present with emphasis on institutions, ideas, and artistic expression.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	European History

HIST

History of Fascism in Europe

[LINK \(http://bulletin.unl.edu/courses/HIST/429\)](http://bulletin.unl.edu/courses/HIST/429)

429/829

Prereqs:
Junior standing or permission.

Comparative study of the rise of fascism in Europe during the twenties; the drift to totalitarianism and the transition to dictatorship. Evolution of domestic and foreign policy to 1945.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	European History

HIST

Early European History Through Biography

[LINK \(http://bulletin.unl.edu/courses/HIST/430\)](http://bulletin.unl.edu/courses/HIST/430)

430/830

Prereqs:
Junior standing or permission

Pre-1800 content.

Individuals from late medieval/early modern Europe, such as Joan of Arc, Henry V, and Eleanor of Aquitaine. Examines how history can be used to

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-

serve social, cultural, and political needs, and the difficulties of determining historic truth about a person or event.

1800

HIST Medieval England

431/831

[LINK \(http://bulletin.unl.edu/courses/HIST/431\)](http://bulletin.unl.edu/courses/HIST/431)

Prereqs:
Junior standing or permission

Pre-1800 content.

Political, social, economic, institutional, and intellectual history of England from the Roman invasions through the accession of the Tudor dynasty in 1485.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST England: Reformation to Revolution, 1530–1660

432/832

[LINK \(http://bulletin.unl.edu/courses/HIST/432\)](http://bulletin.unl.edu/courses/HIST/432)

Prereqs:
Junior standing or permission.

Pre-1800 content.

History of English society, politics, and culture from the time of Henry VIII through that of Elizabeth I, Shakespeare, Donne, Charles I, Cromwell, and Milton.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST Palestine and the Arab–Israeli Conflict

434/834

Crosslisted as *JUDS 434*

[LINK \(http://bulletin.unl.edu/courses/HIST/434\)](http://bulletin.unl.edu/courses/HIST/434)

Prereqs:
Junior standing.

Traces the history of the Arab–Israeli conflict from the 19th century up to the present. Explores the role of ideology, political actors, social history, economic and infrastructural problems, and regional and international interaction, as well as prospects for peace in the 21st century. Examines the related historiographical debates, especially those focusing on the Arab–Israeli Wars of 1948 and 1967.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST Saints, Witches, and Madwomen

436/836

Crosslisted as *WMNS 436/836*

[LINK \(http://bulletin.unl.edu/courses/HIST/436\)](http://bulletin.unl.edu/courses/HIST/436)

Prereqs:
Junior standing or permission.

Pre-1800 content.

Image of the madwoman throughout European and American history. Emphasis on how women on the margins have been labelled in different periods as saintly, as witches, or as insane.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST Seminar in U.S. Women's and Gender History

441/841

Crosslisted as *WMNS 441/841*

[LINK \(http://bulletin.unl.edu/courses/HIST/441\)](http://bulletin.unl.edu/courses/HIST/441)

In–depth, advanced thematic seminar that cultivates historical research and writing skills.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Groups: United States or
Canadian History

HIST

Antebellum America 1800–1850

[LINK \(http://bulletin.unl.edu/courses/HIST/442\)](http://bulletin.unl.edu/courses/HIST/442)

442/842

Prereqs:
Junior standing or permission.

American life during the first half of the nineteenth century, with special stress upon the nature of political processes, the many movements for the reform of society, the development of a national economy, and the rise of sectional conflict.

Credit Hours: 3

Course Delivery: Classroom

Groups: United States or
Canadian History

HIST

The American Civil War and Reconstruction

[LINK \(http://bulletin.unl.edu/courses/HIST/445\)](http://bulletin.unl.edu/courses/HIST/445)

445/845

Prereqs:
Junior standing or permission.

Development of the sectional crisis, war and its impact on American institutions, reconstruction and reunion, from 1850 to 1877.

Credit Hours: 3

Course Delivery: Classroom

Groups: United States or
Canadian History

HIST

America in the "Gilded Age"

[LINK \(http://bulletin.unl.edu/courses/HIST/446\)](http://bulletin.unl.edu/courses/HIST/446)

446/846

Prereqs:
Junior standing or permission.

Sectional adjustment, national politics, the "Gilded Age," economic growth, and the revival of imperialism in the period 1877 to 1901.

Credit Hours: 3

Course Delivery: Classroom

Groups: United States or
Canadian History

HIST

Women and Gender in African Societies

[LINK \(http://bulletin.unl.edu/courses/HIST/459\)](http://bulletin.unl.edu/courses/HIST/459)

459/859

Crosslisted as *ETHN 459, WMNS 459/859*

Explores how the contemporary women's movement has emerged within Africa and its relationship to social change.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Latin American,
Asian, Middle
Eastern or
African History

HIST

The Civil Rights Movement

[LINK \(http://bulletin.unl.edu/courses/HIST/460\)](http://bulletin.unl.edu/courses/HIST/460)

460/860

Crosslisted as *ETHN 460*

Prereqs:
Junior standing.

Survey and analysis of the origins, contours, activities, ideas, movement centers, personalities, and legacies of the Civil Rights and Black Power movements in the U.S. A. from the 1950's through the 1970's. The roles of the African-American masses, college and high school students, and women. The points of conflict and cooperation between African-American and mainstream American society.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

Groups: United States or
Canadian History

HIST

Recent Russia[LINK \(http://bulletin.unl.edu/courses/HIST/462\)](http://bulletin.unl.edu/courses/HIST/462)**462/862****Prereqs:**
Junior standing or permission.

Fifty years of effort at implementing the mandate of the so-called "October Revolution" both domestically and in foreign affairs. The Soviet Union today.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History

HIST

Indigenous Peoples of Latin America[LINK \(http://bulletin.unl.edu/courses/HIST/463\)](http://bulletin.unl.edu/courses/HIST/463)**463/863**Crosslisted as *ETHN 463*, *LAMS 463*

Includes Indian politics, ideologies about Latin American indigenous peoples, global issues, and inter-ethnic relationships in Latin America.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HIST

Native American History: Selected Topics[LINK \(http://bulletin.unl.edu/courses/HIST/464\)](http://bulletin.unl.edu/courses/HIST/464)**464/864**Crosslisted as *ETHN 464***Prereqs:**
Junior standing.

Issues in Native American History. Topics may include: Native Americans and the environment; Native Americans in the 19th or 20th century; Native Americans and federal Indian policy; Native Americans and gender; and Native Americans of regions other than the Great Plains.

Credit Hours:	3
Max credits per degree:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST

History of Plains Indians[LINK \(http://bulletin.unl.edu/courses/HIST/465\)](http://bulletin.unl.edu/courses/HIST/465)**465/865**Crosslisted as *ETHN 465***Prereqs:**
Junior standing or permission.

In-depth study of the history and culture of Native Americans of the Great Plains from earliest times through the twentieth century, stressing the history of migration, religion, diplomacy, politics, and society. All Indian nations of the Great Plains considered.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST

Early Modern China[LINK \(http://bulletin.unl.edu/courses/HIST/466\)](http://bulletin.unl.edu/courses/HIST/466)**466/866****Prereqs:**
Junior standing.

China during the last dynasty, the Qing, 1644 to 1911. Conquest and unification of China by the Manchus. Role of Confucianism in Chinese society. The growth of population during the 18th century. Rise of the opium trade. The Opium War. The Taiping Rebellion and reform efforts.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST

History of China in the 20th Century[LINK \(http://bulletin.unl.edu/courses/HIST/467\)](http://bulletin.unl.edu/courses/HIST/467)**467/867****Prereqs:**

Credit Hours:	3
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Junior standing.

Collapse of the old Confucian Imperial system, Boxer Rebellion, 1922 Revolution, warlordism, rise of Communism, the Sino-Japanese war (1937-1945), Communist Revolution and Chairman Mao, Cultural Revolution, and Deng Ziaoping's reforms.

Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST **Cultural History of Native America**

468/868

Crosslisted as *ETHN 468*

[LINK \(http://bulletin.unl.edu/courses/HIST/468\)](http://bulletin.unl.edu/courses/HIST/468)

Prereqs:
Junior standing.

Cultures of the indigenous peoples of the United States in an historical context. World view, language, spiritual beliefs, kinship organization, gender roles, music, dance, and art. Historical causes and effects of the changing of Native cultures over time. Contrasts between Native American oral history and Western methods.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST **Global Environmental History**

469/869

[LINK \(http://bulletin.unl.edu/courses/HIST/469\)](http://bulletin.unl.edu/courses/HIST/469)

Prereqs:
Junior standing.

Past interactions among societies and nature in a comparative world perspective. Indigenous peoples' resource management; ecological impacts of colonization; how political economies shape resource use; changing ideas about nature; and the historic roots of current environmental problems and possible solutions.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST **Digital History**

470/870

[LINK \(http://bulletin.unl.edu/courses/HIST/470\)](http://bulletin.unl.edu/courses/HIST/470)

Prereqs:
Junior standing.

Analysis of the theory, methods, and readings in humanities computing and digital history.

Credit Hours:	3
Max credits per degree:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Additional History Courses

HIST **African Americans in the Jazz Age**

474/874

Crosslisted as *ETHN 474*

[LINK \(http://bulletin.unl.edu/courses/HIST/474\)](http://bulletin.unl.edu/courses/HIST/474)

Prereqs:
Junior standing. A basic understanding of United States history is recommended.

Race relations and African American experience from the 1910s through WW II. Jim Crow, the Great Migration, WW I, "The New Negro," Harlem Renaissance, jazz/blues/gospel music, political radicalism, the Great Depression, and WW II.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST **Gender and Sexuality in Latin America**

476A/876A

Crosslisted as *ETHN 476A, WMNS 476A/876A*

[LINK \(http://bulletin.unl.edu/courses/HIST/476A\)](http://bulletin.unl.edu/courses/HIST/476A)

Prereqs:
Junior standing.

Experience of femininity and masculinity compared according to time and place, revealing the intimate connections with nation, modernity, race, and ethnicity.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HIST **Race in Modern Latin America**

LINK (<http://bulletin.unl.edu/courses/HIST/476B>)

476B/876B

Crosslisted as *ETHN 476B*

Prereqs:
Junior standing.

The experience of race and ethnicity in the 20th and 21st centuries compared according to time and place, revealing the intimate connections with nation and modernity.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HIST **Indigenous Peoples of the World**

LINK (<http://bulletin.unl.edu/courses/HIST/477>)

477/877

Crosslisted as *ETHN 477*

Prereqs:
Junior standing.

Indigenous peoples worldwide and current issues concerning them. Tribal sovereignty, territorial conflicts, globalization, ecosystem destruction, human rights, and the World Indigenous Movement.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST **The Social and Economic History of China Since the Late Ming Era**

LINK (<http://bulletin.unl.edu/courses/HIST/480>)

480/880

Prereqs:
Junior standing or permission; HIST 181 (<http://bulletin.unl.edu/courses/HIST/181>) or **281** (<http://bulletin.unl.edu/courses/HIST/281>) or **282** (<http://bulletin.unl.edu/courses/HIST/282>) or **383** (<http://bulletin.unl.edu/courses/HIST/383>) or **384** (<http://bulletin.unl.edu/courses/HIST/384>); or permission.

Analysis of the major social and economic changes in China during the previous six centuries. Includes the rapid growth of China's population, changes in family structure and peasant life, the development of China's commerce, China's relationship with the world economy, popular religion in China, and the social and economic transformation of China during the communist era.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST **History of South Africa**

LINK (<http://bulletin.unl.edu/courses/HIST/486>)

486/886

Crosslisted as *ETHN 486*

Prereqs:
Junior standing.

Survey of the history of South Africa from the Stone Age to the evolution of the political, economic, legal and social framework of apartheid, and the recent efforts to achieve political accommodation.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST **Topics in World History**

LINK (<http://bulletin.unl.edu/courses/HIST/490>)

490/890

Prereqs:
Junior standing.

Topic varies.

Credit Hours:	3
Max credits per degree:	15
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Latin American, Asian, Middle Eastern or African History

HIST
894

Directed Readings

[LINK \(http://bulletin.unl.edu/courses/HIST/894\)](http://bulletin.unl.edu/courses/HIST/894)

Prereqs:
Permission

Credit Hours:	1-24
Max credits per degree:	24
Campus:	
Course Delivery:	Classroom

HIST
895

Internship in Digital Humanities

Crosslisted as ENGL 895E, MODL 895

[LINK \(http://bulletin.unl.edu/courses/HIST/895\)](http://bulletin.unl.edu/courses/HIST/895)

Active participation in an ongoing digital humanities project in the Center for Digital Research in the Humanities, including weekly meetings designed to build technical and project management skills.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

HIST
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/HIST/899\)](http://bulletin.unl.edu/courses/HIST/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

HIST
900

Introduction to Historical Study

[LINK \(http://bulletin.unl.edu/courses/HIST/900\)](http://bulletin.unl.edu/courses/HIST/900)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

HIST
901

Readings and Problems in Ancient History

[LINK \(http://bulletin.unl.edu/courses/HIST/901\)](http://bulletin.unl.edu/courses/HIST/901)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

HIST
911

Readings and Problems in Medieval History

[LINK \(http://bulletin.unl.edu/courses/HIST/911\)](http://bulletin.unl.edu/courses/HIST/911)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

HIST
912

Seminar in Medieval History

[LINK \(http://bulletin.unl.edu/courses/HIST/912\)](http://bulletin.unl.edu/courses/HIST/912)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

HIST
921

Readings and Problems in English History

[LINK \(http://bulletin.unl.edu/courses/HIST/921\)](http://bulletin.unl.edu/courses/HIST/921)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

HIST
922

Seminar in English History

[LINK \(http://bulletin.unl.edu/courses/HIST/922\)](http://bulletin.unl.edu/courses/HIST/922)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

HIST
928

Readings and Problems in Military History

[LINK \(http://bulletin.unl.edu/courses/HIST/928\)](http://bulletin.unl.edu/courses/HIST/928)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

HIST
929

Research Seminar in Military History

[LINK \(http://bulletin.unl.edu/courses/HIST/929\)](http://bulletin.unl.edu/courses/HIST/929)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

HIST
931

Readings and Problems in Early Modern European History

[LINK \(http://bulletin.unl.edu/courses/HIST/931\)](http://bulletin.unl.edu/courses/HIST/931)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

HIST
932

Seminar in Early Modern European History

[LINK \(http://bulletin.unl.edu/courses/HIST/932\)](http://bulletin.unl.edu/courses/HIST/932)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

HIST
933

Readings and Problems in Recent European History

[LINK \(http://bulletin.unl.edu/courses/HIST/933\)](http://bulletin.unl.edu/courses/HIST/933)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

HIST
934

Seminar in Recent European History

[LINK \(http://bulletin.unl.edu/courses/HIST/934\)](http://bulletin.unl.edu/courses/HIST/934)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

HIST
941

Readings and Problems in American History Before 1877

[LINK \(http://bulletin.unl.edu/courses/HIST/941\)](http://bulletin.unl.edu/courses/HIST/941)

Credit Hours:	1-24
Max credits per degree:	24
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

HIST
942

Seminar in American History

[LINK \(http://bulletin.unl.edu/courses/HIST/942\)](http://bulletin.unl.edu/courses/HIST/942)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

HIST
951

History of Women and Gender

Crosslisted as *WMNS 951*

[LINK \(http://bulletin.unl.edu/courses/HIST/951\)](http://bulletin.unl.edu/courses/HIST/951)

A comparative approach, offering readings on a central theme from a variety of periods and/or areas. Themes vary.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

HIST
961

Readings and Problems in 20th Century International History

[LINK \(http://bulletin.unl.edu/courses/HIST/961\)](http://bulletin.unl.edu/courses/HIST/961)

20th century global history from the perspectives of both international relations and world history, with particular attention to politics, revolutions, economics, ideology, and culture.

Credit Hours:	3
Campus:	

HIST

970**Seminar in Digital History**[LINK \(http://bulletin.unl.edu/courses/HIST/970\)](http://bulletin.unl.edu/courses/HIST/970)

HIST 970 (<http://bulletin.unl.edu/courses/HIST/970>) is part of a suite of courses in the area of digital history.

Credit Hours: 3**Course Format:** Lecture 3**Campus:****Course Delivery:** Classroom

HIST

971**Readings and Problems in Latin American History**[LINK \(http://bulletin.unl.edu/courses/HIST/971\)](http://bulletin.unl.edu/courses/HIST/971)**Credit Hours:** 1-24**Campus:****Course Delivery:** Classroom

HIST

981**Readings and Problems in East Asian History**[LINK \(http://bulletin.unl.edu/courses/HIST/981\)](http://bulletin.unl.edu/courses/HIST/981)**Credit Hours:** 1-24**Campus:****Course Delivery:** Classroom

HIST

982**Seminar in East Asian History**[LINK \(http://bulletin.unl.edu/courses/HIST/982\)](http://bulletin.unl.edu/courses/HIST/982)**Credit Hours:** 3**Campus:****Course Delivery:** Classroom

HIST

990**Seminar in Special Problems of Teaching History**[LINK \(http://bulletin.unl.edu/courses/HIST/990\)](http://bulletin.unl.edu/courses/HIST/990)**Credit Hours:** 1-24**Campus:****Course Delivery:** Classroom

HIST

991**Readings and Problems in the History of the North American West**[LINK \(http://bulletin.unl.edu/courses/HIST/991\)](http://bulletin.unl.edu/courses/HIST/991)

History of the North American West. Past and present historiography; modern themes and methodologies; and topical and comparative historical treatments.

Credit Hours: 3**Max credits per degree:** 9**Campus:****Course Delivery:** Classroom

HIST

993**Press Internship**[LINK \(http://bulletin.unl.edu/courses/HIST/993\)](http://bulletin.unl.edu/courses/HIST/993)

Prereqs:
Permission of the Graduate Chair in History.

Work in HIST 993 (<http://bulletin.unl.edu/courses/HIST/993>) is to be supervised by the History Acquisitions editor at the University of Nebraska Press. HIST 993 (<http://bulletin.unl.edu/courses/HIST/993>) is Pass/No Pass only.

Internship at the University of Nebraska Press.

Credit Hours:	3
Max credits per degree:	6
Course Format:	Field
Campus:	
Course Delivery:	Classroom

HIST
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/HIST/999\)](http://bulletin.unl.edu/courses/HIST/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

POLS
466/866

Pro-seminar in International Relations I

[LINK \(http://bulletin.unl.edu/courses/POLS/466\)](http://bulletin.unl.edu/courses/POLS/466)

Crosslisted as HIST 479/879, SOCI 466/866, ANTH 479/879, GEOG 448/848, ECON 466/866, AECN 467

Prereqs:
Senior standing and permission.

Open to students with an interest in international relations.

Topic varies

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	International Relations

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/History). (<http://www.unl.edu/gradstudies/prospective/programs/History>)

Department Chair: William Thomas, Ph.D.

Graduate Committee Chair: Professor Thomas (Tim) Borstelmann

Admission to full graduate standing leading to the MA degree requires 26 hours of history at the undergraduate level and two college years or the equivalent of a foreign language. Applicants who do not meet these requirements may be admitted but must make good the deficiency before the MA degree is awarded.

All applicants for admission to graduate study in history and for financial assistance, fellowships, and assistantships must submit their scores on the verbal and quantitative portions of the Graduate Record Examination. The Graduate Committee also requires a written statement from candidates indicating their area of interest and why they wish to pursue graduate study in history, as well as a sample of their written work.

For those desiring a minor in history, courses will be arranged between the student and a member of the department.

Master of Arts Degree.

The candidate for the masters degree must show competency by a written comprehensive examination or oral examination covering the student's approved program of study.

Doctor of Philosophy Degree.

Research leading to the PhD degree is offered in the following general areas: North American history, European history, and comparative/ world history. Within these areas students may concentrate in the following fields: North America West, American Society and Culture, Indigenous Peoples, Military/Diplomatic/International History, Pre-Modern Europe, Modern Europe, German Studies, Comparative World History, and Women's History. The candidate for the doctoral degree also must show competence by passing written comprehensive examinations in their general area and in comparative world history. Facility in one foreign language is required. The supervisory committee may require (an) additional foreign language(s) and/or alternate research tool when it is particularly relevant to a student's chosen area of specialization.

Students should consult the Guide to Graduate Study in History for a complete statement of academic policies and student responsibilities in the history department's graduate program.

Specializations available for the MA and PhD degrees:

NOTE:

Students who enroll for graduate credit in courses cross listed with undergraduate courses must complete significant additional course requirements beyond those expected of students enrolling for undergraduate credit. These will be established by the instructor and will include more demanding criteria for evaluation, as well as, for example, additional research projects, readings, papers, etc.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/History). (<http://www.unl.edu/gradstudies/prospective/programs/History>)

Retrieved from "<http://bulletin.unl.edu/graduate/History> (<http://bulletin.unl.edu/graduate/History>)"
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Horticulture

Subject Areas

- [Horticulture \(HORT\) \(#HORT\)](#)
- [Turfgrass & Landscape Management \(TLMT\) \(#TLMT\)](#)

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Courses for HORT (HORT)

AGRO 426/826	Invasive Plants Crosslisted as <i>HORT 426/826, NRES 426/826</i>	LINK (http://bulletin.unl.edu/courses/AGRO/426)
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Prereqs:
[AGRO/HORT/SOIL 153 \(http://bulletin.unl.edu/courses/SOIL/153\)](http://bulletin.unl.edu/courses/SOIL/153); [BIOS 109 \(http://bulletin.unl.edu/courses/BIOS/109\)](http://bulletin.unl.edu/courses/BIOS/109).

Identification, biology and ecology of weedy and invasive plants. Principles of invasive plant management by preventative, cultural, biological, mechanical and chemical means using an adaptive management framework. Herbicide terminology and classification, plant-herbicide and soil-herbicide interactions, equipment calibration and dosage calculations.

Credit Hours:	3
Course Format:	Lecture 2, Lab 2
Course Delivery:	Classroom

AGRO 435/835	Agroecology Crosslisted as <i>HORT 435/835, NRES 435/835</i>	LINK (http://bulletin.unl.edu/courses/AGRO/435)
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Prereqs:
For AGRO/HORT/NRES 435: Senior standing or permission. For AGRO/NRES 835: 12 hrs biological or agricultural sciences or permission.

Capstone course. Team projects for developing communication skills and leadership skills.

Integration of principles of ecology, plant and animal sciences, crop protection, and rural landscape planning and management for sustainable agriculture. Includes natural and cultivated ecosystems, population and community ecology, nutrient cycling, pest management, hydrologic cycles, cropping and grazing systems, landscape ecology, biodiversity, and socioeconomic evaluation of systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO 436/836	Agroecosystems Analysis Crosslisted as <i>HORT 436/836</i>	LINK (http://bulletin.unl.edu/courses/AGRO/436)
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Prereqs:
Senior standing.

Cost of travel required. Summer travel course with multi-state faculty. Farm visits to Iowa, Minnesota and Nebraska.

Credit Hours:	3
Course Delivery:	Classroom

Identification of grain quality characteristics desired by livestock feeders, human food processors and industrial users, and methods used to measure these characteristics.

AGRO

439/839

Organic Farming and Food Systems

Crosslisted as *HORT 439/839*

[LINK \(http://bulletin.unl.edu/courses/AGRO/439\)](http://bulletin.unl.edu/courses/AGRO/439)

Prereqs:

For 439, 12 credits of agricultural or biological science, economics, or natural resources. For 839, enrolled in M.S. or Ph.D. program.

History of organic farming and horticultural systems, organic certification, nutrient and pest management in organic systems, planning organic enterprises including production and marketing, resilience of organic systems in ecological, economic, and social terms; future issues and potentials of organic food systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

441/841

Perennial Plant Function, Growth, and Development

Crosslisted as *HORT 441/841, RNGE 441*

[LINK \(http://bulletin.unl.edu/courses/AGRO/441\)](http://bulletin.unl.edu/courses/AGRO/441)

Prereqs:

AGRO 325 (<http://bulletin.unl.edu/courses/AGRO/325>) or equivalent.

Principles of crop physiology and developmental morphology in relation to function, growth, development, and survival of perennial forage, range, and turf plants. The relationship of physiology and morphological development on plant use and management.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

489/889

Urbanization of Rural Landscapes

Crosslisted as *HORT 489/889, CRPL 489/889*

[LINK \(http://bulletin.unl.edu/courses/AGRO/489\)](http://bulletin.unl.edu/courses/AGRO/489)

Prereqs:

Senior standing, graduate standing, or permission.

Development converts rural landscapes into housing, roads, malls, parks, and commercial uses. This process fragments landscapes and changes ecosystem functions, drives up land prices, and pushes agriculture into more marginal areas. This multi-disciplinary, experiential course guides students in learning about the urbanization process, the impacts on landscapes, people, and the community, and the choices that are available to informed citizens.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

810

Plant Molecular Biology

Crosslisted as *BIOS 810, BIOC 810, HORT 810*

[LINK \(http://bulletin.unl.edu/courses/AGRO/810\)](http://bulletin.unl.edu/courses/AGRO/810)

Prereqs:

AGRO 315 (<http://bulletin.unl.edu/courses/AGRO/315>) or BIOS 206 (<http://bulletin.unl.edu/courses/BIOS/206>); BIOC 831 (<http://bulletin.unl.edu/courses/BIOC/831>) or permission

Molecular genetic basis of biological function in higher plants. Genome organization, gene structure and function, regulation of gene expression, recombinant DNA, and genetic engineering principles. Material taken primarily from current literature.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO

821

Learning Biotechnology

Crosslisted as *HORT 821*

[LINK \(http://bulletin.unl.edu/courses/AGRO/821\)](http://bulletin.unl.edu/courses/AGRO/821)

Investigate biotechnology and its application in solving problems and

Credit Hours:	3
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connect biotechnology to basic science concepts in biology and chemistry. Integrate individually-designed biotechnology lessons into learning standards.

Course Format: Lecture 3

Course Delivery: Web

AGRO
822 Integrated Weed Management

Crosslisted as *HORT 822*

[LINK \(http://bulletin.unl.edu/courses/AGRO/822\)](http://bulletin.unl.edu/courses/AGRO/822)

Prereqs:
12 hrs AGRO and/or closely related HORT and/or BIOS

Principles and application of (IWM). Noxious and invasive weed species. Crops and weed control. Plant population shifts. Use of herbicides and the biologically effective dose. Critical period of weed control and weed threshold. Herbicide tolerant crops.

Credit Hours: 1

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

AGRO
825 Turfgrass Science and Culture

Crosslisted as *HORT 825*

[LINK \(http://bulletin.unl.edu/courses/AGRO/825\)](http://bulletin.unl.edu/courses/AGRO/825)

Prereqs:
9 hrs agricultural plant science and 3 hrs soil science

Offered fall semester of odd-numbered calendar years. Methods and principles of establishment and maintenance of turfgrasses. Climate adaptation; methods of identification and propagation; equipment; fertility and watering practices; insects; diseases; and weed control.

Credit Hours: 3

Course Format: Lab 2, Lecture 2

Campus:

Course Delivery: Classroom

AGRO
832 Learning Plant Science

Crosslisted as *HORT 832*

[LINK \(http://bulletin.unl.edu/courses/AGRO/832\)](http://bulletin.unl.edu/courses/AGRO/832)

The biology of plants grown for food, fiber, fuel and fun. Connect applied plant science to basic science concepts in biology and chemistry. Integrate individually-designed plant science lessons into learning standards.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Web

AGRO
907 Agricultural Climatology

Crosslisted as *METR 907, HORT 907, NRES 907*

[LINK \(http://bulletin.unl.edu/courses/AGRO/907\)](http://bulletin.unl.edu/courses/AGRO/907)

Prereqs:
[NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808); [STAT 801 \(http://bulletin.unl.edu/courses/STAT/801\)](http://bulletin.unl.edu/courses/STAT/801) or equivalent

Offered spring semester of odd-numbered calendar years. Analysis and use of climatological data as applied to agricultural activities and the use of climatological information to assist in decision making.

Credit Hours: 3

Course Format: Lab 2, Lecture 2

Campus:

Course Delivery: Classroom

AGRO
908 Solar Radiation Interactions at the Earth's Surface

Crosslisted as *METR 908, HORT 908, NRES 908*

[LINK \(http://bulletin.unl.edu/courses/AGRO/908\)](http://bulletin.unl.edu/courses/AGRO/908)

Prereqs:
[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208); [NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808) or equivalent or permission

Offered spring semester of even-numbered calendar years. Quantitative study of radiative transfer to the earth's surface and subsequent interactions of radiation with vegetative components and underlying surfaces. Applications of canopy radiative modeling and remote sensing techniques, particularly in understanding land-surface processes, are discussed.

Credit Hours: 3

Campus:

Course Delivery: Classroom

AGRO
909

Crop Responses to Environment

Crosslisted as *HORT 909*, *NRES 909*

[LINK \(http://bulletin.unl.edu/courses/AGRO/909\)](http://bulletin.unl.edu/courses/AGRO/909)

Prereqs:

[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208), [NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808), or equivalent or permission

Offered odd-numbered calendar years. Physiological and developmental aspects of hardiness and growth of crop plants as affected by light, temperature, wind, and water. Design, function, and limitations of controlled environment facilities in plant research.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AGRO
919

Plant Genetics

Crosslisted as *HORT 919*

[LINK \(http://bulletin.unl.edu/courses/AGRO/919\)](http://bulletin.unl.edu/courses/AGRO/919)

Prereqs:

[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315)

Discussions of genetic mechanisms and behavior, with emphasis on plants. Topics include allelism, nonallelic gene interactions, linkage and recombination, inheritance involving the cytoplasm, incompatibility, and mutation.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

AGRO
931

Population Genetics

Crosslisted as *ASCI 931*, *HORT 931*

[LINK \(http://bulletin.unl.edu/courses/AGRO/931\)](http://bulletin.unl.edu/courses/AGRO/931)

Prereqs:

[AGRO 315 \(http://bulletin.unl.edu/courses/AGRO/315\)](http://bulletin.unl.edu/courses/AGRO/315) and [STAT 801 \(http://bulletin.unl.edu/courses/STAT/801\)](http://bulletin.unl.edu/courses/STAT/801)

This course is a prerequisite for: [AGRO 932 \(http://bulletin.unl.edu/courses/AGRO/932\)](http://bulletin.unl.edu/courses/AGRO/932)

Structure of populations, forces affecting gene frequency and frequency of genotypes, continuous variation, population values and means, genotypic and environmental variances and covariances.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO
963

Genetics of Host-Parasite Interaction

Crosslisted as *BIOS 963*, *HORT 963*

[LINK \(http://bulletin.unl.edu/courses/AGRO/963\)](http://bulletin.unl.edu/courses/AGRO/963)

Prereqs:

[BIOS 206 \(http://bulletin.unl.edu/courses/BIOS/206\)](http://bulletin.unl.edu/courses/BIOS/206) or [820 \(http://bulletin.unl.edu/courses/BIOS/820\)](http://bulletin.unl.edu/courses/BIOS/820)

Recommended [BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312); *BIOS *864A* or **864B*; and [BIOC 837 \(http://bulletin.unl.edu/courses/BIOC/837\)](http://bulletin.unl.edu/courses/BIOC/837). Offered even-numbered calendar years.

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

AGRO
991

Seminar Presentation and Evaluation

Crosslisted as *HORT 991*

[LINK \(http://bulletin.unl.edu/courses/AGRO/991\)](http://bulletin.unl.edu/courses/AGRO/991)

[AGRO 991 \(http://bulletin.unl.edu/courses/AGRO/991\)](http://bulletin.unl.edu/courses/AGRO/991) is required for all MS students. Various topics in horticulture, agronomy or related subjects. Emphasis on techniques.

Credit Hours:	1
Max credits per degree:	2
Campus:	
Course Delivery:	Classroom

AGRO
992

General Seminar

Crosslisted as *HORT 950*, *NRES 950*

[LINK \(http://bulletin.unl.edu/courses/AGRO/992\)](http://bulletin.unl.edu/courses/AGRO/992)

Prereqs:
Permission

Expected of all horticulture graduate students and all agronomy PhD students; optional for agronomy MS students. Presentation of thesis or non-thesis topics in agronomy, horticulture or related subjects. For course description, see [AGRO 992 \(http://bulletin.unl.edu/courses/AGRO/992\)](http://bulletin.unl.edu/courses/AGRO/992).

Credit Hours:	1
Max credits per degree:	5
Campus:	
Course Delivery:	Classroom

ANTH
429A/829A

Food Security: A Global Perspective

Crosslisted as *HORT 429A/829A*, *AGRO 429A/829A*, *NRES 429A/829A*

[LINK \(http://bulletin.unl.edu/courses/ANTH/429A\)](http://bulletin.unl.edu/courses/ANTH/429A)

Prereqs:
Junior standing

Overview of the technical and sociocultural dimensions of global food insecurity.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Additional Anthropology Courses

ARCH
568/868

Planting Design

Crosslisted as *HORT 341*

[LINK \(http://bulletin.unl.edu/courses/ARCH/568\)](http://bulletin.unl.edu/courses/ARCH/568)

Prereqs:
[HORT 266 \(http://bulletin.unl.edu/courses/HORT/266\)](http://bulletin.unl.edu/courses/HORT/266); [MATH 102 \(http://bulletin.unl.edu/courses/MATH/102\)](http://bulletin.unl.edu/courses/MATH/102); [MSYM 109 \(http://bulletin.unl.edu/courses/MSYM/109\)](http://bulletin.unl.edu/courses/MSYM/109) or [PHYS 141 \(http://bulletin.unl.edu/courses/PHYS/141\)](http://bulletin.unl.edu/courses/PHYS/141)

[SOIL 153 \(http://bulletin.unl.edu/courses/SOIL/153\)](http://bulletin.unl.edu/courses/SOIL/153) and [CNST 131 \(http://bulletin.unl.edu/courses/CNST/131\)](http://bulletin.unl.edu/courses/CNST/131) recommended. Lab exercises and field trips are required. Landscape construction, techniques and practices including site measurement and layout, topography, grading, cut-fill drainage and runoff calculations, topsoil protection; bioengineering and urban site erosion control; retaining walls; non-living landscape construction and design techniques as a part of the design process using problem-solving.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS
811

Plant Tissue Culture

Crosslisted as *HORT 811*, *NRES 811*

[LINK \(http://bulletin.unl.edu/courses/BIOS/811\)](http://bulletin.unl.edu/courses/BIOS/811)

Prereqs:
[BIOS 109 \(http://bulletin.unl.edu/courses/BIOS/109\)](http://bulletin.unl.edu/courses/BIOS/109); [AGRO 325 \(http://bulletin.unl.edu/courses/AGRO/325\)](http://bulletin.unl.edu/courses/AGRO/325) which includes [CHEM 109 \(http://bulletin.unl.edu/courses/CHEM/109\)](http://bulletin.unl.edu/courses/CHEM/109), [110 \(http://bulletin.unl.edu/courses/CHEM/110\)](http://bulletin.unl.edu/courses/CHEM/110); or equivalent

Survey of techniques used in plant cell, tissue and organ culture, including current research. Laboratory emphasizes practical manipulation of plant cells, tissues, and organs, including examples from woody and herbaceous plant species.

Credit Hours:	4
Course Format:	Lab 4, Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS
849

Woody Plant Growth and Development

Crosslisted as *HORT 849*, *NRES 849*

[LINK \(http://bulletin.unl.edu/courses/BIOS/849\)](http://bulletin.unl.edu/courses/BIOS/849)

Prereqs:
[CHEM 251 \(http://bulletin.unl.edu/courses/CHEM/251\)](http://bulletin.unl.edu/courses/CHEM/251) and [AGRO 325 \(http://bulletin.unl.edu/courses/AGRO/325\)](http://bulletin.unl.edu/courses/AGRO/325)

Offered fall semester of odd-numbered calendar years. Plant growth and development specifically of woody plants as viewed from an applied whole-plant physiological level. Plant growth regulators, structure and secondary growth characteristics of woody plants, juvenility, senescence, abscission

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

and dormancy.

HORT

424/824

Plant Nutrition and Nutrient Management

Crosslisted as *AGRO 424/824*

[LINK \(http://bulletin.unl.edu/courses/HORT/424\)](http://bulletin.unl.edu/courses/HORT/424)

Prereqs:

AGRO 325 (<http://bulletin.unl.edu/courses/AGRO/325>) or basic course in plant physiology. A course in organic chemistry or biochemistry recommended.

Offered spring semesters.

Macro and micro nutrient elements and their function in the growth and development of plants. Role of single elements. Interaction and/or balances between elements and nutrient deficiency and/or toxicity symptoms as they affect the physiology of the whole plant. Relationship between crop nutrition and production and/or environmental considerations (e.g. yield, drought, temperature, pests).

Credit Hours:	3
Course Format:	Lab 3
Course Delivery:	Classroom

HORT

467

Planting Design

Crosslisted as *ARCH 467/567/867, LARC 467*

[LINK \(http://bulletin.unl.edu/courses/HORT/467\)](http://bulletin.unl.edu/courses/HORT/467)

Prereqs:

HORT/LARC/NRES 212 (<http://bulletin.unl.edu/courses/NRES/212>); **ARCH 210** (<http://bulletin.unl.edu/courses/ARCH/210>) or **HORT/LARC 266** (<http://bulletin.unl.edu/courses/LARC/266>).

Design processes, principles, and elements as applied to the use of native and ornamental plant materials. Aesthetic, functional, and micro-climatic arrangements of plant material in parks, on commercial property, on home grounds, along roadways, and in urban open spaces. Develop a palette of plants and graphics for designs.

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Classroom

HORT

471

Vines, Wines and You

Crosslisted as *NUTR 471/871*

[LINK \(http://bulletin.unl.edu/courses/HORT/471\)](http://bulletin.unl.edu/courses/HORT/471)

Prereqs:

6 hrs science or equivalent experience; 21 years of age or older.

Proof of age is required.

Origin, botany, historical and cultural significance of the grapevine and related species. Principles and practices of vineyard establishment, management and processing of grape products, importance and/or scope of grape and wine industry; global and local significance. Culinary applications, health, environmental and safety-related issues, business and industry relations and experience.

Credit Hours:	3
Course Format:	Lecture, Lab
Course Delivery:	Classroom

HORT

488/488X/888

Business Management for Agricultural Enterprises

Crosslisted as *ENTR 488/888, EAEP 488/888, AGRO 488/888*

[LINK \(http://bulletin.unl.edu/courses/HORT/488\)](http://bulletin.unl.edu/courses/HORT/488)

HORT 488 (<http://bulletin.unl.edu/courses/HORT/488>)/*888* (<http://bulletin.unl.edu/courses/HORT/888>) requires the completion of a shadowing assignment and the analyses of case studies.

Research a specific agricultural enterprise. Develop and present a business plan using materials from the primary area of interest.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web
ACE Outcomes:	10 ⁷

HORT

498/898

Topics in Landscape Architecture

Crosslisted as *LARC 498/598*

[LINK \(http://bulletin.unl.edu/courses/HORT/498\)](http://bulletin.unl.edu/courses/HORT/498)

Prereqs:
Senior standing and permission.

Topical readings, theory, research, and practice in landscape architecture. Topics might include, but are not limited to, sustainable landscapes, visual and aesthetic assessment, restoration and reclamation, landscape management, recreational landscapes, art in the landscape, landscape ecology applied to design and planning, historical landscape preservation, and plant materials for the Great Plains landscape.

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Classroom

HORT
812 **Landscape Ecology**

Crosslisted as *NRES 810*

[LINK \(http://bulletin.unl.edu/courses/HORT/812\)](http://bulletin.unl.edu/courses/HORT/812)

Prereqs:
12 hrs biological sciences or related fields including BIOS 320
(<http://bulletin.unl.edu/courses/BIOS/320>) or permission

Spatial arrangements of ecosystems, the interaction among component ecosystems through the flow of energy, materials and organisms, and alteration of this structure through natural or anthropogenic forces.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

HORT
813 **Turfgrass and Landscape Weed Management**

Crosslisted as *TLMT 813, AGRO 813*

[LINK \(http://bulletin.unl.edu/courses/HORT/813\)](http://bulletin.unl.edu/courses/HORT/813)

Fundamental terminology associated with turfgrass and landscape weed management. Weed identification and the cultural practices and herbicide strategies to limit weed invasion and persistence.

Credit Hours:	1
Course Format:	Lab 2, Lecture 1
Campus:	
Course Delivery:	Classroom

HORT
840 **Turfgrass and Landscape Integrated Pest Management**

Crosslisted as *TLMT 840*

[LINK \(http://bulletin.unl.edu/courses/HORT/840\)](http://bulletin.unl.edu/courses/HORT/840)

TLMT/HORT 440 (<http://bulletin.unl.edu/courses/HORT/440>)/840 (<http://bulletin.unl.edu/courses/HORT/840>) is offered as a five-week course.

Principles of turfgrass and landscape plant pest management and tools to implement Integrated Pest Management (IPM) approaches. Creating healthy landscapes and effectiveness of IPM alternatives.

Credit Hours:	1
Course Format:	Lecture 1, Recitation 2
Campus:	
Course Delivery:	Classroom

HORT
842A **Plant Pathology**

[LINK \(http://bulletin.unl.edu/courses/HORT/842A\)](http://bulletin.unl.edu/courses/HORT/842A)

Course is taught by faculty from the University of Nebraska-Kearney, and will be offered in the spring semester of even-numbered calendar years. To enroll, students must be accepted into the horticulture graduate certificate program or get permission.

Survey of the principles and practice of plant pathology. The main and genetic elements in plant disease will be covered. Many of the major diseases, as well as their causes and effects, will be surveyed.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

HORT
842B **Plant Physiology**

[LINK \(http://bulletin.unl.edu/courses/HORT/842B\)](http://bulletin.unl.edu/courses/HORT/842B)

Course is taught by faculty from the University of Nebraska-Kearney, and will be offered in the fall semester of even-numbered calendar years. To enroll, students must be accepted into the horticulture graduate certificate program or get permission.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

Life processes of plants, with an emphasis on water relations and hormonal and stress physiology. Includes fundamental concepts underlying the science of crop physiology, including crop phenology, canopy development and light interception, photosynthesis and respiration, and dry matter partitioning.

HORT
896

Independent Study

[LINK \(http://bulletin.unl.edu/courses/HORT/896\)](http://bulletin.unl.edu/courses/HORT/896)

Prereqs:
12 hrs plant sciences, permission and advance approval of plan of work

Individual or group projects in research and literature review under supervision and evaluation of a departmental faculty member.

Credit Hours:	1-5
Campus:	
Course Delivery:	Classroom

HORT
897

Master of Applied Science Project

Crosslisted as *AGRI 897, AGRO 897, NRES 897*

[LINK \(http://bulletin.unl.edu/courses/HORT/897\)](http://bulletin.unl.edu/courses/HORT/897)

Prereqs:
Admission to Master of Applied Science degree program

Project activity for the Master of Applied Science degree.

Design, develop and complete a project that requires synthesis of the course topics covered in the primary area of emphasis.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

HORT
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/HORT/899\)](http://bulletin.unl.edu/courses/HORT/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

HORT
996

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/HORT/996\)](http://bulletin.unl.edu/courses/HORT/996)

Prereqs:
Permission

Investigations, without reference to thesis work, on genetic, physiological, ecological, meteorological, and morphological aspects of horticultural crops.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

HORT
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/HORT/999\)](http://bulletin.unl.edu/courses/HORT/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

MSYM
452/852

Irrigation Systems Management

Crosslisted as *HORT 452/852, WATS 452*

[LINK \(http://bulletin.unl.edu/courses/MSYM/452\)](http://bulletin.unl.edu/courses/MSYM/452)

Prereqs:
[MSYM 109 \(http://bulletin.unl.edu/courses/MSYM/109\)](http://bulletin.unl.edu/courses/MSYM/109) or general

Credit Hours:	3
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physics; AGRO/SOIL 153 (<http://bulletin.unl.edu/courses/SOIL/153>) recommended.

Irrigation management and the selection, evaluation, and improvement of irrigation systems. Includes soil-water measurement, crop water use, irrigation scheduling, irrigation efficiency, measurement of water flow, irrigation systems, groundwater and wells, pumping systems, applying chemicals with irrigation systems, and environmental and water resource considerations. Two laboratory sections are available; one which emphasizes agricultural applications and one which emphasizes horticultural applications.

Course Format: Lecture 2, Lab 2

Course Delivery: Classroom

NRES **Plant Ecophysiology: Theory and Practice**
406/806

Crosslisted as HORT 406/806, AGRO 406/806

LINK (<http://bulletin.unl.edu/courses/NRES/406>)

Prereqs:
Junior standing; 4 hrs ecology; and 4 hrs botany or plant physiology.

Offered fall semester of even-numbered calendar years.

Principles of plant physiology which underlie the relationship between plants and their physical, chemical and biotic environments. An introduction to the ecological niche, limiting factors and adaptation. An overview of the seed germination and ecology, plant and soil water relations, nutrients, plant energy budgets, photosynthesis, carbon balance and plant-animal interactions. An introduction to various field equipment used in ecophysiological studies.

Credit Hours: 4

Course Format: Lecture 3, Lab 1

Course Delivery: Classroom

NRES **Microclimate: The Biological Environment**
408/808

Crosslisted as GEOG 408/808, METR 408/808, HORT 408/808, AGRO 408/808, WATS 408

LINK (<http://bulletin.unl.edu/courses/NRES/408>)

Prereqs:
Junior standing, MATH 106 (<http://bulletin.unl.edu/courses/MATH/106>) or equivalent, 5 hrs physics, major in any of the physical or biological sciences or engineering; or permission.

Physical factors that create the biological environment. Radiation and energy balances of earth's surfaces, terrestrial and marine. Temperature, humidity, and wind regimes near the surface. Control of the physical environment through irrigation, windbreaks, frost protection, manipulation of light, and radiation. Applications to air pollution research. Instruments for measuring environmental conditions and remote sensing of the environment.

Credit Hours: 3

Course Delivery: Classroom

NRES **Agroforestry Systems in Sustainable Agriculture**
417/817

Crosslisted as HORT 418/818

LINK (<http://bulletin.unl.edu/courses/NRES/417>)

Prereqs:
12 hours biological or agricultural sciences.

At least one course in production agriculture and one course in natural resources is strongly suggested. Offered odd-numbered calendar years.

The roles of woody plants in sustainable agricultural systems of temperate regions. Emphasis on the ecological and economic benefits of trees and shrubs in the agricultural landscape. Topics include: habitat diversity and biological control; shelterbelts structure, function, benefits and design; intercropping systems; silvopastoral systems; riparian systems; and production of timber and specialty crops. Comparison of temperate agroforestry systems to those of tropical areas.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

NRES **Bio-Atmospheric Instrumentation**
469/869

Crosslisted as GEOG 469/869, METR 469/869, HORT 407/807, AGRO 469/869, MSYM 469/869

LINK (<http://bulletin.unl.edu/courses/NRES/469>)

Prereqs:
Junior standing; **MATH 106**
(<http://bulletin.unl.edu/courses/MATH/106>); 4 hrs physics; physical or biological science major.

Offered fall semester of odd-numbered calendar years.

Discussion and practical application of principles and practices of measuring meteorological and related variables near the earth's surface including temperature, humidity, precipitation, pressure, radiation and wind. Performance characteristics of sensors and modern data collection methods are discussed and evaluated.

Credit Hours: 3

Course Format: Lecture 2, Lab 1

Course Delivery: Classroom

NRES

920

Xenobiotics in the Environment

Crosslisted as *ENTO 920, HORT 920, AGRO 920*

[LINK \(http://bulletin.unl.edu/courses/NRES/920\)](http://bulletin.unl.edu/courses/NRES/920)

Prereqs:
Recommend one course each in organic chemistry, soil science, biochemistry, plant physiology, microbiology and ecology

ENTO 920 (<http://bulletin.unl.edu/courses/ENTO/920>) is offered in odd-numbered calendar years.

Fate and ecotoxicological impacts of biologically foreign compounds in soil-water-plant environments; uptake, mechanisms of toxicity and metabolism in plants and other biota. Herbicides and other pesticides.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

TLMT

414/814

Turfgrass Disease Management

Crosslisted as *HORT 414/814, PLPT 414/814, AGRO 414/814*

[LINK \(http://bulletin.unl.edu/courses/TLMT/414\)](http://bulletin.unl.edu/courses/TLMT/414)

Prereqs:
BIOS/PLPT 369 (<http://bulletin.unl.edu/courses/PLPT/369>) or one semester of introductory plant pathology.

Pathogens, epidemiology, and control of diseases specific to turfgrass.

Credit Hours: 1

Course Format: Lecture 1

Course Delivery: Classroom

TLMT

427/827

Turfgrass Systems Management

Crosslisted as *HORT 427/827, AGRO 427/827*

[LINK \(http://bulletin.unl.edu/courses/TLMT/427\)](http://bulletin.unl.edu/courses/TLMT/427)

Prereqs:
TLMT 227 (<http://bulletin.unl.edu/courses/TLMT/227>) and **TLMT 327** (<http://bulletin.unl.edu/courses/TLMT/327>).

Critical evaluation of turfgrass settings to create economical and environmentally friendly management systems for professionally managed turf areas.

Credit Hours: 3

Course Format: Lab 3, Lecture 3

Course Delivery: Classroom

ACE Outcomes: 10?

TLMT

480/880

Modified Rootzones

Crosslisted as *HORT 480/880, AGRO 480/880*

[LINK \(http://bulletin.unl.edu/courses/TLMT/480\)](http://bulletin.unl.edu/courses/TLMT/480)

Offered as a five-week course.

Modified rootzones and their applications in the turfgrass and landscape management industry. Correct applications and construction techniques.

Credit Hours: 1

Course Format: Lecture 1

Course Delivery: Web

TLMT

880

Modified Rootzones

Crosslisted as *HORT 880, AGRO 880*

[LINK \(http://bulletin.unl.edu/courses/TLMT/880\)](http://bulletin.unl.edu/courses/TLMT/880)

Modified rootzones and their applications in the turfgrass and landscape management industry. Correct applications and construction techniques.

Credit Hours: 1

Course Format: Lab 2, Lecture 1

Q

Courses for TLMT (TLMT)

HORT 813	Turfgrass and Landscape Weed Management Crosslisted as <i>TLMT 813, AGRO 813</i>	LINK (http://bulletin.unl.edu/courses/HORT/813)
Fundamental terminology associated with turfgrass and landscape weed management. Weed identification and the cultural practices and herbicide strategies to limit weed invasion and persistence.		
		Credit Hours: 1
		Course Format: Lab 2, Lecture 1
		Campus:
		Course Delivery: Classroom

HORT 840	Turfgrass and Landscape Integrated Pest Management Crosslisted as <i>TLMT 840</i>	LINK (http://bulletin.unl.edu/courses/HORT/840)
<i>TLMT/HORT 440 (http://bulletin.unl.edu/courses/HORT/440/840) (http://bulletin.unl.edu/courses/HORT/840) is offered as a five-week course.</i>		
Principles of turfgrass and landscape plant pest management and tools to implement Integrated Pest Management (IPM) approaches. Creating healthy landscapes and effectiveness of IPM alternatives.		
		Credit Hours: 1
		Course Format: Lecture 1, Recitation 2
		Campus:
		Course Delivery: Classroom

TLMT 414/814	Turfgrass Disease Management Crosslisted as <i>HORT 414/814, PLPT 414/814, AGRO 414/814</i>	LINK (http://bulletin.unl.edu/courses/TLMT/414)
Prereqs: BIOS/PLPT 369 (http://bulletin.unl.edu/courses/PLPT/369) or one semester of introductory plant pathology.		
Pathogens, epidemiology, and control of diseases specific to turfgrass.		
		Credit Hours: 1
		Course Format: Lecture 1
		Course Delivery: Classroom

TLMT 427/827	Turfgrass Systems Management Crosslisted as <i>HORT 427/827, AGRO 427/827</i>	LINK (http://bulletin.unl.edu/courses/TLMT/427)
Prereqs: TLMT 227 (http://bulletin.unl.edu/courses/TLMT/227) and TLMT 327 (http://bulletin.unl.edu/courses/TLMT/327).		
Critical evaluation of turfgrass settings to create economical and environmentally friendly management systems for professionally managed turf areas.		
		Credit Hours: 3
		Course Format: Lab 3, Lecture 3
		Course Delivery: Classroom
		ACE Outcomes: 10 ⁷

TLMT 480/880	Modified Rootzones Crosslisted as <i>HORT 480/880, AGRO 480/880</i>	LINK (http://bulletin.unl.edu/courses/TLMT/480)
<i>Offered as a five-week course.</i>		
Modified rootzones and their applications in the turfgrass and landscape management industry. Correct applications and construction techniques.		
		Credit Hours: 1
		Course Format: Lecture 1
		Course Delivery: Web

TLMT	Modified Rootzones Crosslisted as <i>HORT 880, AGRO 880</i>	LINK (http://bulletin.unl.edu/courses/TLMT/880)
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Modified rootzones and their applications in the turfgrass and landscape management industry. Correct applications and construction techniques.

Credit Hours:	1
Course Format:	Lab 2, Lecture 1
Course Delivery:	Classroom

TLMT

Turfgrass and Landscape Management Extended Internship

[LINK \(http://bulletin.unl.edu/courses/TLMT/95\)](http://bulletin.unl.edu/courses/TLMT/95)

95/295

Prereqs:

Sophomore standing; TLMT/AGRO/HORT/PGMP 227 (<http://bulletin.unl.edu/courses/PGMP/227>) or **228** (<http://bulletin.unl.edu/courses/PGMP/228>).

TLMT 295 (<http://bulletin.unl.edu/courses/TLMT/295/095>) (<http://bulletin.unl.edu/courses/TLMT/95>) requires advanced permission before registering for the course. A written and oral report is required at the completion of the career experience. Pass/No Pass only.

Participation in a turfgrass or landscape management enterprise (other than in one of those in which the student has had previous experience).

Credit Hours:	1-12
Max credits per degree:	12
Course Format:	Field
Course Delivery:	Classroom

Ω

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/AgronomyAndHorticulture). (<http://www.unl.edu/gradstudies/prospective/programs/AgronomyAndHorticulture>)

Interim Department Head: Roch Gaussoin, Ph.D.

Graduate Committee: Professors Lagrimini (chair), Arkebauer, Baenziger, Drijber, Ferguson, Holding, Waters

Graduate programs are available in the physiological, genetic, morphological, and environmental aspects of the production and utilization of horticultural crops.

A Graduate Record Examination (aptitude) is required before admission. A qualifying examination, which must be completed by the second semester in residence, will be required for all graduate students. For detailed information, see hort.unl.edu/.

Master of Science Degree.

Students intending to prepare for professional careers in horticulture may select a course of study under Option I, which includes the requirement of a thesis that contains results of original research. Students wishing to pursue an Option II masters degree must receive separate Horticulture Graduate Committee approval. For approval, the student must work with a major adviser and submit to the Graduate Committee the following items: list of the student's committee, list of major and minor courses and the student's project and plan. The requirements for admission to Candidacy and for the thesis are those of the Graduate College.

Horticulture also offers a specialization in Public Horticulture Administration. Most students will be expected to pursue an Option II masters degree although an Option I is possible. The program of studies includes required courses in business or communications, a project or thesis and an internship.

Horticulture also participates in the following interdepartmental areas of specialization for the master of science degree: environmental studies and water resources planning and management. Interested students should look under those areas for details of the program requirements.

A doctor of philosophy degree in horticulture is available.

The following may be used as a part of course work in constituting a major in horticulture: STAT 801, 802, 901, 902; AGRO 815, 914, 932, 966.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/AgronomyAndHorticulture). (<http://www.unl.edu/gradstudies/prospective/programs/AgronomyAndHorticulture>)

Retrieved from "<http://bulletin.unl.edu/graduate/Horticulture> (<http://bulletin.unl.edu/graduate/Horticulture>)"

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Human Rights and Humanitarian Affairs

Ω

Description

For a brief description of the program, application requirements and contact information, view the home page for [Human Rights and Humanitarian Affairs \(http://humanrights.unl.edu/\)](http://humanrights.unl.edu/).

Retrieved from "[http://bulletin.unl.edu/graduate/Human Rights and Humanitarian Affairs](http://bulletin.unl.edu/graduate/Human_Rights_and_Humanitarian_Affairs)
([http://bulletin.unl.edu/graduate/Human Rights and Humanitarian Affairs](http://bulletin.unl.edu/graduate/Human_Rights_and_Humanitarian_Affairs))"
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Human Sciences

Ω Courses for HUMS (HUMS)

CYAF 891	Special Topics in Human Sciences Crosslisted as <i>HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMFD 891</i>	LINK (http://bulletin.unl.edu/courses/CYAF/891)
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Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

HUMS 865	International Perspectives of Human Sciences	LINK (http://bulletin.unl.edu/courses/HUMS/865)
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Prereqs:
9 hours of human sciences classes or permission

Cross-cultural interdisciplinary perspectives of human sciences.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Classroom

HUMS 875	Research Methods Crosslisted as <i>TMFD 875</i>	LINK (http://bulletin.unl.edu/courses/HUMS/875)
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Research methods that addresses practical and theoretical issues involved in designing, conducting, and evaluating research.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Ω Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/HumanSciences).
(<http://www.unl.edu/gradstudies/prospective/programs/HumanSciences>)

The Human Sciences major includes six specializations. Communications Disorders is housed in the Department of Special Education and Communication Disorders; Child, Youth and Family Studies and Gerontology are sponsored by the Department of Child, Youth and Family Studies; Nutrition and Health Sciences is hosted by the Department of Nutrition and Health Sciences; Textiles, Clothing and Design is based in the Department of Textiles, Clothing and Design; and Leadership Studies is housed in the Department of Agricultural Leadership, Education and Communication.

Specific program and application information is available under each department's listing in this bulletin. Up-to-date information is also available on-line at cehs.unl.edu. Inquiries may be directed to cehsgrad@unl.edu or to (402) 472-5333.

Retrieved from "[http://bulletin.unl.edu/graduate/Human Sciences](http://bulletin.unl.edu/graduate/Human_Sciences) ([http://bulletin.unl.edu/graduate/Human Sciences](http://bulletin.unl.edu/graduate/Human_Sciences))"
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Veterinary and Biomedical Sciences

Subject Areas

- [Integrative Biomedical Sciences \(IBMS\) \(#IBMS\)](#)
- [Veterinary and Biomedical Sciences \(VBMS\) \(#VBMS\)](#)

Ω

Courses for IBMS (IBMS)

IBMS

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/IBMS/999\)](http://bulletin.unl.edu/courses/IBMS/999)

Prereqs:

Admission to IBMS doctoral degree program and supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Courses for VBMS (VBMS)

ASCI

442/842

Endocrinology

Crosslisted as BIOS 442/842, VBMS 842

[LINK \(http://bulletin.unl.edu/courses/ASCI/442\)](http://bulletin.unl.edu/courses/ASCI/442)

Prereqs:

A course in vertebrate physiology and/or biochemistry.

Mammalian endocrine glands from the standpoint of their structure, their physiological function in relation to the organism, the chemical nature and mechanisms of action of their secretory products, and the nature of anomalies manifested with their dysfunction.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ASCI

847

Interdisciplinary Concepts in Beef Production

Crosslisted as VBMS 847

[LINK \(http://bulletin.unl.edu/courses/ASCI/847\)](http://bulletin.unl.edu/courses/ASCI/847)

Prereqs:

Degree in veterinary medicine or animal science, or allied agricultural degree, or permission

Classroom attendance is required during each of the modules. Between modules distance education technologies (laptop computer, Internet access, a computer operating system with a word processor, spreadsheet, and presentation software, email, etc.) are used and required for discussion and assignments. The contributions and interactions of the major academic disciplines upon the production, performance, health, profitability, and sustainability of beef cow and cattle feeding operations.

A. I (3 cr)

B. II (3 cr) Prereq: VBMS *847A.

Credit Hours:	3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

BIOS

420/820

Molecular Genetics

Crosslisted as VBMS 820

[LINK \(http://bulletin.unl.edu/courses/BIOS/420\)](http://bulletin.unl.edu/courses/BIOS/420)

Prereqs:

12 hrs BIOS including BIOS 206 (<http://bulletin.unl.edu/courses/BIOS/206>) or equivalent.

Molecular basis of genetics. Gene structure and regulation, transposable elements, chromosome structure, DNA replication, and repair mechanisms and recombination.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS

440/840

Microbial Physiology

Crosslisted as VBMS 840

[LINK \(http://bulletin.unl.edu/courses/BIOS/440\)](http://bulletin.unl.edu/courses/BIOS/440)

Prereqs:

BIOS 312 (<http://bulletin.unl.edu/courses/BIOS/312>) and either 313 or 314, or permission.

Credit Hours:	3
Course Format:	Lecture 3

Molecular approaches to the study of prokaryotic cell structure and physiology, including growth, cell division, metabolism, and alternative microbial life styles.

BIOS **Immunology**

443/843

Crosslisted as *VBMS 843*

[LINK \(http://bulletin.unl.edu/courses/BIOS/443\)](http://bulletin.unl.edu/courses/BIOS/443)

Prereqs:

BIOS 206 (<http://bulletin.unl.edu/courses/BIOS/206>) and one semester organic chemistry.

BIOS 102 (<http://bulletin.unl.edu/courses/BIOS/102>) recommended.

Fundamental consideration of cellular and humoral mechanisms of immunity, the structure and function of immunoglobulins, antigen-antibody interactions; hypersensitivity; transplantation and tumor immunity; immune and autoimmune disorders.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOS **Computer-Aided Sequence Analysis Primer**

816

Crosslisted as *VBMS 818*

[LINK \(http://bulletin.unl.edu/courses/BIOS/816\)](http://bulletin.unl.edu/courses/BIOS/816)

Prereqs:

BIOC 831 (<http://bulletin.unl.edu/courses/BIOC/831>) or **BIOS 801** (<http://bulletin.unl.edu/courses/BIOS/801>) or **820** (<http://bulletin.unl.edu/courses/BIOS/820>)

Introductory course in biological sequence display, analysis and manipulation with computers. Applied rather than theoretical aspects of different programs are emphasized providing skills to satisfy the analysis demands of molecular biology research. Students completing this course will be able to search, display and analyze the biological information content of macromolecules.

Credit Hours: 2

Campus:

Course Delivery: Classroom

BIOS **Animal Biochemistry**

835

Crosslisted as *VBMS 835*

[LINK \(http://bulletin.unl.edu/courses/BIOS/835\)](http://bulletin.unl.edu/courses/BIOS/835)

Prereqs:

BIOC 831 (<http://bulletin.unl.edu/courses/BIOC/831>) or permission

Biochemistry of animal cells and tissues, with integration of major metabolic pathways and aspects of their control mechanism.

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

BIOS **Genetics, Genomics, and Bioinformatics of Prokaryotes**

942

Crosslisted as *VBMS 942*

[LINK \(http://bulletin.unl.edu/courses/BIOS/942\)](http://bulletin.unl.edu/courses/BIOS/942)

Prereqs:

BIOS 241 (<http://bulletin.unl.edu/courses/BIOS/241>) and **312** (<http://bulletin.unl.edu/courses/BIOS/312>), or permission

Prokaryotic gene regulation, DNA exchange, DNA recombination and repair, comparative prokaryotic genomics and computer-based methods of analysis.

Credit Hours: 3

Campus:

Course Delivery: Classroom

BIOS **Medical Molecular Virology**

950

Crosslisted as *VBMS 950*

[LINK \(http://bulletin.unl.edu/courses/BIOS/950\)](http://bulletin.unl.edu/courses/BIOS/950)

Prereqs:

BIOS/CHEM/BIOC 431 (<http://bulletin.unl.edu/courses/BIOC/431>)/**831** (<http://bulletin.unl.edu/courses/BIOC/831>) and **432**

Credit Hours: 3

Course Format: Lecture

<http://bulletin.unl.edu/courses/BIOC/432/832>
<http://bulletin.unl.edu/courses/BIOC/832>; VBMS *852

Offered odd-numbered calendar years. Current topics in molecular virology relevant to the natural history and pathogenesis of viral diseases of humans and animals.

Campus:
Course Delivery: Classroom

BIOS 964 Signal Transduction

Crosslisted as VBMS 964

[LINK \(http://bulletin.unl.edu/courses/BIOS/964\)](http://bulletin.unl.edu/courses/BIOS/964)

Prereqs:
BIOS 832 (<http://bulletin.unl.edu/courses/BIOS/832>), BIOS 820 (<http://bulletin.unl.edu/courses/BIOS/820>) or equivalent, or permission

Molecular basis of genetics in eukaryotes. Gene structure and regulation, transposable elements, chromosome structure, DNA replication and repair mechanisms and recombination.

Credit Hours: 3
Campus:
Course Delivery: Classroom

BIOS 966 Advanced Viral Pathogenesis

Crosslisted as VBMS 966

[LINK \(http://bulletin.unl.edu/courses/BIOS/966\)](http://bulletin.unl.edu/courses/BIOS/966)

Prereqs:
BIOS 843 (<http://bulletin.unl.edu/courses/BIOS/843>); VBMS 852 (<http://bulletin.unl.edu/courses/VBMS/852>) or equivalent introductory course in virology or experience

Advanced analysis on the mechanisms of cell and tissue damage by viruses, the spread of viruses through the body, and the host response.

Credit Hours: 3
Campus:
Course Delivery: Classroom

VBMS 408/808 Functional Histology

Crosslisted as BIOS 408/808

[LINK \(http://bulletin.unl.edu/courses/VBMS/408\)](http://bulletin.unl.edu/courses/VBMS/408)

Prereqs:
BIOS 101 (<http://bulletin.unl.edu/courses/BIOS/101>) and 101L (<http://bulletin.unl.edu/courses/BIOS/101L>), or 102 (<http://bulletin.unl.edu/courses/BIOS/102>) or 112 (<http://bulletin.unl.edu/courses/BIOS/112>); BIOS 213 (<http://bulletin.unl.edu/courses/BIOS/213>) or ASCI 240 (<http://bulletin.unl.edu/courses/ASCI/240>), BIOS 315 (<http://bulletin.unl.edu/courses/BIOS/315>) recommended.

Microscopic anatomy of the tissues and organs of major vertebrate species, including humans. Normal cellular arrangements of tissues and organs as related to their macroscopic anatomy and function, with reference to sub-cellular characteristics and biochemical processes. Functional relationships among cells, tissues, organs and organ systems, contributory to organismal well being. General introduction to pathological processes and principles underlying some diseases.

Credit Hours: 4
Course Format: Lecture 3, Lab 2
Course Delivery: Classroom

VBMS 424/824 Basic Molecular Infectious Diseases

424/824

[LINK \(http://bulletin.unl.edu/courses/VBMS/424\)](http://bulletin.unl.edu/courses/VBMS/424)

Prereqs:
BIOS 312 (<http://bulletin.unl.edu/courses/BIOS/312>); AGRO 360 (<http://bulletin.unl.edu/courses/AGRO/360>) or equivalent; or permission.

Offered spring semester of odd-numbered calendar years.

Introduction to the molecular, genetic and cellular aspects of microbial pathogenesis in humans and animals.

Credit Hours: 3
Course Delivery: Classroom

VBMS

Pathogenic Microbiology[LINK \(http://bulletin.unl.edu/courses/VBMS/441\)](http://bulletin.unl.edu/courses/VBMS/441)**441/841**Crosslisted as *BIOS 441/841***Prereqs:****BIOS 312** (<http://bulletin.unl.edu/courses/BIOS/312>) and either **313** or **314**, or permission.

Fundamental principles involved in host–microorganism interrelationships. Identification of pathogens, isolation, propagation, mode of transmission, pathogenicity, symptoms, treatment, prevention of disease, epidemiology, and methods of control.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

VBMS

Pathogenic Microbiology Laboratory[LINK \(http://bulletin.unl.edu/courses/VBMS/441L\)](http://bulletin.unl.edu/courses/VBMS/441L)**441L/841L****Prereqs:****BIOS 312** (<http://bulletin.unl.edu/courses/BIOS/312>) and **313** (<http://bulletin.unl.edu/courses/BIOS/313>) (314) or permission.

Application of diagnostic microbiological techniques to the isolation, propagation and identification of common pathogens of human beings and animals. Case studies used, in the laboratory setting, to explore and test fundamentals of transmission, epidemiology and pathogenesis of selected infectious agents and to relate these to disease signs, treatments and methods of control.

Credit Hours:	1
Course Delivery:	Classroom

VBMS

Introduction to Mechanisms of Disease[LINK \(http://bulletin.unl.edu/courses/VBMS/805\)](http://bulletin.unl.edu/courses/VBMS/805)**805****Prereqs:****ASCI 240** (<http://bulletin.unl.edu/courses/ASCI/240>) or equivalent, **BIOC/BIOS/CHEM 831** (<http://bulletin.unl.edu/courses/CHEM/831>), **VBMS/BIOS 841** (<http://bulletin.unl.edu/courses/BIOS/841>), or permissionThis course is a prerequisite for: **VBMS 975** (<http://bulletin.unl.edu/courses/VBMS/975>)

Offered odd–numbered calendar years. Designed for students of biological, animal, and veterinary sciences. Introduction to general pathology emphasizing etiology, pathogenesis, morphologic features, and fundamental alterations associated with the fundamental changes of disease.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

VBMS

Introduction to Veterinary Epidemiology[LINK \(http://bulletin.unl.edu/courses/VBMS/811\)](http://bulletin.unl.edu/courses/VBMS/811)**811****Prereqs:****Permission**

Offered summer semester of odd–numbered years. Introduction to concepts of epidemiology including definition and uses of epidemiology. Casual web theory of causation discussed and compared to the Henle–Koch postulates. Students use sampling methods to define population characteristics, detect disease and test hypotheses. Practical application of confidence, power, and sample size. Use of descriptive epidemiology to discuss population characteristics.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

VBMS

Interdisciplinary Concepts in Beef Production I[LINK \(http://bulletin.unl.edu/courses/VBMS/847A\)](http://bulletin.unl.edu/courses/VBMS/847A)**847A**

Credit Hours:	3
Campus:	

VBMS

847B**Interdisciplinary Concepts in Beef Production II**[LINK \(http://bulletin.unl.edu/courses/VBMS/847B\)](http://bulletin.unl.edu/courses/VBMS/847B)**Prereqs:**
VBMS *847A**Credit Hours:** 3**Campus:****Course Delivery:** Classroom

VBMS

848**Introduction to Veterinary Biotechnology**[LINK \(http://bulletin.unl.edu/courses/VBMS/848\)](http://bulletin.unl.edu/courses/VBMS/848)**Prereqs:**
12 hours of veterinary and biomedical sciences or DVM degree, or equivalent and permission**Credit Hours:** 1-2**Campus:****Course Delivery:** Classroom

Information and assignments for [VBMS 848](http://bulletin.unl.edu/courses/VBMS/848) (<http://bulletin.unl.edu/courses/VBMS/848>) exchanged in the classroom and via Internet. Theoretical basis for emerging cellular, molecular and reproductive technologies, and their potential applications and impacts in the practice of food animal veterinary medicine.

VBMS

852**Molecular Virology and Viral Pathogenesis**[LINK \(http://bulletin.unl.edu/courses/VBMS/852\)](http://bulletin.unl.edu/courses/VBMS/852)**Prereqs:**
[BIOS 843 \(http://bulletin.unl.edu/courses/BIOS/843\)](http://bulletin.unl.edu/courses/BIOS/843)This course is a prerequisite for: [BIOS 966 \(http://bulletin.unl.edu/courses/BIOS/966\)](http://bulletin.unl.edu/courses/BIOS/966)

Offered even-numbered calendar years. Introduction to virology with emphasis on molecular biology and pathogenesis. Concepts of virus replication strategies, virus-host interactions and virus pathogenesis.

Credit Hours: 3**Course Format:** Lecture 3**Campus:****Course Delivery:** Classroom

VBMS

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/VBMS/899\)](http://bulletin.unl.edu/courses/VBMS/899)**Prereqs:**
Admission to masters degree program and permission of major adviser**Credit Hours:** 6-10**Campus:****Course Delivery:** Classroom

VBMS

901**Diagnostic Techniques**[LINK \(http://bulletin.unl.edu/courses/VBMS/901\)](http://bulletin.unl.edu/courses/VBMS/901)

Application of the principles of pathology to current problems in the diagnostic laboratory.

Credit Hours: 1-10**Campus:****Course Delivery:** Classroom

VBMS

908**T Cell Biology: Repertoire and Effector Functions**[LINK \(http://bulletin.unl.edu/courses/VBMS/908\)](http://bulletin.unl.edu/courses/VBMS/908)**Prereqs:**
[BIOS 843 \(http://bulletin.unl.edu/courses/BIOS/843\)](http://bulletin.unl.edu/courses/BIOS/843) or permission**Credit Hours:** 3**Campus:**

Offered even-numbered calendar years. Analysis of the literature of the cellular and molecular biology of T cell recognition and effector functions. Subject areas: Scientific Methodologies; Antigen Presentation; T Cell Receptor and Coreceptor; Thymic Structure and Self/Nonself Discrimination; T Cell Regulation; Allergy and Autoimmune Diseases; and T-Cell-Mediated Inflammation and Cytokine Network.

Course Delivery: Classroom

VBMS
909 Seminar

LINK (<http://bulletin.unl.edu/courses/VBMS/909>)

P/N only.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

VBMS
919 Regulation of Eukaryotic Gene Expression

LINK (<http://bulletin.unl.edu/courses/VBMS/919>)

Prereqs:

1) [BIOC 818](http://bulletin.unl.edu/courses/BIOC/818) (<http://bulletin.unl.edu/courses/BIOC/818>) or [820](http://bulletin.unl.edu/courses/BIOC/820) (<http://bulletin.unl.edu/courses/BIOC/820>); 2) [BIOC 832](http://bulletin.unl.edu/courses/BIOC/832) (<http://bulletin.unl.edu/courses/BIOC/832>); and 3) [BIOC 838](http://bulletin.unl.edu/courses/BIOC/838) (<http://bulletin.unl.edu/courses/BIOC/838>) or [BIOS 837](http://bulletin.unl.edu/courses/BIOS/837) (<http://bulletin.unl.edu/courses/BIOS/837>) or related laboratory experience

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

Offered even-numbered calendar years. Basic mechanisms regulating gene expression in eukaryotes during various physiological states. Emphasis on understanding specific and unique mechanisms in mammalian systems. Techniques used to study gene regulation.

VBMS
920 Measurement of Animal Disease and Production

LINK (<http://bulletin.unl.edu/courses/VBMS/920>)

Prereqs:

VBMS *811 or permission

Offered odd-numbered calendar years. Measurements of disease and production, the basic tenants of epidemiology, taught in detail including incidence density, risk rates, morbidity, mortality, cause specific rates, and life tables. Methods and implications of measuring disease at the farm, regional, and national levels. Sampling strategies and the impact of these on the standard error of the estimate. Implications and biases of using retrospective production data versus prospective data. Clinical epidemiology which includes definition of tests in veterinary medicine, individual and herd level sensitivity and specificity, receiver operating characteristics curves, positive and negative predictive values, serial and parallel interpretation of tests, Kappa statistics, and issues of precision, validity, and accuracy.

Credit Hours: 2

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

VBMS
921 Analytic Observational Studies in Veterinary Epidemiology

LINK (<http://bulletin.unl.edu/courses/VBMS/921>)

Prereqs:

VBMS *811 and 920; or permission

Offered odd-numbered calendar years. Design, implementation, and analysis of cross-sectional, cohort, and case-control studies and field trials. Limitations, biases, implications of the results, and current uses of each. Evaluation of these methods as used in the scientific literature. Analyses includes chi-square tests, Cochran Chi-square tests, and epidemiologic measures of strength of association, effect, and total effect. Design, implementation, analysis and interpretation of field trials taught specifically as they relate to the practitioner.

Credit Hours: 2

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

VBMS

Critical Reading of the Epidemiology Literature

[LINK \(http://bulletin.unl.edu/courses/VBMS/925\)](http://bulletin.unl.edu/courses/VBMS/925)

925

Prereqs:
VBMS *811 or 920; or permission

May be repeated for credit. Analysis of current epidemiology and animal health literature. Critical evaluation of study design, methods of analysis, biases, field applicability, and basis for conclusions.

Credit Hours:	1
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

VBMS

Advanced Food Animal Production Medicine

[LINK \(http://bulletin.unl.edu/courses/VBMS/930\)](http://bulletin.unl.edu/courses/VBMS/930)

930

Prereqs:
Permission

Offered spring semester of even-numbered calendar years. Inter-relationships between animal health, disease, and well-being as they relate to the productivity and profitability of food animal production units. Integrates aspects of veterinary medicine, animal science, and agricultural economics. General concepts related to cattle, swine and sheep production systems, followed by specific issues that relate to different species.

Credit Hours:	2
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

VBMS

Immunovirology

[LINK \(http://bulletin.unl.edu/courses/VBMS/944\)](http://bulletin.unl.edu/courses/VBMS/944)

944

Prereqs:
Permission; organic chemistry; biochemistry; immunology and/or concepts in virology and virolopathogenesis

Pathogenic microbiology recommended. Description of virus and immune system interactions, with emphasis on mouse and human models. Mechanism of antigen presentation of viral proteins and relationship to health and disease. Analysis of the hosts immune response to selected viral infections of the major systems: neural, respiratory, gastrointestinal and immune.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

VBMS

Concepts in Experimental Immunology

[LINK \(http://bulletin.unl.edu/courses/VBMS/948\)](http://bulletin.unl.edu/courses/VBMS/948)

948

Prereqs:
BIOS 843 (<http://bulletin.unl.edu/courses/BIOS/843>) or permission

Recent advances in immunological techniques and review of conventional methods.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

VBMS

Vaccinology

[LINK \(http://bulletin.unl.edu/courses/VBMS/949\)](http://bulletin.unl.edu/courses/VBMS/949)

949

Prereqs:
VBMS/BIOS 841 (<http://bulletin.unl.edu/courses/BIOS/841>); BIOS 843 (<http://bulletin.unl.edu/courses/BIOS/843>), VBMS 843 (<http://bulletin.unl.edu/courses/VBMS/843>); VBMS/BIOS 852 (<http://bulletin.unl.edu/courses/BIOS/852>); or permission

Analysis of the theory and mechanisms involved in the development of efficacious vaccines. Microbiological and immunological aspects as well as the manufacturing and regulatory aspects of vaccine development.

Credit Hours:	2
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

VBMS

951**Advanced Molecular Infectious Diseases**[LINK \(http://bulletin.unl.edu/courses/VBMS/951\)](http://bulletin.unl.edu/courses/VBMS/951)**Prereqs:**

BIOC 832 (<http://bulletin.unl.edu/courses/BIOC/832>) or equivalent; **18 hours of biological, biomedical and/or veterinary sciences, including fundamental microbiology and genetics; or permission**

VBMS 824 (<http://bulletin.unl.edu/courses/VBMS/824>) and 843 (<http://bulletin.unl.edu/courses/VBMS/843>) or equivalent recommended. Offered spring semester of even-numbered years. Molecular and cellular aspects of microbial pathogenesis. Key literature, synthesis of scientific problems into research proposals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

VBMS

975**Seminar in Veterinary Histopathology**[LINK \(http://bulletin.unl.edu/courses/VBMS/975\)](http://bulletin.unl.edu/courses/VBMS/975)**Prereqs:**

VBMS 805 (<http://bulletin.unl.edu/courses/VBMS/805>), or equivalent and permission

May be repeated for credit. Descriptive veterinary histopathology covering diseases of all body systems in animal species including domestic, laboratory, wildlife, birds, fishes, reptiles, and amphibians. Source material is worldwide in scope.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

VBMS

996**Research on Selected Problems in Veterinary Science**[LINK \(http://bulletin.unl.edu/courses/VBMS/996\)](http://bulletin.unl.edu/courses/VBMS/996)

Credit Hours:	2-10
Campus:	
Course Delivery:	Classroom

VBMS

998**Special Topics in Veterinary Science**[LINK \(http://bulletin.unl.edu/courses/VBMS/998\)](http://bulletin.unl.edu/courses/VBMS/998)**Prereqs:**

Permission

The subject will be dependent on student demand and availability of staff. Reviews of specialized subject areas.

Credit Hours:	1-10
Campus:	
Course Delivery:	Classroom

VMED

630**Veterinary Anatomy I**

Crosslisted as *VBMS 830*

[LINK \(http://bulletin.unl.edu/courses/VMED/630\)](http://bulletin.unl.edu/courses/VMED/630)**Prereqs:**

For VBMS *830: none. For VMED 630: First year standing in the Professional Program in Veterinary Medicine

This course is a prerequisite for: [VMED 630 \(http://bulletin.unl.edu/courses/VMED/630\)](http://bulletin.unl.edu/courses/VMED/630)

Comparative and topographic anatomy of the dog, cat, and pig.

Credit Hours:	6
Course Format:	Lab 6, Lecture 3
Campus:	
Course Delivery:	Classroom

VMED

645**Animal Physiology I**

Crosslisted as *BIOS 813, ASCI 845, VBMS 845*

[LINK \(http://bulletin.unl.edu/courses/VMED/645\)](http://bulletin.unl.edu/courses/VMED/645)**Prereqs:**

For ASCI/VBMS *845/BIOS *813: An undergraduate course in

Credit Hours:	4
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biochemistry or biology or physiology. For VMED 645: First year standing in and admission to VMED.

This course is a prerequisite for: [VMED 645 \(http://bulletin.unl.edu/courses/VMED/645\)](http://bulletin.unl.edu/courses/VMED/645)

Primarily for students in animal or biological sciences or veterinary medicine.

Mammalian physiology and cellular mechanisms. Physiology of the cell, embryology, and neuro-sensory, neuromuscular, endocrine, and reproductive systems.

VMED
646

Animal Physiology II

Crosslisted as *BIOS 814*, *ASCI 846*, *VBMS 846*

[LINK \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646)

Prereqs:

For ASCI/VBMS *846/BIOS *814: An undergraduate course in biochemistry or biology or physiology. For VMED 646: First year standing in and admission to VMED.

This course is a prerequisite for: [VMED 646 \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646)

*ASCI/VBMS *846/BIOS *814/VMED 646 (http://bulletin.unl.edu/courses/VMED/646) is designed for students in animal or biological sciences or veterinary medicine.*

Mammalian physiology and cellular mechanisms. Physiology of the digestive, cardiovascular, respiratory, and renal systems.

(Redirected from [Integrative Biomedical Sciences \(/graduate/mediawiki/index.php?title=Integrative_Biomedical_Sciences&redirect=no\)](http://bulletin.unl.edu/graduate/mediawiki/index.php?title=Integrative_Biomedical_Sciences&redirect=no))

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/VeterinaryAndBiomedSciences\)](http://www.unl.edu/gradstudies/prospective/programs/VeterinaryAndBiomedSciences)

Director: David Hardin, D.V.M.

Graduate Committee: Pickard (chair); Associate Professors Keen, Reddy, Somerville

The Department offers master of science and doctor of philosophy degrees with courses of study offered in virology, bacteriology, immunology, molecular biology, neurobiology, redox biology, pathology, epidemiology, and biomedical sciences/biochemistry. The master of science in veterinary science program is offered through Option I, Option II and Option III. The Department administers the interdepartmental doctoral program in Integrative Biomedical Sciences through which it offers the PhD degree. Biochemistry and/or biostatistics courses are required for the MS and PhD degree depending on the student's field of study with the rest of the program of study tailored to the student's research interests and career goals, upon approval by the student's Graduate Supervisory Committee.

There is no generally specified language or research skill required for the PhD, but each student must meet the requirements set by the Graduate College, and approved by the Supervisory Committee, the Department and the Integrative Biomedical Sciences graduate committee.

In addition to the general requirements of the Graduate College, applicants for the MS and PhD degrees must submit scores from the Graduate Record Examination. All candidates for advanced degrees must engage in disciplinary training and research as a part of their program.

Applicants are encouraged to send a letter to the chair of the Graduate Committee describing their background, experience, and personal and academic goals in pursuing graduate study.

In addition to the courses listed below, STAT 801 and 802 or BIOC 831 and 832, or one of each, may be used as part of the course work constituting a major in veterinary science (MS) or Integrative Biomedical Sciences (PhD).

Cooperative Program in Veterinary Science

The University of Nebraska-Lincoln (UNL), College of Agricultural Sciences and Natural Resources is home to Nebraska's component of the Cooperative Program in Veterinary Medicine with Iowa State University (ISU). Students in this program begin their professional education on the UNL campus and will earn the 4-year doctor of veterinary medicine degree after continued study at ISU, College of Veterinary Medicine. The arrangement maintains tuition at the rate of ISU's in-state professional tuition rate all four years.

This innovative program, whose inaugural class of 25 Nebraska residents entered the fall semester of 2007, is the first of its kind in the United States. Program planning and development was jointly undertaken by the University of Nebraska as well as Iowa State University and has been reviewed and approved by the American Veterinary Medical Association's Council on Education. This approval insures that successful students in this program will meet requirements to take the North American Veterinary Licensure Exam (NAVLE) and subsequently attain licensure to practice veterinary medicine.

Though every professional veterinary program must provide a core curriculum, the unique opportunities provided by this program allow students to have more hands-on experience and a broader range of opportunities than some of their counterparts. Faculty at UNL are devoted to student learning and provide a strong basic science curriculum as the foundation for their veterinary students. While UNL's departments of School of Veterinary and Biomedical Sciences, Animal Science

Course Format: Lab 3, Lecture 3

Campus:

Course Delivery: Classroom

Credit Hours: 4

Course Format: Lab 3, Lecture 3

Campus:

Course Delivery: Classroom

and Entomology form the core of this program, individuals and resources throughout UNL contribute to student success. Located on the University's East Campus, the Cooperative Program in Veterinary Medicine offers updated facilities, state-of-the-art teaching resources and convenient access to the C.Y. Thompson Library. Other UNL facilities, such as Great Plains Veterinary Educational Center (GPVEC) at Clay Center, NE and the Agricultural Research and Development Center (ARDC) at Mead, NE, provide opportunities for enhanced learning through participation in animal health activities during the first two years of their professional education.

For more information about this program and admission requirements, please refer to <http://vetmed.unl.edu> (<http://vetmed.unl.edu>) or call 402-472-7211.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/VeterinaryAndBiomedSciences). (<http://www.unl.edu/gradstudies/prospective/programs/VeterinaryAndBiomedSciences>)

Retrieved from "http://bulletin.unl.edu/graduate/Veterinary_and_Biomedical_Sciences (http://bulletin.unl.edu/graduate/Veterinary_and_Biomedical_Sciences)"
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Journalism and Mass Communications

Subject Areas

- [Advertising & Public Relations \(ADPR\) \(#ADPR\)](#)
- [Broadcasting \(BRDC\) \(#BRDC\)](#)
- [Journalism Core Courses \(JOUR\) \(#JOUR\)](#)
- [Journalism Graduate Courses \(JGRD\) \(#JGRD\)](#)
- [News Editorial \(NEWS\) \(#NEWS\)](#)

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Courses for ADPR (ADPR)

ADPR

Art Direction

[LINK \(http://bulletin.unl.edu/courses/ADPR/433\)](http://bulletin.unl.edu/courses/ADPR/433)

433/833

Prereqs:

Junior standing and [JOMC 101](http://bulletin.unl.edu/courses/JOMC/101) (<http://bulletin.unl.edu/courses/JOMC/101>), [162](http://bulletin.unl.edu/courses/JOMC/162) (<http://bulletin.unl.edu/courses/JOMC/162>), [163](http://bulletin.unl.edu/courses/JOMC/163) (<http://bulletin.unl.edu/courses/JOMC/163>), [164](http://bulletin.unl.edu/courses/JOMC/164) (<http://bulletin.unl.edu/courses/JOMC/164>) and [165](http://bulletin.unl.edu/courses/JOMC/165) (<http://bulletin.unl.edu/courses/JOMC/165>); and [ADPR 251](http://bulletin.unl.edu/courses/ADPR/251) (<http://bulletin.unl.edu/courses/ADPR/251>), [283](http://bulletin.unl.edu/courses/ADPR/283) (<http://bulletin.unl.edu/courses/ADPR/283>) and [333](http://bulletin.unl.edu/courses/ADPR/333) (<http://bulletin.unl.edu/courses/ADPR/333>).

ADPR 433 (<http://bulletin.unl.edu/courses/ADPR/433/833>) (<http://bulletin.unl.edu/courses/ADPR/833>) has individual and team projects.

Visual and graphic design as applied to the corporate environments of advertising and public relations. Print and electronic design principles, strategies and elements using traditional and new digital technologies. Development of creative materials for actual clients, corporate identities, electronic presentations, professional creative portfolios, non-traditional resumes, and World Wide Web (WWW) sites.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ADPR

Digital Insight & Analytics

[LINK \(http://bulletin.unl.edu/courses/ADPR/434\)](http://bulletin.unl.edu/courses/ADPR/434)

434/834

Prereqs:

Junior standing; [ADPR 283](http://bulletin.unl.edu/courses/ADPR/283) (<http://bulletin.unl.edu/courses/ADPR/283>).

A study of the digital communication landscape. Course explores how various channels of digital communication can be used to analyze audiences, connect with them and ultimately build brands.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ADPR

Global Advertising

[LINK \(http://bulletin.unl.edu/courses/ADPR/438\)](http://bulletin.unl.edu/courses/ADPR/438)

438/838

Prereqs:
[ADPR 283 \(http://bulletin.unl.edu/courses/ADPR/283\)](http://bulletin.unl.edu/courses/ADPR/283).

Global advertising and communication. Cultural, economic, political and social differences that affect advertising strategy and execution in foreign markets. Advertising a USA product or service in the global market.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web
ACE Outcomes:	9 [?]

ADPR **Strategic and Creative Concepting**

447/847

[LINK \(http://bulletin.unl.edu/courses/ADPR/447\)](http://bulletin.unl.edu/courses/ADPR/447)

Prereqs:
[ADPR 251 \(http://bulletin.unl.edu/courses/ADPR/251\)](http://bulletin.unl.edu/courses/ADPR/251) and [283 \(http://bulletin.unl.edu/courses/ADPR/283\)](http://bulletin.unl.edu/courses/ADPR/283); [JOMC 101 \(http://bulletin.unl.edu/courses/JOMC/101\)](http://bulletin.unl.edu/courses/JOMC/101), [162 \(http://bulletin.unl.edu/courses/JOMC/162\)](http://bulletin.unl.edu/courses/JOMC/162), [163 \(http://bulletin.unl.edu/courses/JOMC/163\)](http://bulletin.unl.edu/courses/JOMC/163), [164 \(http://bulletin.unl.edu/courses/JOMC/164\)](http://bulletin.unl.edu/courses/JOMC/164) and [165 \(http://bulletin.unl.edu/courses/JOMC/165\)](http://bulletin.unl.edu/courses/JOMC/165); and Junior standing.

The alternative and advanced methods of communicating a message, a need, a perception or attitude. Creative storytelling and problem-solving, critique and analysis, and how to creatively communicate with strategic thinking and design.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ADPR **Public Relations Theory and Strategy**

450/850

[LINK \(http://bulletin.unl.edu/courses/ADPR/450\)](http://bulletin.unl.edu/courses/ADPR/450)

Prereqs:
Junior standing and either [ADPR 283 \(http://bulletin.unl.edu/courses/ADPR/283\)](http://bulletin.unl.edu/courses/ADPR/283) or [BRDC 227 \(http://bulletin.unl.edu/courses/BRDC/227\)](http://bulletin.unl.edu/courses/BRDC/227) or [JOUR 202 \(http://bulletin.unl.edu/courses/JOUR/202\)](http://bulletin.unl.edu/courses/JOUR/202).

Philosophies and theories that underlie the discipline and profession of public relations. The critical and supportive perspectives used to gain insight into the history and direction of public relations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web
ACE Outcomes:	6 [?]

ADPR **Public Relations Techniques**

451/851

[LINK \(http://bulletin.unl.edu/courses/ADPR/451\)](http://bulletin.unl.edu/courses/ADPR/451)

Prereqs:
Junior standing and either [ADPR 283 \(http://bulletin.unl.edu/courses/ADPR/283\)](http://bulletin.unl.edu/courses/ADPR/283) or [BRDC 227 \(http://bulletin.unl.edu/courses/BRDC/227\)](http://bulletin.unl.edu/courses/BRDC/227) or [JOUR 202 \(http://bulletin.unl.edu/courses/JOUR/202\)](http://bulletin.unl.edu/courses/JOUR/202).

Multimedia tools in advertising, public relations, direct marketing, and sales promotion. Promotional writing, publications development, and media relations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ADPR **New Media Design**

458/858

[LINK \(http://bulletin.unl.edu/courses/ADPR/458\)](http://bulletin.unl.edu/courses/ADPR/458)

Prereqs:
[ADPR 251 \(http://bulletin.unl.edu/courses/ADPR/251\)](http://bulletin.unl.edu/courses/ADPR/251) and [283 \(http://bulletin.unl.edu/courses/ADPR/283\)](http://bulletin.unl.edu/courses/ADPR/283); [JOMC 101 \(http://bulletin.unl.edu/courses/JOMC/101\)](http://bulletin.unl.edu/courses/JOMC/101), [162 \(http://bulletin.unl.edu/courses/JOMC/162\)](http://bulletin.unl.edu/courses/JOMC/162), [163 \(http://bulletin.unl.edu/courses/JOMC/163\)](http://bulletin.unl.edu/courses/JOMC/163), [164 \(http://bulletin.unl.edu/courses/JOMC/164\)](http://bulletin.unl.edu/courses/JOMC/164) and [165 \(http://bulletin.unl.edu/courses/JOMC/165\)](http://bulletin.unl.edu/courses/JOMC/165)

Credit Hours:	3
Course Format:	Lab 3, Lecture
Course Delivery:	Classroom

<http://bulletin.unl.edu/courses/JOMC/165>); and Junior standing.

The new media and interactive technologies used in a variety of print, broadcast, and electronic media, and digital communications. Writing, designing, and producing communications messages using traditional and new multimedia technologies.

ADPR

Writing for Digital Media

[LINK \(http://bulletin.unl.edu/courses/ADPR/459\)](http://bulletin.unl.edu/courses/ADPR/459)

459/859

Prereqs:

Junior standing and either [ADPR 283](http://bulletin.unl.edu/courses/ADPR/283) (<http://bulletin.unl.edu/courses/ADPR/283>) or [BRDC 228](http://bulletin.unl.edu/courses/BRDC/228) (<http://bulletin.unl.edu/courses/BRDC/228>).

Analysis and preparation of radio and television commercials and announcements in terms of content and production techniques. Development of structure and functions of the broadcast advertising media. Regulations, responsibilities, audience analysis, and promotion.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ADPR

Japanese Visual Culture in Context

[LINK \(http://bulletin.unl.edu/courses/ADPR/480\)](http://bulletin.unl.edu/courses/ADPR/480)

480/880

Crosslisted as *ARTP 480/880*

ADPR/ARTP 480 (<http://bulletin.unl.edu/courses/ARTP/480/880>) (<http://bulletin.unl.edu/courses/ARTP/880>) is a study abroad course that includes four days on campus in Lincoln and two and one-half weeks in Japan. *ADPR/ARTP 480* (<http://bulletin.unl.edu/courses/ARTP/480/880>) (<http://bulletin.unl.edu/courses/ARTP/880>) is 'Letter grade only'.

Test and hone visual literacy skills in a foreign country. Observe, analyze, and interpret visual information without the aid of text in the native Japanese language. Sharpen perceptual and analytical skills through daily drawing, writing, and photography in Japan. Increase global awareness through analysis of an issue.

Credit Hours:	3
Course Format:	Studio 32
Course Delivery:	Classroom
ACE Outcomes:	2 [?] , 9 [?]

ADPR

Direct Advertising

[LINK \(http://bulletin.unl.edu/courses/ADPR/482\)](http://bulletin.unl.edu/courses/ADPR/482)

482/882

Prereqs:

[ADPR 283](http://bulletin.unl.edu/courses/ADPR/283) (<http://bulletin.unl.edu/courses/ADPR/283>).

ADPR 482 (<http://bulletin.unl.edu/courses/ADPR/482/882>) (<http://bulletin.unl.edu/courses/ADPR/882>) assignments provide practical experience.

Fundamentals of direct advertising, data base building and management, the economics of the industry, development and testing of effective creative materials, product selection and pricing, telemarketing, business to business direct advertising, lead-generating programs, the use of electronic and print media in the direct advertising mix and fund-raising for worthy causes.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ADPR

Portfolio Development

[LINK \(http://bulletin.unl.edu/courses/ADPR/483\)](http://bulletin.unl.edu/courses/ADPR/483)

483/883

Prereqs:

Senior standing and [ADPR 251](http://bulletin.unl.edu/courses/ADPR/251) (<http://bulletin.unl.edu/courses/ADPR/251>), [283](http://bulletin.unl.edu/courses/ADPR/283) (<http://bulletin.unl.edu/courses/ADPR/283>) and [JOMC 101](http://bulletin.unl.edu/courses/JOMC/101) (<http://bulletin.unl.edu/courses/JOMC/101>), [162](http://bulletin.unl.edu/courses/JOMC/162) (<http://bulletin.unl.edu/courses/JOMC/162>), [163](http://bulletin.unl.edu/courses/JOMC/163) (<http://bulletin.unl.edu/courses/JOMC/163>), [164](http://bulletin.unl.edu/courses/JOMC/164) (<http://bulletin.unl.edu/courses/JOMC/164>) and [165](http://bulletin.unl.edu/courses/JOMC/165) (<http://bulletin.unl.edu/courses/JOMC/165>).

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Classroom

How to improve individual portfolios of creative work and execute a variety of creative pieces that demonstrate improvement in their collections.

ADPR

Brands & Branding

[LINK \(http://bulletin.unl.edu/courses/ADPR/484\)](http://bulletin.unl.edu/courses/ADPR/484)

484/884

Prereqs:

Junior standing; [ADPR 251 \(http://bulletin.unl.edu/courses/ADPR/251\)](http://bulletin.unl.edu/courses/ADPR/251), [283 \(http://bulletin.unl.edu/courses/ADPR/283\)](http://bulletin.unl.edu/courses/ADPR/283); [JOMC 101 \(http://bulletin.unl.edu/courses/JOMC/101\)](http://bulletin.unl.edu/courses/JOMC/101), [162 \(http://bulletin.unl.edu/courses/JOMC/162\)](http://bulletin.unl.edu/courses/JOMC/162), [163 \(http://bulletin.unl.edu/courses/JOMC/163\)](http://bulletin.unl.edu/courses/JOMC/163), [164 \(http://bulletin.unl.edu/courses/JOMC/164\)](http://bulletin.unl.edu/courses/JOMC/164) and [165 \(http://bulletin.unl.edu/courses/JOMC/165\)](http://bulletin.unl.edu/courses/JOMC/165).

The managerial philosophy, techniques, and processes in advertising. Organizational structures, integrated marketing communications, strategic planning, marketing planning, advertising planning, advertising research, budgeting, and decision paradigms.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ADPR

Media Sales and Promotion

[LINK \(http://bulletin.unl.edu/courses/ADPR/488\)](http://bulletin.unl.edu/courses/ADPR/488)

488/888

Prereqs:

For ADPR majors: [ADPR 283 \(http://bulletin.unl.edu/courses/ADPR/283\)](http://bulletin.unl.edu/courses/ADPR/283); Junior standing for BRDC majors.

Techniques for print and electronic media sales and promotion. Rate structures, legal requirements, and social and economic effects.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ADPR

Advertising and Public Relations Campaigns

[LINK \(http://bulletin.unl.edu/courses/ADPR/489\)](http://bulletin.unl.edu/courses/ADPR/489)

489/889

Prereqs:

Senior standing and nine hours selected from [JOUR 201 \(http://bulletin.unl.edu/courses/JOUR/201\)](http://bulletin.unl.edu/courses/JOUR/201), [JOUR 202 \(http://bulletin.unl.edu/courses/JOUR/202\)](http://bulletin.unl.edu/courses/JOUR/202), [ADPR 207 \(http://bulletin.unl.edu/courses/ADPR/207\)](http://bulletin.unl.edu/courses/ADPR/207), or from 300- or 400- level ADPR electives.

ADPR 489 (http://bulletin.unl.edu/courses/ADPR/489) requires working in teams.

Conduct research and evaluate the findings to develop and present an integrated marketing communications strategy and creative materials for a multimedia advertising and public relations campaign needed by a client. Application of knowledge, experience, and skills learned in previous courses to a new situation.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

ADPR

Special Topics in Advertising

[LINK \(http://bulletin.unl.edu/courses/ADPR/491\)](http://bulletin.unl.edu/courses/ADPR/491)

491/891

ADPR 491 (http://bulletin.unl.edu/courses/ADPR/491)/891 (http://bulletin.unl.edu/courses/ADPR/891) may be repeated up to three times so long as the topics are different.

Topics vary each term.

Credit Hours:	1-4
Max credits per degree:	12
Course Format:	Lecture
Course Delivery:	Classroom

ADPR

496/896

Independent Study in Advertising and Public Relations[LINK \(http://bulletin.unl.edu/courses/ADPR/496\)](http://bulletin.unl.edu/courses/ADPR/496)**Prereqs:**
Permission.

Credit Hours:	1-24
Max credits per degree:	24
Course Format:	Independent Study
Course Delivery:	Classroom

ADPR

830

Strategic Communications: Advertising Issues and Strategies[LINK \(http://bulletin.unl.edu/courses/ADPR/830\)](http://bulletin.unl.edu/courses/ADPR/830)

Seminar for graduate students who do not have the equivalent of an undergraduate degree in advertising. Business of advertising and promotion, and the processes and planning involved in strategic promotional communication. Current issues and strategies faced by advertising practitioners, the importance of branding, integrated marketing communications and promotion. Creation of a strategic marketing plan.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ADPR

898

Special Topics in Advertising[LINK \(http://bulletin.unl.edu/courses/ADPR/898\)](http://bulletin.unl.edu/courses/ADPR/898)

Course may be repeated up to three times so long as the topics are different. Topic varies each semester.

Credit Hours:	1-4
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

ADPR

98

Senior Assessment[LINK \(http://bulletin.unl.edu/courses/ADPR/98\)](http://bulletin.unl.edu/courses/ADPR/98)**Prereqs:**
Senior standing; ADPR major; candidate for degree.

All seniors must complete an exit interview to remain eligible for graduation.
ADPR 98 (<http://bulletin.unl.edu/courses/ADPR/98>) uses Blackboard.
Pass/No Pass only.

Appropriate career-related announcements, activities, and responsibilities.

Credit Hours:	0
Course Format:	Independent Study
Course Delivery:	Web

Ω

Courses for BRDC (BRDC)

BRDC

428/828

Advanced Television Production[LINK \(http://bulletin.unl.edu/courses/BRDC/428\)](http://bulletin.unl.edu/courses/BRDC/428)**Prereqs:**
BRDC 228 (<http://bulletin.unl.edu/courses/BRDC/228>).

Theory of visualization for television. Practical application of directing techniques. Programs analyzed in relation to translation of facts, ideas, emotions and attitudes through television. Program production experience in the studios of the university station, KUON-TV.

Credit Hours:	3
Course Delivery:	Classroom

BRDC

454/854

Broadcast Management[LINK \(http://bulletin.unl.edu/courses/BRDC/454\)](http://bulletin.unl.edu/courses/BRDC/454)

Prereqs:
Senior standing and major in broadcasting.

Organizational and management procedures as they relate to the telecommunications media.

Credit Hours: 3

Course Delivery: Classroom

BRDC

Broadcast Programming

455/855

[LINK \(http://bulletin.unl.edu/courses/BRDC/455\)](http://bulletin.unl.edu/courses/BRDC/455)

Prereqs:
Senior standing and major in broadcasting.

Radio and television program philosophies and formats with emphasis on regulations, responsibilities, economics and audience measurement procedures.

Credit Hours: 3

Course Delivery: Classroom

BRDC

Cable Telecommunications

456/856

[LINK \(http://bulletin.unl.edu/courses/BRDC/456\)](http://bulletin.unl.edu/courses/BRDC/456)

Prereqs:
[BRDC 228 \(http://bulletin.unl.edu/courses/BRDC/228\)](http://bulletin.unl.edu/courses/BRDC/228).

Development of cable telecommunications systems and relevant regulatory aspects of cable development. Current and future projections of cable systems management systems—satellites, teletext, interactive, access channels, importation, origination, pay cable.

Credit Hours: 3

Course Delivery: Classroom

BRDC

Instructional Television

461/861

[LINK \(http://bulletin.unl.edu/courses/BRDC/461\)](http://bulletin.unl.edu/courses/BRDC/461)

Prereqs:
Senior standing in broadcasting.

Preparation of instructional television programs. Historical development of television as an instructional medium, learning and communication theory relevant to proper applications of televised instruction.

Credit Hours: 3

Course Delivery: Classroom

BRDC

International Broadcasting

465/865

[LINK \(http://bulletin.unl.edu/courses/BRDC/465\)](http://bulletin.unl.edu/courses/BRDC/465)

Prereqs:
Senior standing in broadcasting or international studies.

Development of programming patterns and controls as well as cultural consideration of national and international systems of broadcasting.

Credit Hours: 3

Course Delivery: Classroom

BRDC

Telecommunication and Information Systems

466/866

[LINK \(http://bulletin.unl.edu/courses/BRDC/466\)](http://bulletin.unl.edu/courses/BRDC/466)

Prereqs:
Permission of department head.

Open to non-majors.

The telephone industry, voice and data communication and networking systems. Explores the development and structure of telecommunications, issues, services, applications, technology and management.

Credit Hours: 3

Course Delivery: Classroom

BRDC

Advanced Cinematography/Videography[LINK \(http://bulletin.unl.edu/courses/BRDC/469\)](http://bulletin.unl.edu/courses/BRDC/469)**469/869****Prereqs:****BRDC 359** (<http://bulletin.unl.edu/courses/BRDC/359>) and **369** (<http://bulletin.unl.edu/courses/BRDC/369>).*BRDC 469* (<http://bulletin.unl.edu/courses/BRDC/469/869>) (<http://bulletin.unl.edu/courses/BRDC/869>) is a continuation of *BRDC 359* (<http://bulletin.unl.edu/courses/BRDC/359>) and *369* (<http://bulletin.unl.edu/courses/BRDC/369>).

Production of single and double system sound films. Production of videotapes for television.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BRDC

Broadcast Documentary[LINK \(http://bulletin.unl.edu/courses/BRDC/473\)](http://bulletin.unl.edu/courses/BRDC/473)**473/873****Prereqs:****Senior standing in broadcasting; BRDC 372** (<http://bulletin.unl.edu/courses/BRDC/372>).

Depth reporting and advanced production techniques necessary for the preparation of a broadcast documentary program.

Credit Hours:	3
Course Delivery:	Classroom

BRDC

Advanced Broadcast Writing[LINK \(http://bulletin.unl.edu/courses/BRDC/474\)](http://bulletin.unl.edu/courses/BRDC/474)**474/874****Prereqs:****Senior standing.**This course is a prerequisite for: **THEA 482** (<http://bulletin.unl.edu/courses/THEA/482>)

Techniques of planning, preparing and writing radio, television and motion picture scripts including announcements, interviews, talk programs, features, editorials, investigative reports and dramatic adaptations.

Credit Hours:	3
Course Delivery:	Classroom

BRDC

Special Topics in Broadcasting[LINK \(http://bulletin.unl.edu/courses/BRDC/898\)](http://bulletin.unl.edu/courses/BRDC/898)**898**

Course may be repeated up to three times so long as the topics are different. Topic varies each term.

Credit Hours:	1-4
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

0

Courses for JOUR (JOUR)

JOUR

Depth Reporting[LINK \(http://bulletin.unl.edu/courses/JOUR/401\)](http://bulletin.unl.edu/courses/JOUR/401)**401/801****Prereqs:****JOUR 302** (<http://bulletin.unl.edu/courses/JOUR/302>).*Work in JOUR 401* (<http://bulletin.unl.edu/courses/JOUR/401/801>) (<http://bulletin.unl.edu/courses/JOUR/801>) will appear on the student news World Wide Web (WWW) site. Jour 401/801 is 'Letter grade only'.

Long-form writing, interviewing, computer-generated research, refined writing and teamwork in the creation of a single-subject project.

Credit Hours:	3
Course Format:	Studio
Course Delivery:	Classroom

JOUR

Digital Photojournalism I[LINK \(http://bulletin.unl.edu/courses/JOUR/404\)](http://bulletin.unl.edu/courses/JOUR/404)**404/804****Prereqs:**

[JOMC 101 \(http://bulletin.unl.edu/courses/JOMC/101\)](http://bulletin.unl.edu/courses/JOMC/101) and [162 \(http://bulletin.unl.edu/courses/JOMC/162\)](http://bulletin.unl.edu/courses/JOMC/162).

This course is a prerequisite for: [JOUR 406 \(http://bulletin.unl.edu/courses/JOUR/406\)](http://bulletin.unl.edu/courses/JOUR/406)

Student work in [JOUR 404 \(http://bulletin.unl.edu/courses/JOUR/404\)](http://bulletin.unl.edu/courses/JOUR/404)/[804 \(http://bulletin.unl.edu/courses/JOUR/804\)](http://bulletin.unl.edu/courses/JOUR/804) will appear on student news World Wide Web (WWW) site.

News, feature, sports and picture-story journalism.

Credit Hours:	3
Course Format:	Studio
Course Delivery:	Classroom

JOUR

Digital Photojournalism II[LINK \(http://bulletin.unl.edu/courses/JOUR/406\)](http://bulletin.unl.edu/courses/JOUR/406)**406/806****Prereqs:**

[JOUR 404 \(http://bulletin.unl.edu/courses/JOUR/404\)](http://bulletin.unl.edu/courses/JOUR/404)/[804 \(http://bulletin.unl.edu/courses/JOUR/804\)](http://bulletin.unl.edu/courses/JOUR/804).

Work in [JOUR 406 \(http://bulletin.unl.edu/courses/JOUR/406\)](http://bulletin.unl.edu/courses/JOUR/406)/[806 \(http://bulletin.unl.edu/courses/JOUR/806\)](http://bulletin.unl.edu/courses/JOUR/806) will appear on the student news World Wide Web (WWW) site.

Building visual skills to recognize action, reaction and/or emotion, and incorporating them into the shootings and pictures.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Course Delivery:	Classroom

JOUR

Investigative and Computer-assisted Reporting[LINK \(http://bulletin.unl.edu/courses/JOUR/407\)](http://bulletin.unl.edu/courses/JOUR/407)**407/807**

Conduct investigative and in-depth reporting by using documents and computer databases, interviewing, and field research to write compelling stories.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

JOUR

Page Design[LINK \(http://bulletin.unl.edu/courses/JOUR/410\)](http://bulletin.unl.edu/courses/JOUR/410)**410/810****Prereqs:**

[JOMC 162 \(http://bulletin.unl.edu/courses/JOMC/162\)](http://bulletin.unl.edu/courses/JOMC/162), [163 \(http://bulletin.unl.edu/courses/JOMC/163\)](http://bulletin.unl.edu/courses/JOMC/163), [164 \(http://bulletin.unl.edu/courses/JOMC/164\)](http://bulletin.unl.edu/courses/JOMC/164) and [165 \(http://bulletin.unl.edu/courses/JOMC/165\)](http://bulletin.unl.edu/courses/JOMC/165); [JOUR 201 \(http://bulletin.unl.edu/courses/JOUR/201\)](http://bulletin.unl.edu/courses/JOUR/201).

Designing elements of news presentation, including newspapers, magazines, and web sites.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

JOUR

Government Controls of Information[LINK \(http://bulletin.unl.edu/courses/JOUR/414\)](http://bulletin.unl.edu/courses/JOUR/414)**414/814**

Laws, regulations, and practices by which federal, state, and local government enhance or retard access to information about the executive, legislative, and judicial branches.

Credit Hours:	3
Max credits per degree:	3
Course Format:	Lecture 3
Course Delivery:	Classroom,

JOUR

School Publications[LINK \(http://bulletin.unl.edu/courses/JOUR/467\)](http://bulletin.unl.edu/courses/JOUR/467)**467/867**

JOUR 467 (http://bulletin.unl.edu/courses/JOUR/467/867 (http://bulletin.unl.edu/courses/JOUR/867) is open only to students seeking a 7–12 journalism teaching endorsement.

Problems and procedures involved in producing school newspapers, yearbooks, literary magazines, and radio and/or video projects.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

JOUR

Media Economics[LINK \(http://bulletin.unl.edu/courses/JOUR/813\)](http://bulletin.unl.edu/courses/JOUR/813)**813**

Economic theory applied to analysis of mass media industries. Structure, performance, and competitions across print media, advertising, broadcasting, and new digital media. Preparation for conducting economic analyses of mass media behavior and performance.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

JOUR

Senior Assessment[LINK \(http://bulletin.unl.edu/courses/JOUR/98\)](http://bulletin.unl.edu/courses/JOUR/98)**98**

Prereqs:
Senior standing; JOUR major; candidate for degree.

All seniors must complete an exit interview to remain eligible for graduation. JOUR 98 (http://bulletin.unl.edu/courses/JOUR/98) uses Blackboard. JOUR 98 (http://bulletin.unl.edu/courses/JOUR/98) is 'Pass/No Pass only'.

Appropriate career-related announcements, activities, and responsibilities.

Credit Hours:	0
Course Format:	Independent Study
Course Delivery:	Classroom, Web

Ω

Courses for JGRD (JGRD)

JGRD

Media Law Seminar[LINK \(http://bulletin.unl.edu/courses/JGRD/809\)](http://bulletin.unl.edu/courses/JGRD/809)**809**

Reading, discussion, and research on current issues in mass media law or theoretical bases for freedom of expression.

Credit Hours:	3
Course Format:	Lecture, Recitation
Campus:	
Course Delivery:	Classroom

JGRD

Seminar in Media History[LINK \(http://bulletin.unl.edu/courses/JGRD/811\)](http://bulletin.unl.edu/courses/JGRD/811)**811**

Readings and discussion of major issues, events, and people in the history of mass media in the United States.

Credit Hours:	3
Course Format:	Lecture, Recitation
Campus:	
Course Delivery:	Classroom

JGRD

Mass Media: Introduction[LINK \(http://bulletin.unl.edu/courses/JGRD/820\)](http://bulletin.unl.edu/courses/JGRD/820)

820**Prereqs:**
Permission

Mass media structure, development, systems, responsibilities and ethics, and criticisms.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

JGRD

831**Strategic Communications: Writing and Design**[LINK \(http://bulletin.unl.edu/courses/JGRD/831\)](http://bulletin.unl.edu/courses/JGRD/831)

Seminar for graduate students who do not have an undergraduate degree in advertising. Strategic and creative components of advertising, both from the visual and textual perspectives. Specific strategies for writing and designing advertising, promotional and public relations materials; creative aspects related to strategic planning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

JGRD

835**International Communications**[LINK \(http://bulletin.unl.edu/courses/JGRD/835\)](http://bulletin.unl.edu/courses/JGRD/835)**Prereqs:**
Permission

Systems of mass communications in foreign countries and across international boundaries.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

JGRD

891**Special Topics**[LINK \(http://bulletin.unl.edu/courses/JGRD/891\)](http://bulletin.unl.edu/courses/JGRD/891)

JGRD 891 (http://bulletin.unl.edu/courses/JGRD/891) may be repeated up to three times so long as the topics are different.

Topics vary.

Credit Hours:	1-4
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

JGRD

896**Independent Study**[LINK \(http://bulletin.unl.edu/courses/JGRD/896\)](http://bulletin.unl.edu/courses/JGRD/896)**Prereqs:**
Permission of major adviser

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

JGRD

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/JGRD/899\)](http://bulletin.unl.edu/courses/JGRD/899)**Prereqs:**
Admission to masters degree program and permission of major adviser

Credit Hours:	6
Campus:	
Course Delivery:	Classroom

JGRD

901**Ethics and Issues in Mass Communication**[LINK \(http://bulletin.unl.edu/courses/JGRD/901\)](http://bulletin.unl.edu/courses/JGRD/901)

Ethical framework for exploring current issues in mass communications.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

JGRD **902** **Multi-platform Journalism**

[LINK \(http://bulletin.unl.edu/courses/JGRD/902\)](http://bulletin.unl.edu/courses/JGRD/902)

Skills and technologies involved with multi-platform journalism and management.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

JGRD **903** **Media Management**

[LINK \(http://bulletin.unl.edu/courses/JGRD/903\)](http://bulletin.unl.edu/courses/JGRD/903)

Current issues in business management related to the media environment.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

JGRD **915** **Mass Communication Theory**

[LINK \(http://bulletin.unl.edu/courses/JGRD/915\)](http://bulletin.unl.edu/courses/JGRD/915)

Process and effects of mass communication.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

JGRD **919** **Methods of Mass Communication Research**

[LINK \(http://bulletin.unl.edu/courses/JGRD/919\)](http://bulletin.unl.edu/courses/JGRD/919)

Research concepts and procedures with emphasis on methodology and research techniques in mass communication. Development of competency in consumption and interpretation of research combined with an introduction to research design, analysis, and decision making.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

JGRD **954** **Mass Media and Government**

[LINK \(http://bulletin.unl.edu/courses/JGRD/954\)](http://bulletin.unl.edu/courses/JGRD/954)

Process and effects of regulatory information control procedures of federal, state, and local government.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

JGRD **992** **Professional Project**

[LINK \(http://bulletin.unl.edu/courses/JGRD/992\)](http://bulletin.unl.edu/courses/JGRD/992)

Development of thesis topic may come from [JGRD 992 \(http://bulletin.unl.edu/courses/JGRD/992\)](http://bulletin.unl.edu/courses/JGRD/992). [JGRD 992 \(http://bulletin.unl.edu/courses/JGRD/992\)](http://bulletin.unl.edu/courses/JGRD/992) is designed for increasing competency in professional practice and depending on goals, may be

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Independent

concentrated in ADVT, BRDC, or NEWS. Translation of social, political, and economic affairs to mass audiences in both print and electronic media.

Study

Campus:

Course Delivery: Classroom

JGRD

995

Issues in Mass Communication

[LINK \(http://bulletin.unl.edu/courses/JGRD/995\)](http://bulletin.unl.edu/courses/JGRD/995)

Current problems in mass communication and interrelated social, economic, and political factors. Topic varies.

Credit Hours: 1-3

Max credits per degree: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

Courses for NEWS (NEWS)

NEWS

498/898

Special Topics in News-Editorial

[LINK \(http://bulletin.unl.edu/courses/NEWS/498\)](http://bulletin.unl.edu/courses/NEWS/498)

NEWS 498 (<http://bulletin.unl.edu/courses/NEWS/498/898> (<http://bulletin.unl.edu/courses/NEWS/898>) may be repeated up to three times so long as the topics are different.

Topics vary each term.

Credit Hours: 1-4

Max credits per semester: 12

Course Delivery: Classroom

NEWS

803

Public Journalism

[LINK \(http://bulletin.unl.edu/courses/NEWS/803\)](http://bulletin.unl.edu/courses/NEWS/803)

Prereqs:
[BRDC 372 \(http://bulletin.unl.edu/courses/BRDC/372\)](http://bulletin.unl.edu/courses/BRDC/372) or [NEWS 371 \(http://bulletin.unl.edu/courses/NEWS/371\)](http://bulletin.unl.edu/courses/NEWS/371) or permission

Survey of public/civic journalism, its goals and practices and how it differs from and is similar to traditional ideas of journalism.

Credit Hours: 3

Campus:

Course Delivery: Classroom

NEWS

879

Advanced Graphics

[LINK \(http://bulletin.unl.edu/courses/NEWS/879\)](http://bulletin.unl.edu/courses/NEWS/879)

Prereqs:
[NEWS 303 \(http://bulletin.unl.edu/courses/NEWS/303\)](http://bulletin.unl.edu/courses/NEWS/303) and permission

Intensive lecture-laboratory experience. Journalism writing and editing with computer graphics techniques.

Credit Hours: 3

Campus:

Course Delivery: Classroom

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/JournalismAndMassComm\)](http://www.unl.edu/gradstudies/prospective/programs/JournalismAndMassComm)

Interim Dean: Jim O'Hanlon, PhD

Graduate Chair: Laurie Lee, PhD

The graduate program in journalism and mass communications is designed to prepare students to enter a variety of media professions. Students hone their abilities to communicate effectively to audiences in the midst of a changing media environment by focusing their studies in advertising, broadcasting, news-editorial or a combination of areas.

Students interested in news–editorial and broadcasting can select the professional journalism track, designed to combine principles and practices to prepare them to be leaders in the field, or a thesis track, created to help them build a foundation for a successful future in the academic world. Students interested in an academic career in advertising, publication and strategic communication can also choose the thesis track.

Students entering the graduate program, with the exception of those in the advertising, marketing and communication studies specialization, must have the equivalent of a journalism major from an accredited program in journalism. Applicants with an undergraduate major in an area of study other than journalism, or students with deficiencies in their journalism background, may be admitted with a provisional status and will be required to complete undergraduate journalism courses. For students admitted to an advertising graduate option, an undergraduate or graduate level statistics course is a prerequisite. An applicant's professional experience will be considered by the graduate committee of the College of Journalism and Mass Communications in determining the specific courses required to provide a background necessary to qualify for study in the master of arts program in journalism and mass communications.

Master of Arts in Journalism and Mass Communications.

All candidates must complete a program that conforms to the general requirements of the Graduate College. Refer to "Requirements for Graduate Degrees" in this bulletin. Completion of a minimum of 30 semester hours credit in approved courses is required for those choosing the thesis track, Option I (refer to "Requirements for the Masters Degree"). Up to 9 hours in graduate–level courses may be included from academic course work from outside the College or outside the student's area of specialization within the college. Journalism course numbers that are required in Option I are: 915 Mass Communication Theory (3 cr); 919 Methods of Mass Communication Research (3 cr); 954 Mass Media and Government (3 cr); 992 Professional Project or advanced level course work (6 cr); 899 Masters Thesis (6–10 cr).

News–editorial and broadcasting students in the professional journalism specialization follow the guidelines for Option III. This requires students to complete 36 hours of course work, including a professional project and intensive course work in place of a minor. Fifteen hours of course work are required, including JGRD 901 Mass Media Issues and Ethics (3 cr); JGRD 902 Multi–Platform Journalism (3 cr); JGRD 903 Media Management (3 cr); and JGRD 992 Professional Project (6 cr). Students select 21 hours of approved electives. Eighteen credit hours must be earned in courses open exclusively to graduate students. A minimum of 18 credit hours must be taken in the college.

All applicants to the graduate program must provide Graduate Record Examination scores. Competitive applicants have a combined score of 1,000 with a verbal score of 500 and an analytical writing score of 4.5. Applicants with lower scores will also be considered. In addition, applicants who speak English as a second language must present documentation of a TOEFL score of 600 or higher (100 computer–based) and a minimum of 25 on the speak portion of the TOEFL exam, if they do not have a bachelors degree from a U.S. post–secondary institution.

Specializations available for the MA in Journalism and Mass Communications:

Integrated Media Communications (IMC); Media Studies; and Professional Journalism.

Please note that Journalism and Mass Communications offers a media specialization in cooperation with the doctoral program in [Political Science](http://www.unl.edu/gradstudies/prospective/programs/PoliticalScience.shtml) (<http://www.unl.edu/gradstudies/prospective/programs/PoliticalScience.shtml>). Students may also obtain a joint degree (JD/MA) in conjunction with the [College of Law](http://law.unl.edu/academics/degree_programs.shtml#jurisdoctor) (http://law.unl.edu/academics/degree_programs.shtml#jurisdoctor).

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/JournalismAndMassComm). (<http://www.unl.edu/gradstudies/prospective/programs/JournalismAndMassComm>)

Retrieved from "[http://bulletin.unl.edu/graduate/Journalism and Mass Communications](http://bulletin.unl.edu/graduate/Journalism_and_Mass_Communications) ([http://bulletin.unl.edu/graduate/Journalism and Mass Communications](http://bulletin.unl.edu/graduate/Journalism_and_Mass_Communications))"
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Law/Legal Studies

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Courses for LAW (LAW)

ACCT 837	Taxation–Individual Income Crosslisted as <i>LAW 637G</i>	LINK (http://bulletin.unl.edu/courses/ACCT/837)
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The structure and content of the federal income tax system, focusing on taxation of individuals. Income, deductions, income splitting, capital gains, and tax accounting. Technical proficiency in solving tax problems and an understanding of the tax policy decisions implicit in the technical rules.

Credit Hours: 3–4

Max credits per degree: 4

Campus:

Course Delivery: Classroom

ACCT 848	Business Planning Crosslisted as <i>LAW 648G</i>	LINK (http://bulletin.unl.edu/courses/ACCT/848)
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Prereqs:
[LAW 632 \(http://bulletin.unl.edu/courses/LAW/632\)/G, 638/G](http://bulletin.unl.edu/courses/LAW/632/G)

Credit Hours: 1–4

Campus:

Series of separate, rather detailed planning problems. Each problem calls for the selection and planning of a transaction to meet the needs of the parties involved, in light of applicable corporate, partnership, tax, and securities considerations.

Course Delivery: Classroom

ACCT
863 **Taxation—Individual Income II**

Crosslisted as *LAW 663G*

[LINK \(http://bulletin.unl.edu/courses/ACCT/863\)](http://bulletin.unl.edu/courses/ACCT/863)

Most important tax principles affecting business and investments, as well as an introduction to basic tax procedure (both administrative and judicial), civil and criminal fraud, tax research, and certain ethical issues common in tax practice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ACCT
967 **Estate Planning**

Crosslisted as *LAW 767G*

[LINK \(http://bulletin.unl.edu/courses/ACCT/967\)](http://bulletin.unl.edu/courses/ACCT/967)

Prereqs:
[LAW 637 \(http://bulletin.unl.edu/courses/LAW/637\)/G](http://bulletin.unl.edu/courses/LAW/637/G)

Pre- or coreq: [LAW 639 \(http://bulletin.unl.edu/courses/LAW/639\)/G](http://bulletin.unl.edu/courses/LAW/639/G). Federal estate and gift taxation, related income tax rules, estate planning concepts, and state inheritance taxation.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

ACCT
969 **Tax Policy Seminar**

Crosslisted as *LAW 769G*

[LINK \(http://bulletin.unl.edu/courses/ACCT/969\)](http://bulletin.unl.edu/courses/ACCT/969)

Policies of federal income taxation with emphasis on current legislative proposals and alternatives.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

AECN
804 **Agricultural Law**

Crosslisted as *LAW 704G*

[LINK \(http://bulletin.unl.edu/courses/AECN/804\)](http://bulletin.unl.edu/courses/AECN/804)

Legal problems and issues of unique importance to lawyers serving the agricultural sector. The Farm Credit System, the Farmers' Home Administration, and farm financing problems under the Uniform Commercial Code; commodity futures markets; agricultural cooperatives; farmland preservation and rural land use controls; foreign investment in American agriculture; farm labor legislation; farm programs and the economic regulation of agriculture; pesticides; and food additives.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

AECN
841 **Environmental Law**

Crosslisted as *LAW 641G*

[LINK \(http://bulletin.unl.edu/courses/AECN/841\)](http://bulletin.unl.edu/courses/AECN/841)

Legal problems encountered as a result of the impairment of the quality of the environment. Control of air, water, land, noise, and radiation pollution, and the roles of federal, interstate, state, and local agencies in affording protection. Includes private actions, class actions, and regulatory actions to protect both private and public interests.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

AECN
876 **Water Law, Planning and Policy**

Crosslisted as *LAW 776G*

[LINK \(http://bulletin.unl.edu/courses/AECN/876\)](http://bulletin.unl.edu/courses/AECN/876)

Judicial, legislative, and administrative problems in water resource

Credit Hours: 1-4

development, allocation, and control.

Campus:

Course Delivery: Classroom

AECN

893

Law and Economics

Crosslisted as *LAW 693G*

[LINK \(http://bulletin.unl.edu/courses/AECN/893\)](http://bulletin.unl.edu/courses/AECN/893)

Economic principles to problems of legal interpretation and policy. Gives economic background for substantive courses in such areas as antitrust, regulated industries, and environmental law and also demonstrates the power of economic analysis when applied to problems in such diverse areas as contracts, property, torts, criminal law, family law, corporations, taxation, securities, procedure, and constitutional law.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

CIVE

916

Environmental Law and Water Resource Management Seminar

Crosslisted as *NRES 916, LAW 774G*

[LINK \(http://bulletin.unl.edu/courses/CIVE/916\)](http://bulletin.unl.edu/courses/CIVE/916)

Prereqs:
Permission

An interdisciplinary seminar with the Department of Civil Engineering. Contemporary environmental issues and water resource management.

Credit Hours: 1-4

Max credits per degree: 4

Campus:

Course Delivery: Classroom

CYAF

950

Family Law

Crosslisted as *LAW 630G*

[LINK \(http://bulletin.unl.edu/courses/CYAF/950\)](http://bulletin.unl.edu/courses/CYAF/950)

The family examined as a socio-legal entity with respect to its creation, dissolution, and the problems incident to its continuation, including interspousal rights and duties and the relationship between parents and children.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

ECON

814

Insurance Law

Crosslisted as *LAW 783G*

[LINK \(http://bulletin.unl.edu/courses/ECON/814\)](http://bulletin.unl.edu/courses/ECON/814)

Principles of insurance law. Focuses on features of common insurance contracts and the legislative, judicial and administrative supervision of both insurance contracts and the insurance industry.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

ECON

827

Land Use Planning

Crosslisted as *LAW 699G*

[LINK \(http://bulletin.unl.edu/courses/ECON/827\)](http://bulletin.unl.edu/courses/ECON/827)

Legal and administrative aspects of the regulation of land use and development, the problems and techniques of urban planning at the various levels of government, and the relationship of private owners and builders to the government policies involved in shaping the physical environment.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

ECON

828

Antitrust and Trade Regulation

Crosslisted as *LAW 628G*

[LINK \(http://bulletin.unl.edu/courses/ECON/828\)](http://bulletin.unl.edu/courses/ECON/828)

Control of business activities through the federal antitrust laws. Emphasis on monopolies, joint ventures, pricefixing, boycotts, resale price maintenance, exclusive dealing and tying arrangements, territorial restrictions, and mergers.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

ECON

829**Unfair Competition**Crosslisted as *LAW 645G*[LINK \(http://bulletin.unl.edu/courses/ECON/829\)](http://bulletin.unl.edu/courses/ECON/829)

Federal and state statutory provisions and common law doctrines restricting unfair methods of competition. Includes the law of trademarks, trade secrets, misappropriation, false advertising, disparagement, and the role of the FTC in regulating deceptive practices, together with brief introductions to copyright and patent law.

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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ECON

830**Products Liability Seminar**Crosslisted as *LAW 793G*[LINK \(http://bulletin.unl.edu/courses/ECON/830\)](http://bulletin.unl.edu/courses/ECON/830)

Selected problems in products liability, with emphasis on research and writing projects analyzing the problems.

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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ECON

880**Labor Law**Crosslisted as *LAW 753G*[LINK \(http://bulletin.unl.edu/courses/ECON/880\)](http://bulletin.unl.edu/courses/ECON/880)

Legislative and judicial patterns of the modern labor movement; the objectives of labor combinations; the forms of pressure employed for their realization and prevention; strikes, boycotts, picketing, and lockouts; the legal devices utilized in carving out the permissible bounds of damage suits involving labor activity; the labor injunction; the National Labor Relations Board; the nature of collective bargaining agreements; extra legal procedure for settling labor disputes—the techniques of mediation, conciliation, and arbitration.

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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ECON

886**Administrative Law**Crosslisted as *LAW 633G*[LINK \(http://bulletin.unl.edu/courses/ECON/886\)](http://bulletin.unl.edu/courses/ECON/886)

Origin and growth of the administrative process, the development of administrative law and its impact upon traditional legal institutions, analysis of the types of federal and state administrative tribunals, their powers and functions, and problems of administrative procedure, judicial and other controls upon the administrative process.

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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EDAD

870**Constitutional Law I**Crosslisted as *LAW 609G*[LINK \(http://bulletin.unl.edu/courses/EDAD/870\)](http://bulletin.unl.edu/courses/EDAD/870)

Structure of the federal government, including the history and judicial interpretation of the Constitution, federalism, interstate commerce, due process, equal protection, and separation of powers.

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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EDAD

871**Constitutional Law II**Crosslisted as *LAW 732G*[LINK \(http://bulletin.unl.edu/courses/EDAD/871\)](http://bulletin.unl.edu/courses/EDAD/871)

Emphasizes protected individual civil liberties. The origin and modern applicability of the state action concept in constitutional litigation; the scope of congressional power to enforce the post Civil War amendments; freedom of speech, association, and press; and constitutional principles enforcing the first amendment's command that "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof."

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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EDAD

874**Torts I**Crosslisted as *LAW 503G*[LINK \(http://bulletin.unl.edu/courses/EDAD/874\)](http://bulletin.unl.edu/courses/EDAD/874)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours:	1-6
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDAD

956**Employment Law Seminar**Crosslisted as *LAW 759G*[LINK \(http://bulletin.unl.edu/courses/EDAD/956\)](http://bulletin.unl.edu/courses/EDAD/956)

Selected current national and state legal issues pertaining to private and public employment.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

959**Law and Educational Administration**Crosslisted as *LAW 695G*[LINK \(http://bulletin.unl.edu/courses/EDAD/959\)](http://bulletin.unl.edu/courses/EDAD/959)

Current legal issues of national significance relating to educational institutions; analysis of constitutional provisions, statutes, and court decisions affecting education; separation of church and state; rights of equality; student rights, responsibilities, and discipline; application of criminal and juvenile provisions; use of school property; control of the curriculum and extracurricular activities; contractual and tort liability; hiring, collective actions, tenure, outside activities, discharge, and retirement of teachers; confidentiality; accrediting agencies; and similar current legal matters.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

963**Legislation Seminar**Crosslisted as *LAW 777G*[LINK \(http://bulletin.unl.edu/courses/EDAD/963\)](http://bulletin.unl.edu/courses/EDAD/963)

Development of further skills in drafting and interpreting statutes, understanding legislative processes and decision making, and evaluating the role of legislation in governmental regulation. Opportunity for in-depth study of subjects pertaining to or involving legislation, centering on subjects considered by the Nebraska Legislature and the Nebraska legislative process.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

964**Local Government Law**Crosslisted as *LAW 788G*[LINK \(http://bulletin.unl.edu/courses/EDAD/964\)](http://bulletin.unl.edu/courses/EDAD/964)

Law of local government units with emphasis on current problems in the operation and administration of local government, models and theories of local government.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

968**Education Law Seminar**Crosslisted as *LAW 621G*[LINK \(http://bulletin.unl.edu/courses/EDAD/968\)](http://bulletin.unl.edu/courses/EDAD/968)

Selected current national and state legal issues pertaining to education.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

970**Criminal Law**Crosslisted as *LAW 508G*[LINK \(http://bulletin.unl.edu/courses/EDAD/970\)](http://bulletin.unl.edu/courses/EDAD/970)

Substantive criminal law, focusing on the theoretical foundations, general principles, and doctrines that govern the rules of liability and defenses, both in the common law tradition and under the Model Penal Code.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

971**Evidence**Crosslisted as *LAW 646G*[LINK \(http://bulletin.unl.edu/courses/EDAD/971\)](http://bulletin.unl.edu/courses/EDAD/971)

Relevancy and admission of evidence, including hearsay, opinions, privileges, other exclusionary rules, examination of witnesses, judicial notice, and physical evidence.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

973**Jurisprudence**Crosslisted as *LAW 672G*[LINK \(http://bulletin.unl.edu/courses/EDAD/973\)](http://bulletin.unl.edu/courses/EDAD/973)

What is good and what is bad about law; the judicial process; principal schools of jurists; theories of the nature of law and the legal order; the American social system and the law; obligations to obey or to disobey the law; and ideas of justice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

976**Legal Control of Discrimination**Crosslisted as *LAW 680G*[LINK \(http://bulletin.unl.edu/courses/EDAD/976\)](http://bulletin.unl.edu/courses/EDAD/976)

Selected legal issues pertaining to the legal control of discrimination.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

977**Constitutional History**Crosslisted as *LAW 619/619G*[LINK \(http://bulletin.unl.edu/courses/EDAD/977\)](http://bulletin.unl.edu/courses/EDAD/977)

American constitutional history with a focus on "transformative" moments at which the Constitution and the nature of American politics and government changed. American Revolution and the framing of the Constitution and Bill of Rights, Civil War and Reconstruction, and the New Deal. Exploration of the courts and how they stood on history and original intent when they interpret the Constitution.

Credit Hours: 1-4

Course Format: Lecture

Campus:

Course Delivery: Classroom

EDAD

978**Mass Communications Law**Crosslisted as *LAW 649G*[LINK \(http://bulletin.unl.edu/courses/EDAD/978\)](http://bulletin.unl.edu/courses/EDAD/978)

In-depth focus on the first amendment. Includes legal distinctions between the print and broadcast media, free press and fair trial, access to media, and licit and illicit ideas.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

IMSE

801**Products Liability**Crosslisted as *LAW 755G*[LINK \(http://bulletin.unl.edu/courses/IMSE/801\)](http://bulletin.unl.edu/courses/IMSE/801)

Liability issues arising out of manufacturing defects, design defects and warning defects in various product categories. Specific issues related to

Credit Hours: 3

Course Format: Lecture 3

product liability, such as identifying proper defendants, establishing causation and the issue of post-sale warnings. Broader policy questions about the role of litigation versus regulation in a democracy and a market economy.

Campus:
Course Delivery: Classroom

LAW
501G **Contracts I**

[LINK \(http://bulletin.unl.edu/courses/LAW/501G\)](http://bulletin.unl.edu/courses/LAW/501G)

When taken for 6 credits, includes both [LAW 501G](http://bulletin.unl.edu/courses/LAW/501G) (<http://bulletin.unl.edu/courses/LAW/501G>) and [502G](http://bulletin.unl.edu/courses/LAW/502G) (<http://bulletin.unl.edu/courses/LAW/502G>). Basic principles governing the creation, interpretation and enforcement of private agreements. Offer and acceptance, consideration, the effect of changed or unforeseen circumstances, conditions and remedies.

Credit Hours: 3-6
Max credits per degree: 6
Campus:
Course Delivery: Classroom

LAW
502G **Contracts II**

[LINK \(http://bulletin.unl.edu/courses/LAW/502G\)](http://bulletin.unl.edu/courses/LAW/502G)

For course description, see [LAW 501G](http://bulletin.unl.edu/courses/LAW/501G) (<http://bulletin.unl.edu/courses/LAW/501G>).

Credit Hours: 3-6
Max credits per degree: 6
Campus:
Course Delivery: Classroom

LAW
505G **Property I**

[LINK \(http://bulletin.unl.edu/courses/LAW/505G\)](http://bulletin.unl.edu/courses/LAW/505G)

Problems in possession, gifts of personal property, bona fide purchasers of personal property, estates in land, landlord and tenant, the modern land transaction, controlling the use of land, easements, licenses and equitable servitudes and constitutional limitations on the power of government to restrict individual economic liberties.

Credit Hours: 3-6
Max credits per degree: 6
Campus:
Course Delivery: Classroom

LAW
506G **Property II**

[LINK \(http://bulletin.unl.edu/courses/LAW/506G\)](http://bulletin.unl.edu/courses/LAW/506G)

For course description, see [LAW 505G](http://bulletin.unl.edu/courses/LAW/505G) (<http://bulletin.unl.edu/courses/LAW/505G>).

Credit Hours: 3-6
Max credits per degree: 6
Campus:
Course Delivery: Classroom

LAW
513G **Foundational Legal Skills: Research, Writing and Professionalism**

[LINK \(http://bulletin.unl.edu/courses/LAW/513G\)](http://bulletin.unl.edu/courses/LAW/513G)

The emphasis of this course is on the development of legal research and writing skills; writing is the lawyer's most commonly used skill, and effective writing rests on effective research. Communicating like a lawyer, however, means not only communicating professionally but also conducting oneself ethically. In addition to providing sustained and intensive instruction on legal research and writing, this course introduces students to many facets of professionalism and to the skills necessary to make ethical and professional choices.

Credit Hours: 2
Course Format: Lecture 2
Campus:
Course Delivery: Classroom

LAW
Foundational Legal Skills: Research, Writing, and Professionalism

[LINK \(http://bulletin.unl.edu/courses/LAW/514G\)](http://bulletin.unl.edu/courses/LAW/514G)

514G

The emphasis of this course is on the development of legal research and writing skills; writing is the lawyer's most commonly used skill, and effective writing rests on effective research. Communicating like a lawyer, however, means not only communicating professionally but also conducting oneself ethically. In addition to providing sustained and intensive instruction on legal research and writing, this course introduces students to many facets of professionalism and to the skills necessary to make ethical and professional choices.

Credit Hours:	4
Course Format:	Lecture 4
Campus:	
Course Delivery:	Classroom

LAW 516G Civil Procedure I

[LINK \(http://bulletin.unl.edu/courses/LAW/516G\)](http://bulletin.unl.edu/courses/LAW/516G)

This course is a prerequisite for: [LAW 729G \(http://bulletin.unl.edu/courses/LAW/729G\)](http://bulletin.unl.edu/courses/LAW/729G)

Introduction to federal and state court organization, jurisdiction, and procedure. Emphasis on pre-trial, trial, and post-trial procedures, including pleading, enforcement of judgements, motion practice, appellate review, and the effects of res judicata and collateral estoppel.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW 517G Civil Procedure II

[LINK \(http://bulletin.unl.edu/courses/LAW/517G\)](http://bulletin.unl.edu/courses/LAW/517G)

For course description, see [LAW 516G \(http://bulletin.unl.edu/courses/LAW/516G\)](http://bulletin.unl.edu/courses/LAW/516G).

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW 518G International Perspectives in the U.S. Legal System: Practicing Law in a Global Legal Environment

Prepare for legal practice in a global legal environment, including an understanding of how to handle the treaty and foreign law issues that can arise in the practice of virtually every area of law. The sources of international law and the relationship of international law (particularly treaties) to the U.S. legal system. An overview of conflict of law rules, a survey of differences in the major legal systems of the world, and comparative examination of how foreign legal systems regulate other areas of law studied in the first year, such as torts, contracts, property, and civil procedure.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

LAW 601G Criminal Responsibility in Anglo-American History

[LINK \(http://bulletin.unl.edu/courses/LAW/601G\)](http://bulletin.unl.edu/courses/LAW/601G)

Narrative account of ideas and practices surrounding the attribution of criminal responsibility in America from colonial to modern times. Tensions between formal rules of law and social attitudes, manner in which tensions relate to criminal trial history, relationship between evolution of punishment ideas/practices and evolution of criminal justice. Broad-based social, political and intellectual history of American criminal justice.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

LAW 602G Elder Law

[LINK \(http://bulletin.unl.edu/courses/LAW/602G\)](http://bulletin.unl.edu/courses/LAW/602G)

This course will address the legal concerns and issues facing the rapidly growing subpopulation of older adults. Topics covered in the course will

Credit Hours:	3
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include the legal and social science aspects of: ethical issues related to client legal capacity, health care decision making, Medicare, Medicaid, Social Security, long-term informal and formal care (including guardianship), financial aspects of aging, ageism, and elder maltreatment.

Course Format: Lecture 3

Course Delivery: Classroom

LAW **Law Office Management**

[LINK \(http://bulletin.unl.edu/courses/LAW/603\)](http://bulletin.unl.edu/courses/LAW/603)

603/603G

Issues confronted by the small firm and/or sole practitioner. Firm organization, e.g., partnerships, professional corporations, limited liability companies, limited liability partnerships and partnership and shareholder agreements. The role of partners, shareholders, associates and non-lawyer staff, e.g., law clerks paralegals and legal secretaries. Ethical issues involved in the marketing of legal services, firm financial matters and dealing with clients within the organizational structure. Managing the legal product as well as physical resource needs such as traditional libraries through electronic information resources.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

LAW **Appellate Advocacy**

[LINK \(http://bulletin.unl.edu/courses/LAW/610G\)](http://bulletin.unl.edu/courses/LAW/610G)

610G

Appellate practice and procedure; exploring the federal and Nebraska appellate practice, including the mechanics and timing of appeals, with emphasis on written and oral advocacy. Students draft appellate briefs, prepare other appeal-related documents, and participate in an oral argument.

Credit Hours: 3

Campus:

Course Delivery: Classroom

LAW **International Litigation and Arbitration**

[LINK \(http://bulletin.unl.edu/courses/LAW/611G\)](http://bulletin.unl.edu/courses/LAW/611G)

611G

Issues that United States courts face when international disputes arise. Jurisdiction, international service, international evidence gathering, extraterritorial application of United States domestic law, the act of state doctrine, foreign sovereign immunity, and enforcement of international judgements. Resolving conflicts through arbitration and comparative perspectives about methods of resolving international commercial disputes.

Credit Hours: 3

Campus:

Course Delivery: Classroom

LAW **Electronic Commerce**

[LINK \(http://bulletin.unl.edu/courses/LAW/613G\)](http://bulletin.unl.edu/courses/LAW/613G)

613G

Participation on Blackboard required. There are no prerequisites, although students who have taken a Uniform Commercial Code course will find that helpful. Issues arising in electronic commerce, including setting up a business in cyberspace, the privacy issues associated with online data collection, and the laws governing the sale of goods, licensing, secured transactions and payments in an electronic environment. A variety of state, federal and international legislation and directives will be considered, including the Communications Decency Act, the Digital Millennium Copyright Act, the Fair Credit Reporting Act, the Electronic Communications Privacy Act, the USA Patriot Act of 2001, the financial privacy provisions of the Gramm-Leach-Bliley Act, digital signature statutes and the Children's Online Privacy Protection Act.

Credit Hours: 3

Campus:

Course Delivery: Classroom

LAW **Election Law**

[LINK \(http://bulletin.unl.edu/courses/LAW/614G\)](http://bulletin.unl.edu/courses/LAW/614G)

614G

Legal doctrine and policy as it relates to the democratic political process. Text of the Constitution and federal legislation that governs voting and the

Credit Hours: 3

Campus:

political process, the decisions of the United States Supreme Court interpreting the Constitution and federal statutes, and the federal regulations that impact our democracy. Campaign finance, the Voting Rights Act, "one person, one vote," racial and partisan gerrymandering, direct democracy, the regulation of political parties, and the Help America Vote Act. Where the law of our democracy has been, where it is today, and where it might be headed.

Course Delivery: Classroom

LAW
616G International Human Rights Law

[LINK \(http://bulletin.unl.edu/courses/LAW/616G\)](http://bulletin.unl.edu/courses/LAW/616G)

Students previously enrolled in Seminar (707G) may not enroll in this course. Historical, political, religious and philosophical roots of international human rights law, its development over the course of the last century and its contemporary role in international affairs. May include: current attempts to strengthen U.N. fact-finding and implementation mechanisms; the relationship between U.N. peacekeeping and peacemaking and international humanitarian law; the activities of regional human rights systems; the effect of the United State's recent signature and ratification of U.N. human rights conventions and the role of such conventions and international human rights law through the criminal process; and military intervention to protect human rights victims, including NATO's intervention in Kosovo.

Credit Hours: 3

Campus:

Course Delivery: Classroom

LAW
617G Construction Practice

[LINK \(http://bulletin.unl.edu/courses/LAW/617G\)](http://bulletin.unl.edu/courses/LAW/617G)

Major facets of the construction process. Project concept stage, terms and provisions of the construction contract, contract execution stage, performance stage, disputes and relationships among the contracting parties, and architect-engineer.

Credit Hours: 3

Course Format: Lecture

Course Delivery: Classroom

LAW
620G Corporations Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/620G\)](http://bulletin.unl.edu/courses/LAW/620G)

Prereqs:
[LAW 632 \(http://bulletin.unl.edu/courses/LAW/632\)/G](http://bulletin.unl.edu/courses/LAW/632) or permission;
[LAW 789 \(http://bulletin.unl.edu/courses/LAW/789\)/G](http://bulletin.unl.edu/courses/LAW/789) is not a requirement

Selected issues in corporate and securities law.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
623G Environmental Ethics and Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/623G\)](http://bulletin.unl.edu/courses/LAW/623G)

Key theories in environmental ethics and environmental law; enhanced ability to analyze critically and communicate clearly and persuasively in an interdisciplinary forum through writing, informal discussion, and formal presentations; and a deeper understanding of sustainability as a principle of environmental law and ethics especially in agriculturally dominated landscapes. Nature of ethics and its relation to law; climate change; bio-fuels with implications for farm communities, water resources, and food supplies; and genetically modified organisms (GMO's).

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

LAW
624G Immigration Law

[LINK \(http://bulletin.unl.edu/courses/LAW/624G\)](http://bulletin.unl.edu/courses/LAW/624G)

History of immigration to the United States, federal authority to regulate immigration, immigrant visas, nonimmigrant visas, deportation, political

Credit Hours: 1-4

Campus:

asylum, citizenship, rights of aliens in the United States, and ethical issues for immigration lawyers.

Course Delivery: Classroom

LAW
625G Copyright Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/625G\)](http://bulletin.unl.edu/courses/LAW/625G)

The protection of literary, artistic, musical, and audiovisual works under the laws of copyright and unfair competition. Rights in computer programs, characters, titles, and useful articles. Home recording, photocopying, computer uses/Internet, and public performance.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

LAW
626G Emerging Family Law Issues

[LINK \(http://bulletin.unl.edu/courses/LAW/626G\)](http://bulletin.unl.edu/courses/LAW/626G)

This course focuses on cutting-edge legal issues related to family law and policy. Topics may include the regulation of reproduction, sexuality and family formation, but will largely be dictated by family law controversies in the courts at the time of the course. Family Law is not a pre-requisite for this course.

Credit Hours: 3
Course Format: Lecture 2.5
Campus:
Course Delivery: Classroom

LAW
627G Payment Systems

[LINK \(http://bulletin.unl.edu/courses/LAW/627G\)](http://bulletin.unl.edu/courses/LAW/627G)

Negotiable instruments, bank collections, negotiable documents, selected aspects of sales, and products liability.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

LAW
629G Accounting for Lawyers

[LINK \(http://bulletin.unl.edu/courses/LAW/629G\)](http://bulletin.unl.edu/courses/LAW/629G)

Those who had accounting as undergraduates may enter only with the permission of the instructor. Basic accounting principles and the interaction of law and accounting. Understanding of accounting statements and terminology likely encountered in legal practice.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

LAW
631G Criminal Procedure

[LINK \(http://bulletin.unl.edu/courses/LAW/631G\)](http://bulletin.unl.edu/courses/LAW/631G)

Basic problems of criminal procedure with emphasis on the fourth, fifth, and sixth amendments to the United States Constitution and their impact on the criminal justice system.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

LAW
632G Business Associations

[LINK \(http://bulletin.unl.edu/courses/LAW/632G\)](http://bulletin.unl.edu/courses/LAW/632G)

This course is a prerequisite for: [LAW 636G \(http://bulletin.unl.edu/courses/LAW/636G\)](http://bulletin.unl.edu/courses/LAW/636G), [LAW 658G \(http://bulletin.unl.edu/courses/LAW/658G\)](http://bulletin.unl.edu/courses/LAW/658G), [LAW 687G \(http://bulletin.unl.edu/courses/LAW/687G\)](http://bulletin.unl.edu/courses/LAW/687G), [LAW 723G \(http://bulletin.unl.edu/courses/LAW/723G\)](http://bulletin.unl.edu/courses/LAW/723G), [LAW 746G \(http://bulletin.unl.edu/courses/LAW/746G\)](http://bulletin.unl.edu/courses/LAW/746G), [LAW 789G \(http://bulletin.unl.edu/courses/LAW/789G\)](http://bulletin.unl.edu/courses/LAW/789G)

Introduction to the law of business associations. The relationships among the various participants in business entities and, to a lesser extent, the

Credit Hours: 3-4
Max credits per degree: 4
Course Format: Lecture
Campus:
Course Delivery: Classroom

relationships between business entities and outsiders. Corporations and partnerships.

LAW
634G

Oil and Gas Law

[LINK \(http://bulletin.unl.edu/courses/LAW/634G\)](http://bulletin.unl.edu/courses/LAW/634G)

Legal issues encountered in the development of oil and gas reserves.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
635G

Family Law Practice

[LINK \(http://bulletin.unl.edu/courses/LAW/635G\)](http://bulletin.unl.edu/courses/LAW/635G)

Prereqs:

[LAW 630G \(http://bulletin.unl.edu/courses/LAW/630G\)](http://bulletin.unl.edu/courses/LAW/630G)

A limited enrollment class. Students required to write a paper on selected family law topics with emphasis on interdisciplinary research. Family law practice skills such as interviewing, counseling, negotiations, mediation, drafting, evaluating property, tax problems, litigation, working with other professionals, and interacting with juveniles.

Credit Hours:	1-5
Campus:	
Course Delivery:	Classroom

LAW
636G

Corporate Mergers and Acquisitions

[LINK \(http://bulletin.unl.edu/courses/LAW/636G\)](http://bulletin.unl.edu/courses/LAW/636G)

Prereqs:

[LAW 632G \(http://bulletin.unl.edu/courses/LAW/632G\)](http://bulletin.unl.edu/courses/LAW/632G)

Corporate mergers and acquisitions, including tender offers. The history of corporate acquisitions, their rationales, the legal duties of the officers and directors involved, different ways to structure a corporate acquisition, issues in negotiation and contracting, and securities law issues.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW
639G

Wills and Trusts

[LINK \(http://bulletin.unl.edu/courses/LAW/639G\)](http://bulletin.unl.edu/courses/LAW/639G)

Intestate succession and related matters, execution of wills, revocation of wills, problems created by the time gap in wills, limitations on the power to devise, construction of wills (mistake and ambiguity), the elements of trust, formalities in the creation of a trust, the interest of the beneficiary, charitable trusts, and problems of trust administration.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
642G

Conflict of Laws

[LINK \(http://bulletin.unl.edu/courses/LAW/642G\)](http://bulletin.unl.edu/courses/LAW/642G)

Legal and constitutional concepts involved in choosing the applicable law when the essential facts of a case are not confined to one state or national sovereignty.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
643G

Advanced Torts

[LINK \(http://bulletin.unl.edu/courses/LAW/643G\)](http://bulletin.unl.edu/courses/LAW/643G)

Selected topics in tort law. Advanced class in tort law, considering the general legal theory of tort, as well as specific topics not studied in detail

Credit Hours:	1-4
Campus:	

during the required first-year torts class. May include tort claims other than the intentional torts, negligence, and products liability--i.e., defamation, nuisance, privacy, abuse of legal process, interference with advantageous relationships, tort claims implied from statutes, the prima facie tort, and others. May also include topics relating to the functioning of tort law in social context--e.g., the efficiency with which tort litigation accomplishes its apparent purpose, alternative legal mechanisms to reduce risk or promote safety, alternative systems of compensating for harms, legislative tort reform initiatives, and others.

Course Delivery: Classroom

LAW
644G Secured Transactions

[LINK \(http://bulletin.unl.edu/courses/LAW/644G\)](http://bulletin.unl.edu/courses/LAW/644G)

Creditors' remedies outside of bankruptcy, secured financing of personal property, and the impact of federal bankruptcy law on secured creditors.

Credit Hours: 1-4

Course Format: Lecture

Campus:

Course Delivery: Classroom

LAW
647G Employment Law

[LINK \(http://bulletin.unl.edu/courses/LAW/647G\)](http://bulletin.unl.edu/courses/LAW/647G)

Analysis of the employment relationship as it has developed outside of the collective bargaining context. History and current status of the employment relationship, including discharge-of-will, occupational safety and health, minimum wage/maximum hour legislation, unemployment compensation and noncompetition agreements.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
650G Taxation-International

[LINK \(http://bulletin.unl.edu/courses/LAW/650G\)](http://bulletin.unl.edu/courses/LAW/650G)

Prereqs:
[LAW 637G \(http://bulletin.unl.edu/courses/LAW/637G\)](http://bulletin.unl.edu/courses/LAW/637G).

Introduction to the US federal income tax rules that apply to US persons (including corporations, partnerships and individuals) living or doing business abroad or receiving income from foreign sources, and to foreign persons living or doing business in the US or receiving income from US sources. Effect of US tax treaties on these rules.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
652G Comparative Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/652G\)](http://bulletin.unl.edu/courses/LAW/652G)

Introduction to major families of legal systems outside the common law orbit. Emphasis is on Western European and Socialist (Marxist) legal systems; others treated less intensively.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
653G Refugee and Asylum Law and Practice

[LINK \(http://bulletin.unl.edu/courses/LAW/653G\)](http://bulletin.unl.edu/courses/LAW/653G)

Prereqs:
Completion of the survey course in immigration law is helpful, but not required

Each student will be required to write a 15 page paper for the course. This paper requirement will not fulfill the Law College seminar requirement for graduation. Introduces students to US refugee and asylum law. Refugee issues in the context of domestic and international political environments.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

Asylum reform, gender-based persecution, persecution of lesbians and gays, deficiencies in international and domestic refugee law, and firm resettlement of displaced persons. With an interdisciplinary focus, interplay among political, social, economic, cultural and psychological phenomena as refugees, governments of host countries, and international and nongovernmental organizations interact in the context of ongoing crises around the world. Contrasting viewpoints discussed. Along with relevant substantive law and procedure, participation in simulations designed to teach practical skills necessary to an asylum and refugee law practice, including working with translators, interviewing and case advocacy. Asylum cases serve as the foundation for role play exercises.

LAW
654G **Comparative Law**

[LINK \(http://bulletin.unl.edu/courses/LAW/654G\)](http://bulletin.unl.edu/courses/LAW/654G)

Major foreign legal systems and their impact on US law, lawyers and clients. Compares the Anglo-American common law system with the civil law systems of continental Europe; surveys other major foreign legal systems (e.g. Muslim, Hindu, Japanese, Chinese, African and Socialist legal systems); and addresses proof and pleading problems that arise when foreign law is at issue in US courts.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
655G **Commercial Law: Sales**

[LINK \(http://bulletin.unl.edu/courses/LAW/655G\)](http://bulletin.unl.edu/courses/LAW/655G)

Law governing the sale of goods with emphasis on Article 2 of the Uniform Commercial Code. Includes: contract formation; acceptance and rejection of goods; warranties; risk of loss; remedies, including non-Uniform Commercial Code remedies in consumer transactions; documentary sales and leases.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
656G **Banking Law**

[LINK \(http://bulletin.unl.edu/courses/LAW/656G\)](http://bulletin.unl.edu/courses/LAW/656G)

Law of commercial banking. History and structure of the American banking system; the formation of a new bank; the regulation of traditional banking activity, including lending limitations; reserve requirements; capital adequacy; equal credit laws; failed banks; branch banking; and future trends in banking.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
657G **Empirical Legal Studies**

[LINK \(http://bulletin.unl.edu/courses/LAW/657G\)](http://bulletin.unl.edu/courses/LAW/657G)

Students fulfill the course requirements through writing a paper, participating in class, presenting their research to the class, and completing several exercises. Students will learn to use computer statistical software packages (SPSS) for these exercises.

Introduction to one of the fastest growing areas of legal scholarship and practice — the use of empirical techniques in research and litigation. Learning how to be sophisticated and critical consumers of empirical research that lawyers and experts often use to resolve legal cases and controversies, to shape legislation, and to use as argument in public policy debates. Introduction to survey research methodology, designing and conducting experiments, data gathering and analysis through descriptive and inferential statistics. In addition to discussing how to perform these techniques, students read cases and articles in which each of the techniques has played an important role. The course introduces law students to the social sciences through a "hands on" approach. Students will collect and analyze their own data by completing small research projects related to their areas of interest. Class sessions include discussion of social science and legal materials, lectures on the basics of empirical analysis, assistance with

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

analyzing statistical data with computer packages, assistance with interpreting data, and student presentations.

LAW
658G

Clinical Practice–Entrepreneurship

[LINK \(http://bulletin.unl.edu/courses/LAW/658G\)](http://bulletin.unl.edu/courses/LAW/658G)

Prereqs:
Law 632G and 637G.

Students, under close faculty supervision, advise and represent startup business clients in a variety of early-stage legal matters, including entity formation, contract drafting and review, intellectual property protection, real estate, financing, regulatory, compliance and other transactional matters. Participation in a concurrent seminar concentrating on the development of skills necessary to effectively advise entrepreneurial clients is required. Limited enrollment pursuant to a written application process that occurs in the prior semester.

Credit Hours:	6
Course Format:	Lab 5
Course Delivery:	Classroom

LAW
659G

State Constitutional Law

[LINK \(http://bulletin.unl.edu/courses/LAW/659G\)](http://bulletin.unl.edu/courses/LAW/659G)

Constitutions of the individual states, including: state expansion of individual rights, state–federal constitutional relationships, state innovations, “interpretation” theories in the state context, constitutions in contrast with statutes, balance of powers, processes of revision, and procedures relevant to the practitioner.

Credit Hours:	1–4
Campus:	
Course Delivery:	Classroom

LAW
660G

Science and the Law

[LINK \(http://bulletin.unl.edu/courses/LAW/660G\)](http://bulletin.unl.edu/courses/LAW/660G)

Analysis of the role of science in the law. This class will explore issues such as biotechnology, computers, scientific evidence, regulatory approval, antitrust, and environmental law to explore the intersection of science, technology, and the effect on the law and legal decision making.

Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW
661G

Aviation Law

[LINK \(http://bulletin.unl.edu/courses/LAW/661G\)](http://bulletin.unl.edu/courses/LAW/661G)

Public international air law, with emphasis on the Chicago Convention of 1944 and the International Civil Aviation Organization, the exchange of air traffic rights, and the aviation security treaties. Selected areas of private international air law including international air carrier liability under the Warsaw and Montreal Conventions. In addition to international aviation law, this course also examines various aspects of U.S. aviation law including liability and Federal regulation of the aviation industry.

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Classroom

LAW
662G

International Intellectual Property

[LINK \(http://bulletin.unl.edu/courses/LAW/662G\)](http://bulletin.unl.edu/courses/LAW/662G)

Overview of the United States laws of copyright, patent, trade secret and trademark for students of all backgrounds and discussions of the laws and mechanisms to protect intellectual property rights abroad including analysis of all major international treaties and conventions. This course will cover not only the legal and regulatory schemes but also the policy implications. No prior course in intellectual property or science background is requisite.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW

Gender, Race, and Class Issues in the Law[LINK \(http://bulletin.unl.edu/courses/LAW/664\)](http://bulletin.unl.edu/courses/LAW/664)**664/664G**

Credit toward the degree may be earned in only one of: Gender Issues in the Law ([LAW 771 \(http://bulletin.unl.edu/courses/LAW/771/771G\)](http://bulletin.unl.edu/courses/LAW/771/771G)) and ([LAW 664 \(http://bulletin.unl.edu/courses/LAW/664/664G\)](http://bulletin.unl.edu/courses/LAW/664/664G)), but not both. The role of gender, race, and class in shaping socio-legal relationships and policies. Selected procedural substantive areas of the law that affect and are affected by gender, race, and class. Employment, property, torts, constitutional law and contractual relationships, and the complex relationship between gender, race, class, and the law.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW

International Trade Law and Policy Seminar[LINK \(http://bulletin.unl.edu/courses/LAW/665G\)](http://bulletin.unl.edu/courses/LAW/665G)**665G****Prereqs:**

[LAW 671 \(http://bulletin.unl.edu/courses/LAW/671/G\)](http://bulletin.unl.edu/courses/LAW/671/G) preferred; or [LAW 640 \(http://bulletin.unl.edu/courses/LAW/640/G\)](http://bulletin.unl.edu/courses/LAW/640/G)

Selected issues of international trade law and policy. Several prominent issues of international trade law and policy, including trade in agricultural goods, new issues facing the international trading system, and other topics selected by students for research papers. Visiting scholars, government officials, or faculty from other departments at the university may make presentations to the seminar.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW

International Environmental Law[LINK \(http://bulletin.unl.edu/courses/LAW/666G\)](http://bulletin.unl.edu/courses/LAW/666G)**666G**

Analysis of the legal rules and institutions used to address international environmental issues. Includes the sources and nature of international environmental law, extraterritorial application of domestic environmental law, transboundary pollution, sustainable development, protection of the global environment, and the impacts of international trade policy and international development policy on the environment.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW

Construction Law[LINK \(http://bulletin.unl.edu/courses/LAW/667G\)](http://bulletin.unl.edu/courses/LAW/667G)**667G**

Legal principles in the construction area. Legal and equitable issues which result from the construction relationship and disputes relating to that relationship.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

LAW

International Trade and Transactions[LINK \(http://bulletin.unl.edu/courses/LAW/668G\)](http://bulletin.unl.edu/courses/LAW/668G)**668G**

Regulation of international trade and investment by individuals, governments (particularly the United States) and international agreements.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW

Research in a Selected Field I[LINK \(http://bulletin.unl.edu/courses/LAW/669G\)](http://bulletin.unl.edu/courses/LAW/669G)**669G**

Before registering for this course, a student must (1) obtain the approval of

Credit Hours:	1-3
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the faculty member involved and (2) submit the Research in a Selected Field form to the College of Law registrar. Absent the prior approval of the dean, no student may take more than 6 hours of Research in a Selected Field and/or Psycholegal Research. Individual study under the supervision of a faculty member.

Campus:
Course Delivery: Classroom

LAW
670G **Research in a Selected Field II**

[LINK \(http://bulletin.unl.edu/courses/LAW/670G\)](http://bulletin.unl.edu/courses/LAW/670G)

Before registering for this course, a student must (1) obtain the approval of the faculty member involved and (2) submit the Research in a Selected Field form to the College of Law registrar. Absent the prior approval of the dean, no student may take more than 6 hours of Research in a Selected Field and/or Psycholegal Research. For course description, see [LAW 669G](http://bulletin.unl.edu/courses/LAW/669G) (<http://bulletin.unl.edu/courses/LAW/669G>).

Credit Hours: 1-3
Campus:
Course Delivery: Classroom

LAW
671G **International Trade Law**

[LINK \(http://bulletin.unl.edu/courses/LAW/671G\)](http://bulletin.unl.edu/courses/LAW/671G)

Students who have taken [LAW 668G](http://bulletin.unl.edu/courses/LAW/668G) (<http://bulletin.unl.edu/courses/LAW/668G>) may not enroll in this course. This class may be taught in alternate years with International Trade and Transactions. Central theme of this field of law is the tension between generally accepted economic theories which support free trade as a means of increasing economic efficiency and raising standards of living for all trading partners, and the non-economic objectives that must be balanced against those principles. Includes: international monetary, development and trade policy; customs law, legal restraints on fair and unfair international trade practices; international transfers of intellectual property rights; and the regulation of foreign investment.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

LAW
673G **International Business Transactions**

[LINK \(http://bulletin.unl.edu/courses/LAW/673G\)](http://bulletin.unl.edu/courses/LAW/673G)

Students who have taken [LAW 668G](http://bulletin.unl.edu/courses/LAW/668G) (<http://bulletin.unl.edu/courses/LAW/668G>) may not enroll in this course. Regulation of international trade by private parties through contractual arrangements. Contract formation and interpretation; dispute resolution; letters of credit and other transfers of payment; insurance; transportation; and countertrade arrangements. Contract negotiating and drafting exercise.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

LAW
674G **Juvenile Law**

[LINK \(http://bulletin.unl.edu/courses/LAW/674G\)](http://bulletin.unl.edu/courses/LAW/674G)

Investigation of the relationship between children, the family, and the state. Both public and private law considerations with emphasis on the juvenile justice system and general considerations of children's constitutional rights.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

LAW
675G **Advanced Legal Writing**

[LINK \(http://bulletin.unl.edu/courses/LAW/675G\)](http://bulletin.unl.edu/courses/LAW/675G)

Legal writing and analysis and experience with a variety of forms of legal writing. Topics selected from appellate brief writing and oral advocacy, interpreting and drafting statutes and rules, drafting jury instructions, drafting contracts, drafting pleadings, motion practice, drafting interrogatories, general correspondence, opinion letters, drafting wills and trusts, and advanced legal research.

Credit Hours: 1-4
Campus:
Course Delivery: Classroom

LAW
677G

Toxic Substances and Hazardous Waste Law

[LINK \(http://bulletin.unl.edu/courses/LAW/677G\)](http://bulletin.unl.edu/courses/LAW/677G)

[LAW 697G \(http://bulletin.unl.edu/courses/LAW/697G\)](http://bulletin.unl.edu/courses/LAW/697G) is not a prerequisite for this course. Students who have taken [LAW 641G \(http://bulletin.unl.edu/courses/LAW/641G\)](http://bulletin.unl.edu/courses/LAW/641G) may not enroll in this course. Legal problems associated with the control of hazardous and toxic substances. Toxic torts and regulatory actions to protect private and public interests.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
679G

Federal Regulation of Food Safety

[LINK \(http://bulletin.unl.edu/courses/LAW/679G\)](http://bulletin.unl.edu/courses/LAW/679G)

This course examines the federal laws and regulations that govern food safety and food labeling shared by federal agencies, including the Food and Drug Administration, U.S. Department of Agriculture, U.S. Department of Commerce, and U.S. Environmental Protection Agency. Students will have the opportunity to learn the history of federal food safety laws and enforcement and will discuss case studies highlighting current issues in the news, e.g., salmonella contamination of eggs, tort liability for "defective" foods, regulation of biotechnology use in foods, and the science underlying food safety regulation and food production. The course will conclude with analysis of the policy goals and implementation of the FDA Food Safety Modernization Act signed into law by President Obama on January 4, 2011, which provides for a new system of federal oversight of domestically produced and imported foods.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

LAW
681G

Cyberlaw

[LINK \(http://bulletin.unl.edu/courses/LAW/681G\)](http://bulletin.unl.edu/courses/LAW/681G)

Areas in which the law interacts with the Internet and the increasing digitization of information. Possible topics: commercial law issues arising out of e-commerce including the proposed Article 2B of the Uniform Commercial code on information licensing and various electronic signature statutes; intellectual property issues including the regulation of the Internet, the domain name as a trademark controversy, database protection schemes, and issues relating to online liability for copyright and trademark infringement; privacy issues such as encryption of data and access to personal identification data; criminal law issues involving cybercrimes (e-mail theft, cyberrape, etc.); and Y2K problems.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
682G

Legal Control of Discrimination Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/682G\)](http://bulletin.unl.edu/courses/LAW/682G)

Legal issues pertaining to the legal control of discrimination.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
683G

Patents and International Intellectual Property

[LINK \(http://bulletin.unl.edu/courses/LAW/683G\)](http://bulletin.unl.edu/courses/LAW/683G)

Two separate components; one involving patent law and one involving international intellectual property. The patent law component looks at some of the central issues of the protection and enforcement of patents with emphasis on the policy issues that arise from patent protection. Focus of the international intellectual property component is on private law. Materials emphasize issues that an American lawyer representing an American company should understand. Relative emphasis between patents and international intellectual property determined each term.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
684G

Bioethics and Law

[LINK \(http://bulletin.unl.edu/courses/LAW/684G\)](http://bulletin.unl.edu/courses/LAW/684G)

Role of law in controlling, shaping, and responding to scientific and technological developments in the field of medicine and the biological sciences. May include contraception, abortion, sterilization, artificial conception, genetic engineering, the right to refuse treatment, euthanasia, the right to treatment of defective newborns, organ transplantation, and experimentation with human subjects.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
685G

Capital Punishment

[LINK \(http://bulletin.unl.edu/courses/LAW/685G\)](http://bulletin.unl.edu/courses/LAW/685G)

Legal doctrine and policy regarding capital punishment in the United States. Draws heavily but not exclusively on decisions by the US Supreme Court. Includes: various Constitutional challenges and limitations according to Supreme Court decisions; aggravating and mitigating circumstances; jury selection and qualification; discriminatory application; the use of clinical testimony; and the role of counsel. Differs significantly from the Jurisprudence course that addresses capital punishment and directs primary attention to jurisprudential arguments regarding the justification of capital punishment in principle and in practice, with only secondary attention to a few of the central court cases. Court cases and legal doctrine and policy issues arising out of those court cases. Thus, the two courses are complimentary with relatively little overlap, and neither presupposes the other.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
686G

Gender Issues in the Law

[LINK \(http://bulletin.unl.edu/courses/LAW/686G\)](http://bulletin.unl.edu/courses/LAW/686G)

Prereqs:
[LAW 630G \(http://bulletin.unl.edu/courses/LAW/630G\)](http://bulletin.unl.edu/courses/LAW/630G)

Critical review of the role of gender in shaping socio-legal relationships and policies. Examines selected procedural and substantive areas of the law that affect and are affected by gender. Includes, but are not limited to, employment, property, torts, the Constitution and contractual relationships. Emphasis on the complex relationship between gender, race and class.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
687G

Investment Companies and Investment Advisers

[LINK \(http://bulletin.unl.edu/courses/LAW/687G\)](http://bulletin.unl.edu/courses/LAW/687G)

Prereqs:
[LAW 632G \(http://bulletin.unl.edu/courses/LAW/632G\)](http://bulletin.unl.edu/courses/LAW/632G).

Pre- or coreq: [LAW 632 \(http://bulletin.unl.edu/courses/LAW/632/G\)](http://bulletin.unl.edu/courses/LAW/632/G). Survey of the regulation of mutual funds and investment advisers under the federal Investment Company and Investment Advisers Acts.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

LAW
688G

Sex-Based Discrimination

[LINK \(http://bulletin.unl.edu/courses/LAW/688G\)](http://bulletin.unl.edu/courses/LAW/688G)

Introduces two theoretical frameworks applicable to anti-discrimination law and uses them to examine efforts to curb discrimination against women and men. Feminist Legal Theory and Masculinities Theory are used as foundations through which students can analyze whether legal controls on discrimination are effective. Specific topics that may be discussed include the law as it is related to the military (male mandatory registration and female integration); obscenity (pornography and art); family (custody-related sex preferences and family structure); crime (rape and sex work); education (Title IX athletics and single-sex education); and employment (sex-specific

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

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LAW
690G

Real Estate Transactions

[LINK \(http://bulletin.unl.edu/courses/LAW/690G\)](http://bulletin.unl.edu/courses/LAW/690G)

Contracts for the sale of land; real estate financing including mortgages and installment land contracts, and more advanced devices such as sale leasebacks, ground leases, leasehold mortgages, equity participations, variable rate mortgages, and others; title examination and protection; shared facilities such as cooperatives, condominiums, and home owners associations.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
691G

Health Care Finance

[LINK \(http://bulletin.unl.edu/courses/LAW/691G\)](http://bulletin.unl.edu/courses/LAW/691G)

Institutional, economic, and legal dimensions of "health insurance". Although the course considers the interface between private and public insurance mechanism, the focus is on private sector developments in "managed care".

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW
692G

Modern Real Estate Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/692G\)](http://bulletin.unl.edu/courses/LAW/692G)

Legal aspects of commercial real estate practice including acquisition, disposition, financing, and management of commercial real estate entities such as apartment complexes, housing subdivisions, condominiums, and shopping centers. Land use controls.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
694G

Sports Law

[LINK \(http://bulletin.unl.edu/courses/LAW/694G\)](http://bulletin.unl.edu/courses/LAW/694G)

Selected legal issues affecting amateur and professional sports. May include applicability of antitrust, communications, contract, labor, and tax laws to professional sports; the ethical and professional aspects of player representation; the extra-governmental regulation of amateur athletics; and the internal organization of the professional sports leagues.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
696G

Client Interviewing and Counseling

[LINK \(http://bulletin.unl.edu/courses/LAW/696G\)](http://bulletin.unl.edu/courses/LAW/696G)

Introduction to the basics of legal interviewing (lawyer interaction with a client for the purpose of identifying the client's problem and gathering information on which the solution to that problem can be based) and counseling (a process in which lawyers help clients reach decisions). Class discussion of reading materials and videotaped demonstrations, and role play exercises.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
697/697G

Patent Law

[LINK \(http://bulletin.unl.edu/courses/LAW/697\)](http://bulletin.unl.edu/courses/LAW/697)

Introduction to the basic principles of the law of patents in the United States including the history, utility and function of the patent system; statutory and procedural requirements for patentability; recent case law; and patent enforcement mechanisms, remedies and defenses. Foundation in patent law

Credit Hours:	3
Course Format:	Lecture 3
Campus:	

for general legal practice that crosscuts all potential business client interests from individual inventors to small and large companies.

Course Delivery: Classroom

LAW
698G

Lands and Natural Resources

[LINK \(http://bulletin.unl.edu/courses/LAW/698G\)](http://bulletin.unl.edu/courses/LAW/698G)

Acquisition and disposition of the public domain; jurisdiction over public lands; withdrawals and reservations; mining and mineral leasing on public lands; range, forest, and wildlife management, recreation, and preservation.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
701G

Health Care Finance Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/701G\)](http://bulletin.unl.edu/courses/LAW/701G)

Analysis of specific issues in the design and control of market and governmental mechanisms for the diversification of risk.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
702G

International Trade Law and Policy

[LINK \(http://bulletin.unl.edu/courses/LAW/702G\)](http://bulletin.unl.edu/courses/LAW/702G)

Prereqs:
[LAW 671 \(http://bulletin.unl.edu/courses/LAW/671\)/G](http://bulletin.unl.edu/courses/LAW/671/G), [673/G](http://bulletin.unl.edu/courses/LAW/673/G), or [640/G](http://bulletin.unl.edu/courses/LAW/640/G)

Students previously enrolled in Seminar (665/G) may not enroll in this course. Two night sessions of three hours each for a negotiation exercise that will take the place of six class sessions. Selected issues of international trade law and policy. Several prominent issues: trade in agricultural goods, new issues facing the international trading system, and other topics selected by students for research papers. Visiting scholars or government officials or faculty from other departments at the university may also make presentations to the seminar.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
703G

Law and Medicine

[LINK \(http://bulletin.unl.edu/courses/LAW/703G\)](http://bulletin.unl.edu/courses/LAW/703G)

Major topics at the intersection of law and medicine in America today. Most relate to the legal implications of health care quality and cost, to the legal implications of access to health care, or to issues in the area of bioethics. In particular, time devoted to the organization and legal credentialing of health care providers, individual and institutional; to medical malpractice law and its reform; to legal mechanisms of cost-control in health care delivery; to publicly-subsidized health care for the needy; and to the medicolegal issues surrounding morally controversial topics in modern medicine, such as issues relating to facilitating or avoiding reproduction, to the right to treatment, to the right to refuse treatment, to yet other issues.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
705G

Agricultural Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/705G\)](http://bulletin.unl.edu/courses/LAW/705G)

Selected problems in agricultural law.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW

Rural Development and Energy Law

[LINK \(http://bulletin.unl.edu/courses/LAW/706G\)](http://bulletin.unl.edu/courses/LAW/706G)

706G

Rural Development and Energy Law Seminar (Law 706)(3 credit hours) This course will cover specific laws and regulations, as well as business and policy considerations, that inform efforts to develop rural infrastructure, stimulate jobs, establish community-based financial and non-profit institutions, and encourage rural entrepreneurship. Particular emphasis will be placed on how energy law and policy may be shaping the rural future. This course will also include a comparative element, with literature from the Law and Development movement, international development, and the affordable housing and urban renewal contexts considered in conjunction with current rural development concerns.

Credit Hours:	3
Course Format:	Lecture 2
Course Delivery:	Classroom

LAW 707G

International Human Rights Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/707G\)](http://bulletin.unl.edu/courses/LAW/707G)

Students required to write a substantial research paper on a topic of their choice. Interested students have the opportunity to research subjects of relevance to the work of the International Criminal Tribunal for the Former Yugoslavia. Historical, political and philosophical roots of international human rights law, its development over the course of the last century and its contemporary role in international affairs. May include current attempts to strengthen UN fact-finding and implementation mechanisms; the relationship between UN peacekeeping and peacemaking, on the one hand, and international humanitarian law, on the other; the activities of regional human rights systems; the effect of the United States' recent signature and ratification of UN human rights conventions and the role of such conventions, and international human rights law generally, in US courts; and contemporary efforts to enforce international human rights law through the criminal process.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW 708G

Alternative Dispute Resolution

[LINK \(http://bulletin.unl.edu/courses/LAW/708G\)](http://bulletin.unl.edu/courses/LAW/708G)

Theoretical, practical, ethical and legal issues confronted by mediators, arbitrators, neutral evaluators, and other dispute resolution specialists and the parties they serve. Legal context within which alternative forms of dispute resolution take place. Procedures examined: agreements arising from negotiations, mediations, arbitrations, summary jury trials, mini-trials, private judges, early neutral evaluations, neutral experts and masters, negotiated rulemaking, and claims facilities. Status of these procedures examined in light of existing case and statutory law and from a public policy point of view. Issues: confidentiality and privilege, conflicts of interest, finality/enforceability of resolutions, liability and ethical standards applicable to third parties, the extent of judicial review of decisions, arbitrability of disputes, international law, and public interest concerns. Disputes in a variety of settings considered: family, employment, medical, commercial, criminal, and international.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW 709G

Arbitration

[LINK \(http://bulletin.unl.edu/courses/LAW/709G\)](http://bulletin.unl.edu/courses/LAW/709G)

law, process, and skills; federal and state laws; commercial, labor, employment, securities, construction, international, and court-annexed arbitration; and other topics related to arbitration.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW 710G

Mediation

[LINK \(http://bulletin.unl.edu/courses/LAW/710G\)](http://bulletin.unl.edu/courses/LAW/710G)

Process in which a trained neutral third party assists others in resolving a dispute or planning a transaction. Training in basic mediation skills through readings, demonstrations, simulations, and the keeping of a mediation notebook. The nature of mediation and its relationship to other forms of dispute resolution, the nature of conflict, models and styles of mediation, negotiation theory, communication skills, the interest-based mediation process, the representation of clients in mediation, special issues relating to attorney mediators, and mediators standards and ethics.

Credit Hours: 4

Campus:

Course Delivery: Classroom

LAW
711G Copyright Law

[LINK \(http://bulletin.unl.edu/courses/LAW/711G\)](http://bulletin.unl.edu/courses/LAW/711G)

Protection of literary, artistic, musical, and audiovisual works under the laws of copyright and unfair competition. Rights in characters, computer programs, nonfiction works, titles, and useful articles, in addition to more traditional subject matter such as art, literature, and music; issues of infringement including home recording, photocopying, computer transmission and public performance; procedural aspects of the 1976 Copyright Act, including notice, registration, transfer and duration.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
712G Law and Literature

[LINK \(http://bulletin.unl.edu/courses/LAW/712G\)](http://bulletin.unl.edu/courses/LAW/712G)

Interdisciplinary study of the relations between law and literature, exploring the law in literature and the law as literature. The law in literature: Novelists, poets, and playwrights have seen the human interest in the law and in legal events; the law and lawyers have therefore been central to some major works of literature. Examines ways the law and lawyers have appeared in literature, and attempts to draw some lessons from them. The law as literature: Primary and secondary writing in the law employs most of the literary devices found in the imaginative literatures, and the tools of literary interpretation and analysis can therefore be brought to bear on legal texts. Exploring the literary aspects of the law, and deriving practical and theoretical insights from this exploration.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
713G Style and Composition in Legal Writing

[LINK \(http://bulletin.unl.edu/courses/LAW/713G\)](http://bulletin.unl.edu/courses/LAW/713G)

Skills course. Requires as much practical writing as reading and study. Discusses various causes of poor legal writing—legal writing that is unnecessarily difficult to read—and attempts to understand what constitutes good legal writing, and what makes it work. Focuses on developing clarity, coherence, and concision in legal writing. Students should develop a better understanding of the linguistic causes of good and bad legal writing, and a set of concrete writing tools for the improvement of their own writing.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
714G Comparative Law: International Gender Issues

[LINK \(http://bulletin.unl.edu/courses/LAW/714G\)](http://bulletin.unl.edu/courses/LAW/714G)

Selected problems of international and comparative gender issues in foreign legal systems and their impact on US law. Specific documents that may be discussed include the United States Constitution; US Refugee Law; Violence Against Women Act; International Covenant on Civil and Political Rights; Universal Declaration of Human Rights; United Nations Charter; International Covenant on Economic, Social, and Cultural Rights; International Covenant on Civil and Political Rights; Convention on the Rights of the Child; Convention on the Elimination of All Forms of Discrimination Against Women; and the Declaration of the Elimination of Violence Against Women.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
715G Transnational and International Criminal Law

[LINK \(http://bulletin.unl.edu/courses/LAW/715G\)](http://bulletin.unl.edu/courses/LAW/715G)

715G

This course will provide an introduction to several international law topics of current interest and special importance to the international community, particularly related to transnational criminal activities, terrorism, and international criminal law offenses. Specific topics will include: the conclusion, interpretation and termination of international agreements; state sovereignty over land, sea and air; extraterritorial state criminal jurisdiction; nationality; extradition; international criminal law; war crimes; the International Criminal Court, and; the United Nations Charter regime and related structures, including the ad hoc international criminal tribunals

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

LAW 716G

Comparative Law: International Gender Issues Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/716G\)](http://bulletin.unl.edu/courses/LAW/716G)

Selected problems of international and comparative gender issues in foreign legal systems and their impact on U.S. law. Documents for discussion include the U.S. Constitution; U.S. Refugee Law; Violence Against Women Act; International Covenant on Civil and Political Rights; Universal Declaration of Human Rights; United National Charter; International Covenant on Economic, Social, and Cultural Rights; International Covenant on Civil and Political Rights; Convention of the Rights of the Child; Convention on the Elimination of All Forms of Discrimination Against Women; and the Declaration on the Elimination of Violence Against Women.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW 717G

Education Law

[LINK \(http://bulletin.unl.edu/courses/LAW/717G\)](http://bulletin.unl.edu/courses/LAW/717G)

The role that law plays in education in the United States. The rights of students and teachers, special education and disability, school finance, school searches, student discipline, privacy of records, liability of school officials and discrimination based on gender and race. The emerging case law on state constitutional claims of education equity and adequacy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW 718G

Refugee and Asylum Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/718G\)](http://bulletin.unl.edu/courses/LAW/718G)

Refugee issues in the context of domestic and international political environments. Asylum reform, gender-based persecution, persecution of gays and lesbians, deficiencies in international and domestic refugee law, and firm resettlement of displaced persons. Interdisciplinary focus: considers the interplay among political, social, economic, cultural and psychological phenomena as refugees, governments of host countries, and international and non-governmental organizations interact in the context of ongoing crises around the world.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW 721G

Law & Liberty in Time of Crisis

[LINK \(http://bulletin.unl.edu/courses/LAW/721G\)](http://bulletin.unl.edu/courses/LAW/721G)

Law & Liberty in Time of Crisis Seminar (Law 721)(3 credit hours) An examination of constitutional rights and limits on liberty during times of crisis. The foundation will be a review of selected events such as the Alien and Sedition Acts, habeas corpus in the Civil War, the World War I Espionage Act, World War II internment of aliens, the Steel Seizure, the 1950's Red Scare, and the Pentagon Papers. Students will use this foundation to prepare a seminar paper addressing a selected issue about law and liberty under post-9/11 legislation and executive action

Credit Hours:	3
Course Format:	Lecture 2
Course Delivery:	Classroom

LAW

Agricultural Environmental Law[LINK \(http://bulletin.unl.edu/courses/LAW/722\)](http://bulletin.unl.edu/courses/LAW/722)**722/722G**

Environmental law in agriculture, the Clean Water Act as it applies to agriculture, the environmental and conservative provisions of the farm program, pesticide regulation and liability, and other areas where environmental concerns and the agriculture industry intersect.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW

Securities Brokers, Mutual Funds, and Investment Advisers[LINK \(http://bulletin.unl.edu/courses/LAW/723G\)](http://bulletin.unl.edu/courses/LAW/723G)**723G****Prereqs:**

[LAW 632G \(http://bulletin.unl.edu/courses/LAW/632G\)](http://bulletin.unl.edu/courses/LAW/632G).

Neither securities regulation or any knowledge of federal securities law is a prerequisite for this course.

Regulation of brokers and investment advisers by federal securities law: regulation of brokers under the Securities Exchange Act; regulation of investment companies under the Investment Company Act; and regulation of investment advisers under the Investment Advisers Act.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW

Economic Justice Seminar[LINK \(http://bulletin.unl.edu/courses/LAW/725\)](http://bulletin.unl.edu/courses/LAW/725)**725/725G**

A social justice critique of free markets. The relationship of legal rules to the distribution of wealth. Introduction of a range of materials and critique the economic theory underlying various approaches to law and economics. Readings will include an interdisciplinary perspective Current topics in economic inequality, e.g., access to credit, housing and others.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW

Domestic Telecommunications Law[LINK \(http://bulletin.unl.edu/courses/LAW/726\)](http://bulletin.unl.edu/courses/LAW/726)**726/726G**

Legal framework applied in the U.S. to most wireline and wireless communications (not including the Internet). Cable television, landline telephone, broadcast and satellite radio and television, and mobile technologies. Economic, technological, national security, and statutory and constitutional issues, current policies, and academic debates.

Credit Hours:	1-2
Max credits per degree:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

LAW

Statutory Interpretation: Practice & Policy[LINK \(http://bulletin.unl.edu/courses/LAW/728G\)](http://bulletin.unl.edu/courses/LAW/728G)**728G**

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

LAW

Civil Rights Litigation[LINK \(http://bulletin.unl.edu/courses/LAW/729G\)](http://bulletin.unl.edu/courses/LAW/729G)**729G****Prereqs:**

[LAW 516G \(http://bulletin.unl.edu/courses/LAW/516G\)](http://bulletin.unl.edu/courses/LAW/516G), [517G \(http://bulletin.unl.edu/courses/LAW/517G\)](http://bulletin.unl.edu/courses/LAW/517G) and [609G \(http://bulletin.unl.edu/courses/LAW/609G\)](http://bulletin.unl.edu/courses/LAW/609G).

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

Major substantive and procedural issues in litigation to protect civil rights. Established theories of liability and defenses, possible new developments in legal doctrine, and pending statutory changes.

LAW

731

Tribal Gaming Law

[LINK \(http://bulletin.unl.edu/courses/LAW/731\)](http://bulletin.unl.edu/courses/LAW/731)

This seminar will examine the history of tribal gaming, the landmark case of California v. Cabazon Band of Mission Indians, 480 U.S. 202 (1987) and the resulting Indian Gaming Regulatory Act (IGRA). Tribal gaming is regulated by tribal, federal, and state law and is a complex mix of issues: what constitutes a tribe and tribal lands; how do newly acquired lands become Indian Country; what is the role, structure, and authority of the National Indian Gaming Commission; what defines and distinguishes Class I, Class II and Class III gaming; how are tribal – state compacts formed; who may claim a portion of gaming revenues through fees or taxes; and what institutions and political players are crucial to the public debates on tribal and state revenue sharing, tribal economic development, and off-reservation casinos

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

LAW

731G

Tribal Gaming Law

[LINK \(http://bulletin.unl.edu/courses/LAW/731G\)](http://bulletin.unl.edu/courses/LAW/731G)

This seminar will examine the history of tribal gaming, the landmark case of California v. Cabazon Band of Mission Indians, 480 U.S. 202 (1987) and the resulting Indian Gaming Regulatory Act (IGRA). Tribal gaming is regulated by tribal, federal, and state law and is a complex mix of issues: what constitutes a tribe and tribal lands; how do newly acquired lands become Indian Country; what is the role, structure, and authority of the National Indian Gaming Commission; what defines and distinguishes Class I, Class II and Class III gaming; how are tribal – state compacts formed; who may claim a portion of gaming revenues through fees or taxes; and what institutions and political players are crucial to the public debates on tribal and state revenue sharing, tribal economic development, and off-reservation casinos.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW

733G

Advanced Legal Research

[LINK \(http://bulletin.unl.edu/courses/LAW/733G\)](http://bulletin.unl.edu/courses/LAW/733G)

Advanced exposure to the tools of legal research: the nature of and philosophies surrounding organization and production of the materials themselves.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW

735G

Criminal Trial and Post Conviction Procedure

[LINK \(http://bulletin.unl.edu/courses/LAW/735G\)](http://bulletin.unl.edu/courses/LAW/735G)

Criminal procedure issues arising after a suspect's arrest. "Trial" issues include pre-trial preliminary hearings and grand jury proceedings as well as trial questions relating to joinder and severance, representation of multiple defendants, treatment of incarcerated defendants (including bail), right to jury trial, the fair trial-free press conflict, right to speedy trial, and discovery. "Post-trial" issues include sentencing, appeal, post conviction remedies, and corrections. Professional responsibility of attorneys in criminal cases.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW

736G

Bankruptcy

[LINK \(http://bulletin.unl.edu/courses/LAW/736G\)](http://bulletin.unl.edu/courses/LAW/736G)

This course is a prerequisite for: [LAW 738G \(http://bulletin.unl.edu/courses/LAW/738G\)](http://bulletin.unl.edu/courses/LAW/738G)

Credit Hours:	1-4
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After surveying the rights of creditors and debtors under state law, considers the impact of bankruptcy upon secured and unsecured creditors and upon stockholders. The bankruptcy trustee's avoiding powers are studied. Code Chapter 12: Adjustments of Debt for Family Farmers considered in some detail. Chapters 7, 11, and 13 liquidations and reorganizations surveyed with selected topics considered in depth. The negotiated settlements and "workout agreements" which characterize this area of practice emphasized.

Campus:	
Course Delivery:	Classroom

LAW
737G

Law of Provider and Patient

[LINK \(http://bulletin.unl.edu/courses/LAW/737G\)](http://bulletin.unl.edu/courses/LAW/737G)

Students may also enroll in [LAW 713G](http://bulletin.unl.edu/courses/LAW/713G) (<http://bulletin.unl.edu/courses/LAW/713G>) Style and Composition in Legal Writing for an additional hour of Law College credit. A limited but central topic in the larger field of health-care law—the law bearing on the relationship between a health-care provider and a patient. Surveys the legal rights and obligations of patients and their health care providers, individual and institutional. Covering qualification as a health care provider (institutional and individual licensure); the legal doctrines relating to the formation of provider-patient relationship; the locus of decisional authority in the relationship; the provider's fiduciary duties to the patient (to deliver care of professionally acceptable quality [including traditional malpractice law], to avoid conflicts of interest, to respect the patient's privacy, and to protect the confidentiality of medical information about the patient); the reciprocal obligation of the patient to take reasonable steps to assure payment and to comply with medical directives; and the legal doctrines relating to the termination of provider-patient relationships.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
738G

Advanced Bankruptcy

[LINK \(http://bulletin.unl.edu/courses/LAW/738G\)](http://bulletin.unl.edu/courses/LAW/738G)

Prereqs:
[LAW 736G \(http://bulletin.unl.edu/courses/LAW/736G\)](http://bulletin.unl.edu/courses/LAW/736G).

Selected legal issues under the bankruptcy code with an emphasis upon corporate and farm reorganizations. Includes the treatment of executory contracts and leases; avoidance of pre-bankruptcy transfers; business reorganizations under Chapter 11; farm reorganizations under Chapter 12; use, sale, and lease of property; obtaining credit during the pendency of bankruptcy proceedings; negotiation and drafting of post-petition credit arrangements; relief from the automatic stay; adequate protection of lienholders; and plan confirmation standards under Chapter 11 and Chapter 12.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
739G

Criminal Law II

[LINK \(http://bulletin.unl.edu/courses/LAW/739G\)](http://bulletin.unl.edu/courses/LAW/739G)

Scope and content of federal crimes. Fraud and political corruption, drug trafficking, money laundering, organized crime, false statement, obstruction of justice and federal sentencing guidelines.

Credit Hours:	1-4
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

LAW
740G

Negotiations

[LINK \(http://bulletin.unl.edu/courses/LAW/740G\)](http://bulletin.unl.edu/courses/LAW/740G)

Students expected to complete a journal which relates class discussions, lectures, readings, and personal experiences into a guide book for future negotiation practice. Variety of negotiation styles and an opportunity to apply these styles in a series of increasingly complex negotiation problems. Negotiation problems include plea bargains, personal injury cases,

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

commercial negotiations, and labor management disputes. Strategic and psychological factors present in negotiation styles. To improve negotiation performance and broaden the repertoire of strategic and stylistic choices available to the student negotiator.

LAW
741G Pretrial Litigation

[LINK \(http://bulletin.unl.edu/courses/LAW/741G\)](http://bulletin.unl.edu/courses/LAW/741G)

This course is a prerequisite for: [LAW 798G \(http://bulletin.unl.edu/courses/LAW/798G\)](http://bulletin.unl.edu/courses/LAW/798G)

Application of procedural rules to the bringing and defending of civil law suits and on considering the tactical and strategic aspects of litigation. Weekly exercises on pleading, motion practice and discovery.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
742G Securities Fraud

[LINK \(http://bulletin.unl.edu/courses/LAW/742G\)](http://bulletin.unl.edu/courses/LAW/742G)

Civil actions for damages caused to investors by misrepresentations in securities markets. Specific topics vary.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

LAW
743G Remedies and Damages

[LINK \(http://bulletin.unl.edu/courses/LAW/743G\)](http://bulletin.unl.edu/courses/LAW/743G)

The interplay and choice of possible recoveries in property, personal, and business interest situations. Damages: object of an award in contract and tort, limitations on recovery, and elements of damage. Equity: specific performance and injunctions. Examines the place and scope of restitution in the remedial structure, theories of recovery in basic contract and tort situations including vendor and vendee relationships, conversion, personal injury, defamation, privacy, unfair competition and employer-employee relationships, and the use of legal and equitable remedies in modern codes.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
744G Legislation and the Political Process

[LINK \(http://bulletin.unl.edu/courses/LAW/744G\)](http://bulletin.unl.edu/courses/LAW/744G)

This course will examine the basic structure of American legislative institutions and the process of law-making with emphasis on legislative process and external influences shaping the consideration, composition, enactment and implementation of new laws. The course will draw on real-world, "hot topic" issues for various practical exercises, including the drafting of statutes and written comments for agency and congressional submission. In addition, the course will familiarize students with various kinds of materials, including bills, committee reports, legislative rules, floor debates, and statutes. Collectively, these exercises and readings will allow the class to fully explore and evaluate the legislative process in its various contexts.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

LAW
746G Corporate Finance

[LINK \(http://bulletin.unl.edu/courses/LAW/746G\)](http://bulletin.unl.edu/courses/LAW/746G)

Introduction to the theories and applications of modern corporate finance. The course will explore a range of topics, including: valuation theories; the efficient capital market hypothesis; risk, return, the capital asset pricing model, and arbitrage pricing theory; investment and financing decisions; optimal capital structure; the role of classical finance theory in legal decisions; and option theory. Prerequisite: Business Associations or permission of instructor.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

LAW
746G

Corporate Finance Governance

[LINK \(http://bulletin.unl.edu/courses/LAW/746G\)](http://bulletin.unl.edu/courses/LAW/746G)

Prereqs:
[LAW 632G \(http://bulletin.unl.edu/courses/LAW/632G\)](http://bulletin.unl.edu/courses/LAW/632G).

The financial structure and governance of the modern corporation and other similar entities. Issues of valuation relating to the corporation enterprise, alternatives for managing corporate risk, sources of corporate funding, and right of competing corporate stakeholders. Legal duties imposed on corporate management, factors influencing management's decisions, and how management can act to satisfy its duties and maximize corporate value.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW
748G

Space Law

[LINK \(http://bulletin.unl.edu/courses/LAW/748G\)](http://bulletin.unl.edu/courses/LAW/748G)

This course is a prerequisite for: [LAW 766G \(http://bulletin.unl.edu/courses/LAW/766G\)](http://bulletin.unl.edu/courses/LAW/766G)

Space law and policy for intelligence gathering and weaponization, telecommunications, satellite launch, space tourism, and remote sensing. Application of five major international space treaties to regulation of modern space activities and arms control agreements. New and growing problems of orbital debris, protection of in-space assets and terrorism.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

LAW
749G

Commercial Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/749G\)](http://bulletin.unl.edu/courses/LAW/749G)

Students write and present a paper addressing an area of interest in commercial or banking law. Increasingly, attorneys are facing new legal dilemmas posed by several developments in commercial practices. Explores several current issues in commercial and banking law. Includes "Technology and the Uniform Commercial Code," "Consumer Protection and the UCC," "Banks and Community Needs" and various issues arising from proposed revisions to the Uniform Commercial Code (UCC).

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
750G

American Foreign Affairs Law and Policy Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/750G\)](http://bulletin.unl.edu/courses/LAW/750G)

Prereqs:
Previous enrollment in an international law course recommended

Structural and organizational issues related to United States foreign policymaking such as separation of powers and federalism. United States foreign policy in substantive areas such as the war on terror, non-proliferation, trade, foreign aid, global warming, relations with the European Union, and relations with Latin America.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW
751G

Pension and Employee Benefit Law

[LINK \(http://bulletin.unl.edu/courses/LAW/751G\)](http://bulletin.unl.edu/courses/LAW/751G)

Law relating to pensions and employee benefits. The role of pensions and employee benefits in the compensation package, taxation of pensions, regulation of pension and benefit plans, ERISA fiduciary law, and issues relating to the termination of pension plans.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW

Labor and Employment Law: Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/LAW/752G\)](http://bulletin.unl.edu/courses/LAW/752G)

752G

The class will have a limited enrollment. Preference given to students who have earned at least 6 credits from the following courses: Civil Rights Litigation, Civil Rights Litigation Seminar, Employment Law, Employment Law Seminar, Labor Law, Labor Law Seminar, Legal Control of Discrimination, Legal Control of Discrimination Seminar, Pension and Employee Benefit Law, Public Employment Law. A modest bridge between classroom instruction in labor and employment law and real world practice in the area. Local practitioners collaborate with faculty member to formulate problems for the class and participate in several class sessions. Students engage in intensive analysis of issues arising out of the problems; they may be asked to prepare and discuss work products that fall anywhere on a continuum between the scholarly (such as law review-type analyses of complex issues) and the intensely practical (such as drafting interrogatories).

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW

Federal Courts

754G

[LINK \(http://bulletin.unl.edu/courses/LAW/754G\)](http://bulletin.unl.edu/courses/LAW/754G)

Advanced study of United States constitutional law in the litigational context and focused on the power, history, and development of the federal judicial system and the distribution of power between the federal and state systems.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW

International Telecommunications Law

756G

[LINK \(http://bulletin.unl.edu/courses/LAW/756G\)](http://bulletin.unl.edu/courses/LAW/756G)

National and international regimes for regulating telecommunications and media communications by cable, phone and fiber, and by satellite, broadcast, and wireless. International lawmaking through the International Telecommunications Union and the World Trade Organization including international allocation of spectrum for wireless services and orbital slots for satellites as well as issues about international copyright and/or broadcasting and those surrounding submarine cables. Jurisdiction among different international and national bodies and conflicts among nation states. Historical regulation and how the convergence between telephone, television and computer services can upset existing regulatory apparatuses. Comparative analysis of different nations' communications policies. Exploration of how the United States addresses global communications issues, consideration of domestic U.S. regulations limiting, and setting a framework for foreign involvement in certain communications industries within the U.S.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

LAW

Psycholegal Research Other than Thesis I

757G

Crosslisted as *PSYC 995*

[LINK \(http://bulletin.unl.edu/courses/LAW/757G\)](http://bulletin.unl.edu/courses/LAW/757G)

Research is supervised and approved by a faculty member in the Law/Psychology program. Absent the prior approval of the Dean, only those students enrolled in the Law/Psychology Joint Degree Program may register for this course. Absent the prior approval of the Dean, no student may take more than 6 hours of research in a selected and/or psycholegal research. A substantial research and writing project on a psychological topic.

Credit Hours:	3-6
Campus:	
Course Delivery:	Classroom

LAW

Psycholegal Research Other than Thesis II

758G

Crosslisted as *PSYC 995A*

[LINK \(http://bulletin.unl.edu/courses/LAW/758G\)](http://bulletin.unl.edu/courses/LAW/758G)

Research is supervised and approved by a faculty member in the Law/Psychology program. Absent the prior approval of the Dean, only those students enrolled in the Law/Psychology Joint Degree Program may register for this course. Absent the prior approval of the Dean, no student may take

Credit Hours:	3-6
Campus:	
Course Delivery:	Classroom

more than 6 hours of research in a selected and/or psycholegal research.
For course description, see [LAW 757G](http://bulletin.unl.edu/courses/LAW/757G)
(<http://bulletin.unl.edu/courses/LAW/757G>).

LAW
760G

Arms Control

[LINK \(http://bulletin.unl.edu/courses/LAW/760G\)](http://bulletin.unl.edu/courses/LAW/760G)

Course Format:	Lecture 2
Course Delivery:	Classroom

LAW
762G

Law and Behavioral Science

Crosslisted as *PSYC 985*

[LINK \(http://bulletin.unl.edu/courses/LAW/762G\)](http://bulletin.unl.edu/courses/LAW/762G)

General issues in the interaction between law and the behavioral sciences; discussion of the use/misuse/nonuse of the behavioral sciences in the law, with attention to ways of making behavioral science input most useful; analysis of the law as a behavioral instrument.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
763G

Mental Health Law

Crosslisted as *PSYC 988*

[LINK \(http://bulletin.unl.edu/courses/LAW/763G\)](http://bulletin.unl.edu/courses/LAW/763G)

Credit may only be earned in either [LAW 763G](http://bulletin.unl.edu/courses/LAW/763G)
(<http://bulletin.unl.edu/courses/LAW/763G>) or [LAW 772G](http://bulletin.unl.edu/courses/LAW/772G)
(<http://bulletin.unl.edu/courses/LAW/772G>).

Critical review of the mental health laws throughout the nation and their psychological foundations. Emphasis on the research that illuminates the problems facing mental health law, system, and processes and the available solutions. Includes the insanity defense, competency to stand trial, guardianship, conservatorship, and civil commitment.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
764G

Topics in Law and Psychology I

Crosslisted as *PSYC 989*

[LINK \(http://bulletin.unl.edu/courses/LAW/764G\)](http://bulletin.unl.edu/courses/LAW/764G)

May be repeated once. Analysis of specific psycholegal topics. Previous course titles include Privacy, Mental Health Policy, Legal Decision Making, Institutional Reform and Deinstitutionalization, Legal Policy and Child Development, and Domestic Violence.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
765G

Topics in Law and Psychology II

Crosslisted as *PSYC 989A*

[LINK \(http://bulletin.unl.edu/courses/LAW/765G\)](http://bulletin.unl.edu/courses/LAW/765G)

May be repeated once. For course description, see [LAW 764G](http://bulletin.unl.edu/courses/LAW/764G)
(<http://bulletin.unl.edu/courses/LAW/764G>).

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
766G

National Space Legislation

[LINK \(http://bulletin.unl.edu/courses/LAW/766G\)](http://bulletin.unl.edu/courses/LAW/766G)

Prereqs:
[LAW 748G \(http://bulletin.unl.edu/courses/LAW/748G\)](http://bulletin.unl.edu/courses/LAW/748G).

Implementation of international space treaties and other international space law by means of the establishment of national space legislation. Licensing regimes dealing with liability issues or other control mechanisms. Ways in

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

which countries across the world have chosen to implement relevant international requirements as well as to assert national space policies by means of national law. Discussion of national U.S. law regarding satellite communications, satellite remote sensing, and space tourism.

LAW
771G

Gender Issues in the Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/771G\)](http://bulletin.unl.edu/courses/LAW/771G)

Critical review of gender role in shaping socio-legal relationships and policies. Procedural and substantive areas of the law that affect and are affected by gender. Employment, property, torts, Constitutional law, and contractual relationships. Complex relationship between gender, race and class.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW
772G

Mental Health Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/772G\)](http://bulletin.unl.edu/courses/LAW/772G)

Credit may only be earned in either [LAW 763G](http://bulletin.unl.edu/courses/LAW/763G) (<http://bulletin.unl.edu/courses/LAW/763G>) or [LAW 772G](http://bulletin.unl.edu/courses/LAW/772G) (<http://bulletin.unl.edu/courses/LAW/772G>).

Critical review of the mental health laws throughout the nation and their psychological foundations. Emphasis on the research that illuminates the problems facing mental health law, system, and processes and the available solutions. Includes the insanity defense, competency to stand trial, guardianship/conservatorship, and civil commitment.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
773G

Criminal Sanction Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/773G\)](http://bulletin.unl.edu/courses/LAW/773G)

Criminal sanction with attention to conceptual and justificatory problems. Issues relating to the just administration of punishment, including the death penalty, as well as legal doctrines and defenses negating or mitigating criminal responsibility. Sentencing process considered with attention to the legal rights of offenders from conviction to final release.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW
775G

Jurisprudence Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/775G\)](http://bulletin.unl.edu/courses/LAW/775G)

Judicial process, the principal schools of jurists, theories of the nature of law and the legal order, the problems of the science of law today, and their application to the American social system.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
779G

Deregulation Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/779G\)](http://bulletin.unl.edu/courses/LAW/779G)

Each student will be required to write a paper examining a Nebraska regulatory provision and considering whether that particular regulation should be eliminated or modified. A review of the policy arguments for and against government regulation and their application to particular regulatory provisions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

LAW
781G

Constitutional Problems Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/781G\)](http://bulletin.unl.edu/courses/LAW/781G)

Selected constitutional issues of current importance.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW
782G

Advanced Trial Advocacy

[LINK \(http://bulletin.unl.edu/courses/LAW/782G\)](http://bulletin.unl.edu/courses/LAW/782G)

Prereqs:

[LAW 761G \(http://bulletin.unl.edu/courses/LAW/761G\)](http://bulletin.unl.edu/courses/LAW/761G).

Enrollment limited to 16 students per semester. Simulation exercises concerning advanced trial advocacy topics including jury selection, expert witnesses, problem witnesses, development of a trial theme and multi-party litigation. Students perform simulated jury trial.

Credit Hours: 3

Campus:

Course Delivery: Classroom

LAW
785G

Introduction to European Union Law

[LINK \(http://bulletin.unl.edu/courses/LAW/785G\)](http://bulletin.unl.edu/courses/LAW/785G)

This course is a prerequisite for: [LAW 786G \(http://bulletin.unl.edu/courses/LAW/786G\)](http://bulletin.unl.edu/courses/LAW/786G)

Overview of the development of establishment of the European Union and the current transition from the failed Constitutional Treaty to the new Reform Treaty. The unique character of the EC/EU as a half-way house between a classical intergovernmental organization and a federal state, respective roles of the Council the European Commission, the European Parliament, and the European Court of Justice in the process of law-making, regulations, directives, and decisions at the European level. Major substantive elements of EC law, such as the freedom of movement of goods, services, person, capital, and the competition regime.

Credit Hours: 1

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

LAW
786G

European Regulation of Space and Technology

[LINK \(http://bulletin.unl.edu/courses/LAW/786G\)](http://bulletin.unl.edu/courses/LAW/786G)

Prereqs:

[LAW 785G \(http://bulletin.unl.edu/courses/LAW/785G\)](http://bulletin.unl.edu/courses/LAW/785G).

Interaction between EC/EU and the European Space Agency in the development of European space activities and policies, in regard to EUTELSAT and EUMETSAT, and their institutional integration. The development of Galileo and the Global Monitoring for Environment Security project; general legislative and regulatory competencies of commercial space and satellite communications; gradual development of an internal market for SATCOM services.

Credit Hours: 1

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

LAW
789G

Securities Regulation

[LINK \(http://bulletin.unl.edu/courses/LAW/789G\)](http://bulletin.unl.edu/courses/LAW/789G)

Prereqs:

[LAW 632G \(http://bulletin.unl.edu/courses/LAW/632G\)](http://bulletin.unl.edu/courses/LAW/632G).

A comprehensive but intensive survey of the statutes and regulations governing the distribution of securities, trading of securities on the stock exchanges and the over-the-counter markets, and the growing role of federal law in corporate governance. Primary focus on the Securities Act of 1933 and the Securities Exchange Act of 1934, with limited attention to state "blue sky" securities legislation.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

LAW

Legal Profession

[LINK \(http://bulletin.unl.edu/courses/LAW/790G\)](http://bulletin.unl.edu/courses/LAW/790G)

790G

This course meets the faculty's requirement for a course in professional responsibility. A systematic study of the principles of professional responsibility governing the practice of law in the United States.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW 791G Legal Profession Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/791G\)](http://bulletin.unl.edu/courses/LAW/791G)

When so designated by the instructor, this seminar meets the faculty's requirement for a course in professional responsibility. Problems related to the American legal profession.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW 796G Native American Law

[LINK \(http://bulletin.unl.edu/courses/LAW/796G\)](http://bulletin.unl.edu/courses/LAW/796G)

Concepts used historically to fit Native Americans into the legal structure of the United States. The power of the federal government, the power of the states, and the historical and contemporary power of the tribes explained.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW 797G Native American Law Seminar

[LINK \(http://bulletin.unl.edu/courses/LAW/797G\)](http://bulletin.unl.edu/courses/LAW/797G)

Concepts used historically to fit Native Americans into the legal structure of the United States. The power of the federal government, the power of the states, and the historical and contemporary power of the tribes explained.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW 798G Clinical Practice-Civil

[LINK \(http://bulletin.unl.edu/courses/LAW/798G\)](http://bulletin.unl.edu/courses/LAW/798G)

Prereqs:
Paralell [LAW 741G \(http://bulletin.unl.edu/courses/LAW/741G\)](http://bulletin.unl.edu/courses/LAW/741G).

Open only to students with senior standing. Students are also required to attend a seminar on lawyering skills and the representation of clients. Students, under close faculty supervision, advise and represent clients in a variety of civil cases, including landlord-tenant, consumer, collection, bankruptcy, immigration, tax, and domestic relations cases.

Credit Hours:	2-6
Campus:	
Course Delivery:	Classroom

LAW 799G Clinical Practice-Criminal

[LINK \(http://bulletin.unl.edu/courses/LAW/799G\)](http://bulletin.unl.edu/courses/LAW/799G)

Prereqs:
[LAW 761G \(http://bulletin.unl.edu/courses/LAW/761G\)](http://bulletin.unl.edu/courses/LAW/761G).

Open only to students with senior standing. Participation in a seminar concentrating on the development of skills necessary to the prosecution and defense of criminal cases is required. Students prosecute a variety of misdemeanor offenses under the close supervision of a member of the faculty. Cases are prosecuted through the Lancaster County Attorney's Office and the practice component of the course is conducted out of that office.

Credit Hours:	3-6
Campus:	
Course Delivery:	Classroom

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/LegalStudies). (<http://www.unl.edu/gradstudies/prospective/programs/LegalStudies>)

Graduate Committee: Professors Lawson (Chair), Beard, Berger, Blankley, Bradford, Burkstrand-Reid, Denicola, Duncan, Frank, Gardner, Gradwohl, Kirst, Leiter, Lenich, Leopard, Lyons, Medill, Moberly, Poser, Potuto, Ruser, Schaefer, Schmidt, Schopp, Schutz, Shavers, Sheppard, Willborn, Wilson, Works, Zellmer

The master of legal studies (MLS) degree program is designed for individuals who are not interested in practicing law, but who are interested in developing a better understanding of the law as it affects their nonlegal careers or areas of interest.

Students who are admitted to the program can begin their course work only during a fall semester and must complete, with satisfactory grades, 33 credit hours of law in order to receive an MLS degree. The required courses are Foundational Legal Skills (2 credit hours, fall semester only) as well as one of the following courses: Contracts, Property or Torts. Contracts and Property are full-year 6 credit hour courses – 3 hours in the fall semester and 3 hours in the spring semester. Torts is a 4 credit hour course, offered in the fall semester only. A student may begin taking elective courses during the first year of the program. Most, but not all, of the law courses may be taken as electives and all degree requirements must be completed within three years.

It should be emphasized that a master of legal studies degree is not a substitute for the juris doctorate (JD). Individuals who are interested in practicing law or in applying for admission to the bar should seek a JD degree not an MLS degree.

Students who need further information about admission to the MLS degree program, the program's course and academic requirements, and the differences between a JD and an MLS degree, should contact the College of Law Admissions Office.

See the course listing for courses offered by the College of Law which are cross listed with the Graduate College. For information on the professional degree programs of the College of Law and additional courses, see the College of Law Bulletin.

Faculty

For faculty list, research interests and department/college contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/LegalStudies). (<http://www.unl.edu/gradstudies/prospective/programs/LegalStudies>)

Retrieved from "http://bulletin.unl.edu/graduate/Law/Legal_Studies (http://bulletin.unl.edu/graduate/Law/Legal_Studies)"

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Leadership Education & Leadership Studies

Courses for ALEC (ALEC)

ALEC 400/800	Overview to Program Planning	LINK (http://bulletin.unl.edu/courses/ALEC/400)
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Prereqs:
[ALEC 305 \(http://bulletin.unl.edu/courses/ALEC/305\)](http://bulletin.unl.edu/courses/ALEC/305) or [ALEC/TEAC 805 \(http://bulletin.unl.edu/courses/TEAC/805\)](http://bulletin.unl.edu/courses/TEAC/805)/[NUTR 806 \(http://bulletin.unl.edu/courses/NUTR/806\)](http://bulletin.unl.edu/courses/NUTR/806).

[ALEC 400 \(http://bulletin.unl.edu/courses/ALEC/400\)/800 \(http://bulletin.unl.edu/courses/ALEC/800\)](http://bulletin.unl.edu/courses/ALEC/400/800) is designed for individuals interested in developing and/or improving program planning skills.

Theoretical and applied considerations for identifying content, design, implementation, and evaluation of educational programs that vary in length from several hours to several months.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

ALEC 407/807	Supervisory Leadership Crosslisted as <i>CYAF 807</i>	LINK (http://bulletin.unl.edu/courses/ALEC/407)
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Prereqs:
[ALEC 302 \(http://bulletin.unl.edu/courses/ALEC/302\)](http://bulletin.unl.edu/courses/ALEC/302).

Knowledge and theoretical basis for practicing supervisors in a changing workplace where supervisors have increasing responsibilities due to the flattening or organizational structures, solving supervisory challenges in organizing and planning, problem solving and decision making, performance appraisal and leading a diverse workforce.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ALEC 410/810	Environmental Leadership Crosslisted as <i>NRES 413/813</i>	LINK (http://bulletin.unl.edu/courses/ALEC/410)
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Prereqs:
Junior standing.

Offered on the World Wide Web (WWW) fall semester of odd-numbered years and in the classroom fall semester of even-numbered years.

Major leaders in conservation and ecology that emphasizes agricultural and cultural issues and relationships with the environment.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

ALEC **Multimedia Applications for Education and Training**
412/812 Crosslisted as *NUTR 812*

[LINK \(http://bulletin.unl.edu/courses/ALEC/412\)](http://bulletin.unl.edu/courses/ALEC/412)

Practical applications in developing and evaluating multimedia resources for students. Surveys new applications, creates and develops various instructional materials, and reviews current practice against relevant theory. Use current software packages to develop materials for various audiences.

Credit Hours: 3

Course Format: Lecture, Lab

Course Delivery: Classroom

ALEC **Improvement of Instructional Programs for Post-High-School Occupational Education**
420/820 [LINK \(http://bulletin.unl.edu/courses/ALEC/420\)](http://bulletin.unl.edu/courses/ALEC/420)

Designing new instructional programs, expanding the impact of student behavioral objectives, and evaluating the total instructional program.

Credit Hours: 1-3

Max credits per degree: 3

Course Delivery: Classroom

ALEC **Foundations of Career and Technical Education**
424/824

[LINK \(http://bulletin.unl.edu/courses/ALEC/424\)](http://bulletin.unl.edu/courses/ALEC/424)

Scope and structure of career and technical education within the educational system. Teacher's role and responsibilities in dealing with legislative mandates in the planning, management, and evaluation of a local program.

Credit Hours: 3

Max credits per degree: 3

Course Format: Lecture 3

Course Delivery: Classroom

ALEC **Leadership and Diversity in Organizations and Communities**
466/866

[LINK \(http://bulletin.unl.edu/courses/ALEC/466\)](http://bulletin.unl.edu/courses/ALEC/466)

Prereqs:
Junior standing.

Leadership theories and their applications to human diversity in organizations and communities.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

ALEC **Leadership and Motivation**
477/877

[LINK \(http://bulletin.unl.edu/courses/ALEC/477\)](http://bulletin.unl.edu/courses/ALEC/477)

Classic and contemporary motivation theories applied to leadership in organizations and communities.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

ALEC **Leadership, Power and Influence**
488/888

[LINK \(http://bulletin.unl.edu/courses/ALEC/488\)](http://bulletin.unl.edu/courses/ALEC/488)

Organizational influence processes, power, and politics in organizations and communities.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

ALEC

496/896

Independent Study in Leadership Education

[LINK \(http://bulletin.unl.edu/courses/ALEC/496\)](http://bulletin.unl.edu/courses/ALEC/496)

Prereqs:
Permission.

Projects to research, literature review, or extension of course work.

Credit Hours: 1-9

Max credits per degree: 9

Course Delivery: Classroom

ALEC

801

Theoretical Foundations of Leadership

[LINK \(http://bulletin.unl.edu/courses/ALEC/801\)](http://bulletin.unl.edu/courses/ALEC/801)

This course is a prerequisite for: [ALEC 901 \(http://bulletin.unl.edu/courses/ALEC/901\)](http://bulletin.unl.edu/courses/ALEC/901),
[ALEC 910 \(http://bulletin.unl.edu/courses/ALEC/910\)](http://bulletin.unl.edu/courses/ALEC/910)

Major research thrusts in leadership field. Historical and contemporary research studies, surveying the literature, developing theory, and conceptualizing original research questions and problems.

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

ALEC

802

Developing Leadership Capacity in Organizations and Communities

[LINK \(http://bulletin.unl.edu/courses/ALEC/802\)](http://bulletin.unl.edu/courses/ALEC/802)

Prereqs:
ALEC *801 or equivalent

Leadership capacity in individuals and organizations. Impact of leadership on organizational outcomes and means for diagnosing leadership developmental needs. Assessing, creating and implementing a comprehensive leadership development program for an organization or community.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ALEC

804

Problems of Beginning Agriscience Teachers

[LINK \(http://bulletin.unl.edu/courses/ALEC/804\)](http://bulletin.unl.edu/courses/ALEC/804)

Problems in instructional planning and methodology and in organizing secondary and continuing education, FFA, and agriculture experience programs.

Credit Hours: 2-5

Course Format: Lecture

Campus:

Course Delivery: Classroom

ALEC

806

Introduction to Distance Education

[LINK \(http://bulletin.unl.edu/courses/ALEC/806\)](http://bulletin.unl.edu/courses/ALEC/806)

Course is not offered at this time.

Introduction to the field of distance education through readings, discussions, field trips, and research. Basic principles and key concepts of distance education in a variety of educational settings.

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

ALEC

814

Classic Figures in Leadership

[LINK \(http://bulletin.unl.edu/courses/ALEC/814\)](http://bulletin.unl.edu/courses/ALEC/814)

Requires extensive writing and oral presentations. Leadership theory in an applied context. Leadership analyzed through a variety of genres: autobiography, drama, fiction, tracts and treatises, speeches.

Credit Hours: 3

Course Format: Lecture, Recitation

Campus:

Course Delivery: Classroom

ALEC

816

Management Strategies in Distance Education Environments

[LINK \(http://bulletin.unl.edu/courses/ALEC/816\)](http://bulletin.unl.edu/courses/ALEC/816)

Course is not offered at this time.

Management strategies for a variety of distance education situations. Planning, organization, motivation, and control provide a framework for analyzing distance education in formal and non-formal, large and small, private and public, and established and emerging organizations.

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

ALEC

826

Program Evaluation

[LINK \(http://bulletin.unl.edu/courses/ALEC/826\)](http://bulletin.unl.edu/courses/ALEC/826)

Prereqs:
ALEC *833 recommended

Builds upon program development in extension programming and provides a basic overview of program evaluation principles and methods. Applies program evaluation principles in extension education.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ALEC

890

Workshop Seminars

[LINK \(http://bulletin.unl.edu/courses/ALEC/890\)](http://bulletin.unl.edu/courses/ALEC/890)

Prereqs:
Permission

Work, singly or in groups, on practical educational problems, done under the supervision of staff with assistance of selected educational consultants.

Credit Hours: 1-12

Campus:

Course Delivery: Classroom

ALEC

893

Technical Agricultural Workshops

[LINK \(http://bulletin.unl.edu/courses/ALEC/893\)](http://bulletin.unl.edu/courses/ALEC/893)

Prereqs:
Permission

Group study of technology in agricultural occupations. Workshops, special meetings, and assignments.

Credit Hours: 1-12

Campus:

Course Delivery: Classroom

ALEC

897

Special Topics

[LINK \(http://bulletin.unl.edu/courses/ALEC/897\)](http://bulletin.unl.edu/courses/ALEC/897)

Readings, in-depth discussions and analysis of current theory, issues and problems, research and practice in leadership education and/or communication. Offered to address emerging topics not covered in other courses.

Credit Hours: 1-3

Course Format: Field, Lecture

Campus:

Course Delivery: Classroom

ALEC

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/ALEC/899\)](http://bulletin.unl.edu/courses/ALEC/899)

899

Prereqs:
 Admission to masters degree program and permission of major adviser

Credit Hours:	1-10
Max credits per degree:	10
Campus:	
Course Delivery:	Classroom

ALEC **901** **Leading Change in Rural America and Beyond**

[LINK \(http://bulletin.unl.edu/courses/ALEC/901\)](http://bulletin.unl.edu/courses/ALEC/901)

Prereqs:
 ALEC 801 (<http://bulletin.unl.edu/courses/ALEC/801>), 18 (<http://bulletin.unl.edu/courses/ALEC/18>) hours graduate credit, or permission

Skills in leading change in the 21st Century in rural communities and organizations. Strategies for planning, organizing, and institutionalizing change. Develop a change plan for a community or organization.

Credit Hours:	3
Course Format:	Field, Lecture
Campus:	
Course Delivery:	Classroom

ALEC **903** **Teacher Education in Agriscience**

[LINK \(http://bulletin.unl.edu/courses/ALEC/903\)](http://bulletin.unl.edu/courses/ALEC/903)

Preparation of agriscience teachers to supervise and mentor student teachers, evaluate/coach performance, and instructional delivery.

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ALEC **904** **Seminar in Leadership Studies**

[LINK \(http://bulletin.unl.edu/courses/ALEC/904\)](http://bulletin.unl.edu/courses/ALEC/904)

Ideas, theories, and practices on recent and emerging leadership research themes.

Credit Hours:	1
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

ALEC **906** **Theoretical Foundations of Distance Education**

[LINK \(http://bulletin.unl.edu/courses/ALEC/906\)](http://bulletin.unl.edu/courses/ALEC/906)

Prereqs:
 ALEC *806 recommended

Course is not offered at this time.

Major theoretical concepts and research finding of distance education, as broadly conceived. Emphasis on analyzing and deconstruction of major ideas influencing distance education in formal and non-formal settings.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ALEC **908** **Organization of the Agricultural Mechanics Program**

[LINK \(http://bulletin.unl.edu/courses/ALEC/908\)](http://bulletin.unl.edu/courses/ALEC/908)

Philosophy, objectives, procedures, and techniques used in organizing the program of agricultural mechanics instruction for secondary and post-high school students and adults. Determining units of instruction, evaluating student effort, procedures in shop instruction, selection of equipment, and

Credit Hours:	2-3
Course Format:	Lab, Lecture
Campus:	

ALEC
910

Leadership in Cross-cultural Systems

[LINK \(http://bulletin.unl.edu/courses/ALEC/910\)](http://bulletin.unl.edu/courses/ALEC/910)

Prereqs:
ALEC 801 (<http://bulletin.unl.edu/courses/ALEC/801>) recommended

Issues of leading people in the global marketplace. Focus on understanding the impact of cultural differences, comparing and contrasting domestic and multinational leadership challenges, and review of current multinational leadership.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ALEC
913

Program Development in Occupational Education

[LINK \(http://bulletin.unl.edu/courses/ALEC/913\)](http://bulletin.unl.edu/courses/ALEC/913)

Philosophy and objectives of occupational education. Techniques of program development, choosing instructional areas, determining sequences, planning time distributions, integrated course of study and meeting individual needs, youth activities.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ALEC
914

Leadership and Personality

[LINK \(http://bulletin.unl.edu/courses/ALEC/914\)](http://bulletin.unl.edu/courses/ALEC/914)

Course is not offered at this time.

Personality type and its implications for personal, team, and organizational leadership effectiveness.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

ALEC
995

Doctoral Seminar in Leadership Studies

[LINK \(http://bulletin.unl.edu/courses/ALEC/995\)](http://bulletin.unl.edu/courses/ALEC/995)

Prereqs:
Permission

Outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute, and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

ALEC
996

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/ALEC/996\)](http://bulletin.unl.edu/courses/ALEC/996)

Prereqs:
Permission

Research in selected problems in leadership education.

Credit Hours:	2-6
Campus:	
Course Delivery:	Classroom

ALEC
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/ALEC/999\)](http://bulletin.unl.edu/courses/ALEC/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55

Campus:	
Course Delivery:	Classroom

CYAF
845
Research in Leadership Education

Crosslisted as *ALEC 845*

[LINK \(http://bulletin.unl.edu/courses/CYAF/845\)](http://bulletin.unl.edu/courses/CYAF/845)

Steps in preparing a research proposal, including statement of the research question, review of relevant literature, and determination of an appropriate research design and methodology. Research methodology, including both quantitative and qualitative procedures.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

JOMC
444/844
Science Writing

Crosslisted as *ALEC 444*

[LINK \(http://bulletin.unl.edu/courses/JOMC/444\)](http://bulletin.unl.edu/courses/JOMC/444)

Prereqs:
Permission.

Open to all majors. Articles may be submitted for publication.

Advanced writing about science for the non-expert and/or for the general public. Issues in science communication through reading the best writers in science and journalism. Research and write short articles and longer profiles about science and scientists at the University of Nebraska-Lincoln (UNL) and elsewhere. Polish writing skills for doing work in science classes.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

NRES
428/828
Leadership in Public Organizations

Crosslisted as *ALEC 428*

[LINK \(http://bulletin.unl.edu/courses/NRES/428\)](http://bulletin.unl.edu/courses/NRES/428)

Prereqs:
Junior standing.

Leadership in theories, research, and practices in public organizations and natural resource agencies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
805
Advanced Teaching Strategies

Crosslisted as *ALEC 805, NUTR 806*

[LINK \(http://bulletin.unl.edu/courses/TEAC/805\)](http://bulletin.unl.edu/courses/TEAC/805)

This course is a prerequisite for: [ALEC 400 \(http://bulletin.unl.edu/courses/ALEC/400\)](http://bulletin.unl.edu/courses/ALEC/400)

Contemporary and innovative teaching strategies, emphasizing learner-centered instruction, suitable to teaching in college and postsecondary institutions, outreach programs public schools, and other settings. Students participate in active learning as they apply learning theory in practice, prepare and demonstrate teaching methods, and plan for instruction in discipline areas of their choice.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
905
Practicum in Postsecondary Teaching

Crosslisted as *ALEC 905*

[LINK \(http://bulletin.unl.edu/courses/TEAC/905\)](http://bulletin.unl.edu/courses/TEAC/905)

Prereqs:
ALEC *805 or permission

Work with a faculty mentor in a discipline of choice and an instructional supervisor to prepare instruction and teach students in a postsecondary setting. Practicum students are assisted in arranging for the practicum and are provided consultation and feedback during the practicum. Lesson planning and reflective papers are part of the practicum experience.

Credit Hours:	1-3
Course Format:	Lab
Campus:	
Course Delivery:	Classroom

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/LeadershipEducation). (<http://www.unl.edu/gradstudies/prospective/programs/LeadershipEducation>)

Department Head: Mark A. Balschweid, Ph.D.

Graduate Committee Chair: Assistant Professor Matkin

Web Site: alec.unl.edu

Master of Science in Leadership Education

Candidates for the degree must possess a bachelors degree from an accredited institution, The program welcomes applicants from a variety of disciplines and fields. The MS in leadership education may be earned in an area emphasis in Leadership Development or Teaching and Extension Education. Leadership Education students may also participate in the interdisciplinary specialization of Environmental Studies or Great Plains Studies. Programs are planned to meet individual student background experiences and desired graduate program goals. The degree may be earned by successfully completing a minimum of 30 credit hours (Option I) or 36 credit hours (Options II and III) beyond the bachelors degree. Option I includes a thesis. Option II is non-thesis and requires a minor from another department. Option III is a non-thesis, course based program. In Agricultural Leadership, Education and Communication, the degree may be pursued in the areas described below. The Graduate Record Exam (GRE) is required for admission to the MS program. International students must also submit a TOEFL iBT minimum of 79.

Leadership Development Emphasis. The Leadership Development emphasis immerses students in the increasingly complex area of leadership. The program is designed to enhance prior education and experience to prepare for careers related to leadership, organization or community development. Leadership courses offered range from the foundations of leadership to applications for leadership development, leadering change, community leadership and leadership in cross-cultural settings.

Teaching and Extension Education Specialization. The Teaching and Extension Education specialization prepares students for careers in community college or university teaching, public school teaching, outreach programs and Cooperative Extension. The specialization is valuable to international students planning teaching careers, as well as for individuals providing educational services. Teaching and extension courses range from teaching strategies to program planning and use of technology in education.

Leadership Studies Doctoral Specialization, Doctoral Program in Human Sciences

The Department offers a doctoral specialization in Leadership Studies within the Education and Human Sciences doctoral program. The EdD degree is recommended for those whose primary interest is in the application of theory and knowledge to improve leadership practice. Most EdD graduates pursue practitioner-based careers in the leadership field. The PhD is designed for students seeking to conduct research to generate new knowledge or reform leadership theory. Most PhD Graduate pursue faculty or high-level leadership careers. The most current information for the Leadership Studies Specialization is available online at alec.unl.edu.

For additional information see "Requirements for Doctoral Degrees" in the Education and Human Sciences Doctoral Program, under Human Sciences. The graduate Record Exam (GRE) is required for admission to the doctoral specialization. International students must also submit a TOEFL iBT minimum of 79.

For additional information regarding the programs listed above, please visit the Department of Agricultural Leadership, Education and Communication's Web site at alec.unl.edu or by contacting:

Department of Agricultural Leadership, Education and Communication
University of Nebraska-Lincoln
300 Agricultural Hall
PO Box 830709
Lincoln, NE 68583-0709
(402) 472-2807
email: ag-webmaster2@unl.edu

Faculty List

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/LeadershipEducation). (<http://www.unl.edu/gradstudies/prospective/programs/LeadershipEducation>)

Retrieved from "http://bulletin.unl.edu/graduate/Leadership_Education_%26_Leadership_Studies" (http://bulletin.unl.edu/graduate/Leadership_Education_%26_Leadership_Studies)"

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Management Information Systems and Technology

Courses for MIST (MIST)

MIST

452/852

Database Organization and Management

Crosslisted as *SCMS 452, MNGT 452/852*

LINK (<http://bulletin.unl.edu/courses/MIST/452>)

Prereqs:
MNGT/MIST 350 (<http://bulletin.unl.edu/courses/MIST/350>).

Database technology and related human and managerial considerations. Databases from two perspectives: the logical view, as the manager and applications programmer see and use the organization's data; and the physical view, as the systems software programmers and database manager view the data. Theory on database organization and the practical applications of databases.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

MIST **Information Systems Analysis and Design**

454/854

Crosslisted as *SCMS 454, MNGT 454/854*

[LINK \(http://bulletin.unl.edu/courses/MIST/454\)](http://bulletin.unl.edu/courses/MIST/454)

Prereqs:
MIST/MNGT 350 (<http://bulletin.unl.edu/courses/MNGT/350>).

Methods and methodologies used in systems analysis, design, and implementation. Decision-making process: systems development life cycles, requirement analysis, logical and/or conceptual design, and basic database concepts.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

MIST **Object-Oriented Systems Development**

456/856

Crosslisted as *SCMS 456, MNGT 456/856*

[LINK \(http://bulletin.unl.edu/courses/MIST/456\)](http://bulletin.unl.edu/courses/MIST/456)

Prereqs:
MIST/MNGT 350 (<http://bulletin.unl.edu/courses/MNGT/350>).

Object-orientation as an approach to developing information systems. Analysis, design and implementation of systems development from the object-oriented perspective. Concepts in object-orientation, and object-oriented methods and methodologies.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

MIST **Business Data Communications**

457/857

Crosslisted as *SCMS 457, MNGT 457/857*

[LINK \(http://bulletin.unl.edu/courses/MIST/457\)](http://bulletin.unl.edu/courses/MIST/457)

Prereqs:
MIST/MNGT 350 (<http://bulletin.unl.edu/courses/MNGT/350>).

Fundamentals of business data communications, networking hardware and software. Communication protocols such as TCP/IP, Internet and electronic commerce.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

MIST **Electronic Business**

458/858

Crosslisted as *SCMS 458, MNGT 458/858*

[LINK \(http://bulletin.unl.edu/courses/MIST/458\)](http://bulletin.unl.edu/courses/MIST/458)

Prereqs:
MIST/MNGT 350 (<http://bulletin.unl.edu/courses/MNGT/350>).

Management-related topics in electronic business. Conceptualizing and maintaining an e-business strategy. Economic impact of e-business strategies and management practices, models of e-business, electronic payment systems, Internet security, ethics and privacy, and advanced e-business trends and issues.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

MIST **Data Mining and Warehousing**

853

Crosslisted as *MNGT 853*

[LINK \(http://bulletin.unl.edu/courses/MIST/853\)](http://bulletin.unl.edu/courses/MIST/853)

Prereqs:
MNGT 950 (<http://bulletin.unl.edu/courses/MNGT/950>) or equivalent

Credit Hours: 3

course in statistics

Large scale data storage systems used in business. Statistical and data mining tools used for analyzing large sets of data. Sources of data that are internal and external to the organization. Primary data mining applications in business and demonstrated on representative data sets. Data warehouses, data marts, online analytic mining techniques used to support business operations. Application of actual software where possible.

Course Format: _____ Lecture 3

Campus: _____

Course Delivery: _____ Classroom

MNGT

Mobile and Ubiquitous Commerce

[LINK \(http://bulletin.unl.edu/courses/MNGT/455\)](http://bulletin.unl.edu/courses/MNGT/455)

455/855

Crosslisted as *SCMS 455, MIST 455/855*

Prereqs:

[MIST/MNGT 350 \(http://bulletin.unl.edu/courses/MNGT/350\)](http://bulletin.unl.edu/courses/MNGT/350).

The impact of wireless and mobile technology on the ways in which business is conducted and the strategic implications of wireless applications in organizations.

Credit Hours: _____ 3

Course Format: _____ Lecture 3

Course Delivery: _____ Classroom

MNGT

Global Information Systems

[LINK \(http://bulletin.unl.edu/courses/MNGT/459\)](http://bulletin.unl.edu/courses/MNGT/459)

459/859

Crosslisted as *SCMS 459, MIST 459/859*

The worldwide political and economic changes in the last decade that have propelled city, state, country governments, and corporations to expand business globally and enter into new markets. Information technology (IT) as a key role in the globalization of businesses. The necessary concepts and ideas to understand the issues in the global or international use of information technology. IT environments around the world, national infrastructures and regulatory regimes, global IT applications, global IS development strategies, global management support systems, and global IT management strategies.

Credit Hours: _____ 3

Course Format: _____ Lecture 3

Course Delivery: _____ Classroom

Q

Description

Please see the course list in "Courses"

Retrieved from "[http://bulletin.unl.edu/graduate/Management Information Systems and Technology](http://bulletin.unl.edu/graduate/Management%20Information%20Systems%20and%20Technology) ([http://bulletin.unl.edu/graduate/Management Information Systems and Technology](http://bulletin.unl.edu/graduate/Management%20Information%20Systems%20and%20Technology))"

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Mathematics

Q

Courses for MATH (MATH)

CSCE

Numerical Analysis I

[LINK \(http://bulletin.unl.edu/courses/CSCE/340\)](http://bulletin.unl.edu/courses/CSCE/340)

340/840

Crosslisted as *MATH 340/840*

Prereqs:

[CSCE 155A \(http://bulletin.unl.edu/courses/CSCE/155A\)](http://bulletin.unl.edu/courses/CSCE/155A), [CSCE 155E \(http://bulletin.unl.edu/courses/CSCE/155E\)](http://bulletin.unl.edu/courses/CSCE/155E), [CSCE 155H \(http://bulletin.unl.edu/courses/CSCE/155H\)](http://bulletin.unl.edu/courses/CSCE/155H), [CSCE 155N \(http://bulletin.unl.edu/courses/CSCE/155N\)](http://bulletin.unl.edu/courses/CSCE/155N), or [CSCE 155T \(http://bulletin.unl.edu/courses/CSCE/155T\)](http://bulletin.unl.edu/courses/CSCE/155T); [Math 107](#).

This course is a prerequisite for: [CSCE 447 \(http://bulletin.unl.edu/courses/CSCE/447\)](http://bulletin.unl.edu/courses/CSCE/447)

Credit toward the degree may be earned in only one of the following:
[CSCE/MATH 340 \(http://bulletin.unl.edu/courses/MATH/340/840\)](http://bulletin.unl.edu/courses/MATH/340/840)
[MATH 840 \(http://bulletin.unl.edu/courses/MATH/840\)](http://bulletin.unl.edu/courses/MATH/840) and [ENGM 480 \(http://bulletin.unl.edu/courses/ENGM/480\)](http://bulletin.unl.edu/courses/ENGM/480)
[ENGM 880 \(http://bulletin.unl.edu/courses/ENGM/880\)](http://bulletin.unl.edu/courses/ENGM/880).

Algorithm formulation for the practical solution of problems, interpolation,

Credit Hours: _____ 3

Max credits per degree: _____ 3

Course Format: _____ Lecture 3

Course Delivery: _____ Classroom

roots of equations, differentiation, and integration. Effects of finite precision.

CSCE
441/841 **Approximation of Functions**

[LINK \(http://bulletin.unl.edu/courses/CSCE/441\)](http://bulletin.unl.edu/courses/CSCE/441)

Crosslisted as *MATH 441/841*

Prereqs:

A programming language, [MATH 221](http://bulletin.unl.edu/courses/MATH/221) (<http://bulletin.unl.edu/courses/MATH/221>) and [314](http://bulletin.unl.edu/courses/MATH/314) (<http://bulletin.unl.edu/courses/MATH/314>).

Polynomial interpolation, uniform approximation, orthogonal polynomials, least-first-power approximation, polynomial and spline interpolation, approximation and interpolation by rational functions.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE
447/847 **Numerical Analysis II**

[LINK \(http://bulletin.unl.edu/courses/CSCE/447\)](http://bulletin.unl.edu/courses/CSCE/447)

Crosslisted as *MATH 447/847*

Prereqs:

[CSCE 340](http://bulletin.unl.edu/courses/CSCE/340) (<http://bulletin.unl.edu/courses/CSCE/340>), [MATH 221](http://bulletin.unl.edu/courses/MATH/221) (<http://bulletin.unl.edu/courses/MATH/221>) and [314](http://bulletin.unl.edu/courses/MATH/314) (<http://bulletin.unl.edu/courses/MATH/314>).

Numerical matrix methods and numerical solutions of ordinary differential equations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CSCE
942 **Numerical Analysis III**

[LINK \(http://bulletin.unl.edu/courses/CSCE/942\)](http://bulletin.unl.edu/courses/CSCE/942)

Crosslisted as *MATH 942*

Prereqs:

[CSCE/MATH 840](http://bulletin.unl.edu/courses/MATH/840) (<http://bulletin.unl.edu/courses/MATH/840>) or [841](http://bulletin.unl.edu/courses/MATH/841) (<http://bulletin.unl.edu/courses/MATH/841>) or [847](http://bulletin.unl.edu/courses/MATH/847) (<http://bulletin.unl.edu/courses/MATH/847>) or permission

Advanced topics in numerical analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
221/821 **Differential Equations**

[LINK \(http://bulletin.unl.edu/courses/MATH/221\)](http://bulletin.unl.edu/courses/MATH/221)

Prereqs:

A grade of "P" or "C" or better in [MATH 208](http://bulletin.unl.edu/courses/MATH/208) (<http://bulletin.unl.edu/courses/MATH/208>)/[208H](http://bulletin.unl.edu/courses/MATH/208H) (<http://bulletin.unl.edu/courses/MATH/208H>).

This course is a prerequisite for: [METR 812](http://bulletin.unl.edu/courses/METR/812) (<http://bulletin.unl.edu/courses/METR/812>), [MATH 324](http://bulletin.unl.edu/courses/MATH/324) (<http://bulletin.unl.edu/courses/MATH/324>), [MATH 427](http://bulletin.unl.edu/courses/MATH/427) (<http://bulletin.unl.edu/courses/MATH/427>), [CSCE 441](http://bulletin.unl.edu/courses/CSCE/441) (<http://bulletin.unl.edu/courses/CSCE/441>), [CSCE 447](http://bulletin.unl.edu/courses/CSCE/447) (<http://bulletin.unl.edu/courses/CSCE/447>), [ENGM 480](http://bulletin.unl.edu/courses/ENGM/480) (<http://bulletin.unl.edu/courses/ENGM/480>), [METR 880](http://bulletin.unl.edu/courses/METR/880) (<http://bulletin.unl.edu/courses/METR/880>), [MATH 489](http://bulletin.unl.edu/courses/MATH/489) (<http://bulletin.unl.edu/courses/MATH/489>), [METR 924](http://bulletin.unl.edu/courses/METR/924) (<http://bulletin.unl.edu/courses/METR/924>).

Not open to MA or MS students in mathematics or statistics.

First- and second-order methods for ordinary differential equations including: separable, linear, Laplace transforms, linear systems, and some applications.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	3?
Groups:	Advanced Mathematics Courses

MATH
Mathematical Methods for Biology and Medicine

[LINK \(http://bulletin.unl.edu/courses/MATH/238\)](http://bulletin.unl.edu/courses/MATH/238)

238/838

Prereqs:

Grade of P, C, or better in **MATH 106**

(<http://bulletin.unl.edu/courses/MATH/106/>)/106B

(<http://bulletin.unl.edu/courses/MATH/106B/>) or **MATH 108H**

(<http://bulletin.unl.edu/courses/MATH/108H/>).

*MATH 838 (<http://bulletin.unl.edu/courses/MATH/838/>) will not count toward a MA or MS degree in MATH or STAT. Some computation and visualizations in **MATH 238***

(<http://bulletin.unl.edu/courses/MATH/238/>)/838

(<http://bulletin.unl.edu/courses/MATH/838/>) will be done with Matlab.

Mathematical modeling, discrete and continuous probability, parameter estimation, discrete and continuous dynamical systems, and Markov chains. Application of mathematical models in the life sciences. Methods include regression analysis, cobweb diagrams, the phase line, nullcline analysis, eigenvalue analysis, linearization, and likelihood analysis. Applications include fisheries, stage-structured populations, pharmacokinetics, epidemiology, and medical testing.

Credit Hours:	5
Course Format:	Lecture 5
Course Delivery:	Classroom
ACE Outcomes:	3 [?]
Groups:	Advanced Mathematics Courses

MATH

Applied Linear Algebra (Matrix Theory)

[LINK \(http://bulletin.unl.edu/courses/MATH/314/\)](http://bulletin.unl.edu/courses/MATH/314/)

314/814

This course is a prerequisite for: **MATH 409** (<http://bulletin.unl.edu/courses/MATH/409/>).

MATH 415 (<http://bulletin.unl.edu/courses/MATH/415/>), **MATH 428**

(<http://bulletin.unl.edu/courses/MATH/428/>), **MECH 431**

(<http://bulletin.unl.edu/courses/MECH/431/>), **CSCE 432**

(<http://bulletin.unl.edu/courses/CSCE/432/>), **MATH 432**

(<http://bulletin.unl.edu/courses/MATH/432/>), **MATH 433**

(<http://bulletin.unl.edu/courses/MATH/433/>), **CSCE 439**

(<http://bulletin.unl.edu/courses/CSCE/439/>), **CSCE 470**

(<http://bulletin.unl.edu/courses/CSCE/470/>), **CSCE 477**

(<http://bulletin.unl.edu/courses/CSCE/477/>), **MATH 487**

(<http://bulletin.unl.edu/courses/MATH/487/>), **CSCE 970**

(<http://bulletin.unl.edu/courses/CSCE/970/>), **STAT 970**

(<http://bulletin.unl.edu/courses/STAT/970/>), **CSCE 973**

(<http://bulletin.unl.edu/courses/CSCE/973/>)

Not open to MA or MS students in mathematics or statistics

Fundamental concepts of linear algebra from the point of view of matrix manipulation with emphasis on concepts that are most important in applications. Includes solving systems of linear equations, vector spaces, inner products, determinants, eigenvalues, similarity of matrices, and Jordan Canonical Form.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	3 [?]
Groups:	Advanced Mathematics Courses

MATH

Advanced Calculus

[LINK \(http://bulletin.unl.edu/courses/MATH/322/\)](http://bulletin.unl.edu/courses/MATH/322/)

322/822

Not open to MA or MS students in mathematics or statistics

Uniform convergence of sequences and series of functions, Green's theorem, Stoke's theorem, divergence theorem, line integrals, implicit and inverse function theorems, and general coordinate transformations.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Advanced Mathematics Courses

MATH

Introduction to Partial Differential Equations

[LINK \(http://bulletin.unl.edu/courses/MATH/324/\)](http://bulletin.unl.edu/courses/MATH/324/)

324/824

Prereqs:

MATH 221 (<http://bulletin.unl.edu/courses/MATH/221/>).

Not open to MA or MS students in mathematics or statistics.

Credit Hours:	3
Course Delivery:	Classroom

Derivation of the heat, wave, and potential equations; separation of variables method of solution; solutions of boundary value problems by use of Fourier series, Fourier transforms, eigenfunction expansions with emphasis on the Bessel and Legendre functions; interpretations of solutions in various physical settings.

Groups: Advanced Mathematics Courses

MATH

409/809

Math for High School Teachers II, Using Math to Understand Our World [LINK \(http://bulletin.unl.edu/courses/MATH/409\)](http://bulletin.unl.edu/courses/MATH/409)

Prereqs:
Math 310, Math 314, Math 380/Stat 380

Not open to MA or MS students in Mathematics. This course is for students seeking a mathematics major under the Education Option and for students in CEHS who are seeking their secondary mathematics teaching certificate.

This course is designed around a series of projects in which students create mathematical models to examine the mathematics underlying several socially-relevant questions.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MATH

415/815

Theory of Linear Transformations [LINK \(http://bulletin.unl.edu/courses/MATH/415\)](http://bulletin.unl.edu/courses/MATH/415)

Prereqs:
Math 314/814 and either Math 325 or Math 310.

Topics fundamental to the study of linear transformations on finite and infinite dimensional vector spaces over the real and complex number fields including: subspaces, direct sums, quotient spaces, dual spaces, matrix of a transformation, adjoint map, invariant subspaces, triangularization and diagonalization. Additional topics may include: Riesz Representation theorem, projections, normal operators, spectral theorem, polar decomposition, singular value decomposition, determinant as an n-linear functional, Cayley-Hamilton theorem, nilpotent operators, and Jordan canonical form.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MATH

423/823

Introduction to Complex Variable Theory [LINK \(http://bulletin.unl.edu/courses/MATH/423\)](http://bulletin.unl.edu/courses/MATH/423)

Advanced introductory course for engineering, physical sciences, and mathematics majors. Complex numbers, functions of complex variables, analytic functions, complex integration, Cauchy's integral formulas, Taylor and Laurant series, calculus of residues and contour integration, conformal mappings, harmonic functions, and some applications.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Advanced Mathematics Courses

MATH

427/827

Mathematical Methods in the Physical Sciences [LINK \(http://bulletin.unl.edu/courses/MATH/427\)](http://bulletin.unl.edu/courses/MATH/427)

Prereqs:
[MATH 221 \(http://bulletin.unl.edu/courses/MATH/221\)](http://bulletin.unl.edu/courses/MATH/221).

Not open to mathematics majors. Not open to MA or MS students in mathematics.

Matrix operations, transformations, inverses, orthogonal matrices, rotations in space. Eigenvalues and eigenvectors, diagonalization, applications of diagonalization. Curvilinear coordinate systems, differential operations in curvilinear coordinate systems, Jacobians, changes of variables in multiple integration. Scalar, vector and tensor fields, tensor operations, applications or tensors. Complex function theory, integration by residues, conformal mappings.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Advanced Mathematics Courses

MATH

Principles of Operations Research[LINK \(http://bulletin.unl.edu/courses/MATH/428\)](http://bulletin.unl.edu/courses/MATH/428)**428/828****Prereqs:**

MATH 314 (<http://bulletin.unl.edu/courses/MATH/314>) and either **STAT 380** (<http://bulletin.unl.edu/courses/STAT/380>) or **IMSE 321** (<http://bulletin.unl.edu/courses/IMSE/321>) or equivalent.

Introduction to techniques and applications of operations research. Includes linear programming, queueing theory, decision analysis, network analysis, and simulation.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]
Groups:	Advanced Mathematics Courses

MATH

Linear Optimization[LINK \(http://bulletin.unl.edu/courses/MATH/432\)](http://bulletin.unl.edu/courses/MATH/432)**432/832****Prereqs:**

MATH 314 (<http://bulletin.unl.edu/courses/MATH/314>) / **814** (<http://bulletin.unl.edu/courses/MATH/814>).

Mathematical theory of linear optimization, convex sets, simplex algorithm, duality, multiple objective linear programs, formulation of mathematical models.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Advanced Mathematics Courses

MATH

Nonlinear Optimization[LINK \(http://bulletin.unl.edu/courses/MATH/433\)](http://bulletin.unl.edu/courses/MATH/433)**433/833****Prereqs:**

MATH 314 (<http://bulletin.unl.edu/courses/MATH/314>) / **814** (<http://bulletin.unl.edu/courses/MATH/814>).

Mathematical theory of constrained and unconstrained optimization, conjugate direction and quasi-Newton methods, convex functions, Lagrange multiplier theory, constraint qualifications.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Advanced Mathematics Courses

MATH

Mathematical Models in Biology[LINK \(http://bulletin.unl.edu/courses/MATH/439\)](http://bulletin.unl.edu/courses/MATH/439)**439/839****Prereqs:**

MATH 107 (<http://bulletin.unl.edu/courses/MATH/107>) or permission.

MATH 439 (<http://bulletin.unl.edu/courses/MATH/439>) / **839** (<http://bulletin.unl.edu/courses/MATH/839>) has a small laboratory component.

Discrete and continuous models in ecology, population models, predation and food webs, the spread of infectious diseases and life histories. Probability and random processes in nature, elementary models for molecular events, and pharmacokinetics.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Advanced Mathematics Courses

MATH

Introduction to the Theory of Numbers[LINK \(http://bulletin.unl.edu/courses/MATH/445\)](http://bulletin.unl.edu/courses/MATH/445)**445/845****Prereqs:**

MATH 310 (<http://bulletin.unl.edu/courses/MATH/310>) or **310H** (<http://bulletin.unl.edu/courses/MATH/310H>).

Arithmetic functions, congruences, reciprocity theorem, primitive roots, Diophantine equations, and continued fractions.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Advanced Mathematics Courses

MATH

Introduction to Mathematical Logic[LINK \(http://bulletin.unl.edu/courses/MATH/465\)](http://bulletin.unl.edu/courses/MATH/465)**465/865**

Semantical and syntactical developments of propositional logic, discussion of several propositional calculi, applications to Boolean algebra and related topics, semantics and syntax of first-order predicate logic including Godel's completeness theorem, the compactness theorem.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Advanced Mathematics Courses

MATH

Probability Theory[LINK \(http://bulletin.unl.edu/courses/MATH/487\)](http://bulletin.unl.edu/courses/MATH/487)**487/887**

Prereqs:
Math 314 and Math 325.

Probability, conditional probability, Bayes' theorem, independence, discrete and continuous random variables, density and distribution functions, multivariate distributions, probability and moment generating functions, the central limit theorem, convergence of sequences of random variables, random walks, Poisson processes. and applications.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MATH

Stochastic Processes and Advanced Mathematical Finance[LINK \(http://bulletin.unl.edu/courses/MATH/489\)](http://bulletin.unl.edu/courses/MATH/489)**489/889**

Prereqs:
[MATH 221 \(http://bulletin.unl.edu/courses/MATH/221\)](http://bulletin.unl.edu/courses/MATH/221)/[821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821), and/or [STAT/MATH 380 \(http://bulletin.unl.edu/courses/MATH/380\)](http://bulletin.unl.edu/courses/MATH/380) or [STAT 880 \(http://bulletin.unl.edu/courses/STAT/880\)](http://bulletin.unl.edu/courses/STAT/880).

Properties of stochastic processes and solutions of stochastic differential equations as a means of understanding modern financial instruments. Derivation and modeling of financial instruments, advanced financial models, advanced stochastic processes, partial differential equations, and numerical methods from a probabilistic point of view.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷
Groups:	Advanced Mathematics Courses

MATH

Seminar in Mathematics[LINK \(http://bulletin.unl.edu/courses/MATH/496\)](http://bulletin.unl.edu/courses/MATH/496)**496/896**

Prereqs:
Permission.

Credit Hours:	1-3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Seminars, Independent Study, Topics and Reading Courses

MATH

Number and Operation for K-3 Mathematics Specialists[LINK \(http://bulletin.unl.edu/courses/MATH/800P\)](http://bulletin.unl.edu/courses/MATH/800P)**800P**

Prereqs:
Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences

Credit Hours:	3
Course Format:	Lecture 3
Campus:	

Number and operations. Place value and its role in arithmetic operations. Development of fractions and number systems. Develop the habits of mind of a mathematical thinker and to develop a depth of understanding of number and operations sufficient to enable the teacher to be a disciplinary resource for other K-3 teachers.

Course Delivery: Classroom

MATH
800T Mathematics as a Second Language

LINK (<http://bulletin.unl.edu/courses/MATH/800T>)

Prereqs:
Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences

MATH 800T (<http://bulletin.unl.edu/courses/MATH/800T>) is intended for mid-level mathematics teachers.

Numbers and operations. Careful reasoning, problem solving, and communicating mathematics both orally and in writing. Connections with other areas of mathematics. Development of mathematical thinking habits.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MATH
801P Geometry, Measurement, and Algebraic Thinking for K-3 Mathematics Specialists

LINK (<http://bulletin.unl.edu/courses/MATH/801P>)

Prereqs:
Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences

Polygons, polyhedra, rigid motions, symmetry, congruence, similarity, measurement in one, two and three dimensions, functions, mathematical expressions, solving equations, sequences. Develop the habits of mind of a mathematical thinker and to develop a depth of understanding of geometry, measurement and algebraic thinking to enable the teacher to be a disciplinary resource for other K-3 teachers.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MATH
802P Number, Geometry and Algebraic Thinking II for K-3 Math Specialists

LINK (<http://bulletin.unl.edu/courses/MATH/802P>)

Prereqs:
Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences.

*MATH *802P will not count toward the MA or MS degree in mathematics or statistics.*

Number sense and operations in the context of rational numbers, geometry and algebra in grades 4-6 curriculum, and how the mathematical content in grades K-3 (e.g., Taylor-Cox, 2003) lays a foundation for abstract thinking beginning in grades 4 and beyond. Designed to develop a depth of understanding sufficient to enable the teacher to be a disciplinary resource to other K-3 teachers.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MATH
802T Functions, Algebra, and Geometry for Middle Level Teachers

LINK (<http://bulletin.unl.edu/courses/MATH/802T>)

Prereqs:
Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences

*MATH *802T is intended for mid-level mathematics teachers.*

Variables and functions. Use of functions in problem solving. Theory of measurement, especially length, area, and volume. Geometric modeling in algebra. Graphs, inverse functions, linear and quadratic functions, the fundamental theorem of arithmetic, modular arithmetic, congruence and similarity. Ways these concepts develop across the middle level curriculum.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MATH
804T

Experimentation, Conjecture and Reasoning

[LINK \(http://bulletin.unl.edu/courses/MATH/804T\)](http://bulletin.unl.edu/courses/MATH/804T)

Prereqs:

Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences

*MATH *804T is intended for middle-level mathematics teachers.*

Problem solving, reasoning and proof, and communicating mathematics. Development of problem solving skills through the extensive resources of the American Mathematics Competitions. Concepts of logical reasoning in the context of geometry, number patterns, probability and statistics

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
805T

Discrete Mathematics for Middle Level Teachers

[LINK \(http://bulletin.unl.edu/courses/MATH/805T\)](http://bulletin.unl.edu/courses/MATH/805T)

Prereqs:

Admission to the MAT-MScT program in MATH or to a graduate program in the College of Education and Human Sciences

*MATH *805T is intended for mid-level mathematics teachers.*

Concepts of discrete mathematics, as opposed to continuous mathematics, which extend in directions beyond, but related to, topics covered in middle-level curricula. Problems which build upon middle-level mathematics experiences. Logic, mathematical reasoning, induction, recursion, combinatorics, matrices, and graph theory.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MATH
806T

Number Theory and Cryptology for Middle Level Teachers

[LINK \(http://bulletin.unl.edu/courses/MATH/806T\)](http://bulletin.unl.edu/courses/MATH/806T)

Prereqs:

Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences

*MATH *806T is intended for mid-level mathematics teachers.*

Basic number theory results and the RSA cryptography algorithm. Primes, properties of congruences, divisibility tests, linear Diophantine equations, linear congruences, the Chinese Remainder Theorem, Wilson's Theorem, Fermat's Little Theorem, Euler's Theorem, and Euler's phi-function. Mathematical reasoning and integers' connections to the middle school curriculum.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
807

Mathematics for High School Teachers I

[LINK \(http://bulletin.unl.edu/courses/MATH/807\)](http://bulletin.unl.edu/courses/MATH/807)

Prereqs:

[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208) and [310 \(http://bulletin.unl.edu/courses/MATH/310\)](http://bulletin.unl.edu/courses/MATH/310)

Analysis of the connections between college mathematics and high school algebra and precalculus.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
807T

Using Mathematics to Understand Our World

[LINK \(http://bulletin.unl.edu/courses/MATH/807T\)](http://bulletin.unl.edu/courses/MATH/807T)

Prereqs:

Admission to the MAT-MScT program in MATH or to a graduate program in the College of Education and Human Sciences

Credit Hours:	3
Course Format:	Lecture 3

MATH *807T is intended for middle-level mathematics teachers.

The mathematics underlying several socially-relevant questions from a variety of academic disciplines. Construct mathematical models of the problems and study them using concepts developed from algebra, linear and exponential functions, statistics and probability. Original documentation, such as government data, reports and research papers, in order to provide a sense of the role mathematics plays in society, both past and present.

Campus:

Course Delivery: Classroom

MATH
808

Mathematics for High School Teachers II

[LINK \(http://bulletin.unl.edu/courses/MATH/808\)](http://bulletin.unl.edu/courses/MATH/808)

Prereqs:

MATH 310 (<http://bulletin.unl.edu/courses/MATH/310>) and 350 (<http://bulletin.unl.edu/courses/MATH/350>)

Analysis of the connections between college mathematics and high school algebra and geometry.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MATH
808T

Concepts of Calculus for Middle-Level Teachers

[LINK \(http://bulletin.unl.edu/courses/MATH/808T\)](http://bulletin.unl.edu/courses/MATH/808T)

Prereqs:

Admission to the MAT-MScT program in MATH or to a graduate program in the College of Education and Human Sciences

MATH *808T is intended for middle-level mathematics teachers.

The processes of differentiation and integration, their applications and the relationship between the two processes. Rates of change, slopes of tangent lines, limits, derivatives, extrema, derivatives of products and quotients, anti-derivatives, areas, integrals, and the Fundamental Theorem of Calculus. Connections to concepts in the middle level curriculum.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MATH
810T

Algebra for Algebra Teachers

[LINK \(http://bulletin.unl.edu/courses/MATH/810T\)](http://bulletin.unl.edu/courses/MATH/810T)

Prereqs:

Admission to the MAT or MScT program in mathematics or to a graduate program in the College of Education and Human Sciences

The integers. The Euclidean algorithm, the Fundamental Theorem of Arithmetics, and the integers mod n. Polynomials with coefficients in a field. The division algorithm, the Euclidean algorithm, the unique factorization theorem, and its applications. Polynomials whose coefficients are rational, real or complex. Polynomial interpolation. The habits of mind of a mathematical thinker. The conceptual underpinnings of school algebra.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MATH
811T

Functions for High School Teachers

[LINK \(http://bulletin.unl.edu/courses/MATH/811T\)](http://bulletin.unl.edu/courses/MATH/811T)

Prereqs:

A valid secondary mathematics teaching certificate or by permission.

Course examines mathematics underlying pre-calculus material through problem solving. Connections to other topics in mathematics, including algebra, geometry and advanced mathematics are highlighted.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

MATH
812T

Geometry for Geometry Teachers

[LINK \(http://bulletin.unl.edu/courses/MATH/812T\)](http://bulletin.unl.edu/courses/MATH/812T)

Prereqs:
A valid secondary mathematics teaching certificate.

Course examines mathematics underlying high school geometry through problem solving. Topics include Spherical, Euclidean and Hyperbolic geometry, introduction to Neutral geometry, Platonic and Archimedean solids and projective geometry.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MATH
816T Math in the City for Teachers

[LINK \(http://bulletin.unl.edu/courses/MATH/816T\)](http://bulletin.unl.edu/courses/MATH/816T)

Prereqs:
An undergraduate course in at least one of statistics, differential equations or matrix algebra; a valid secondary mathematics teaching certificate.

A modeling course run in collaboration with area businesses or organizations in which real world problems are studied. Course emphasizes how mathematics is used outside academia.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MATH
817 Introduction to Modern Algebra I

[LINK \(http://bulletin.unl.edu/courses/MATH/817\)](http://bulletin.unl.edu/courses/MATH/817)

Prereqs:
[MATH 417 \(http://bulletin.unl.edu/courses/MATH/417\)](http://bulletin.unl.edu/courses/MATH/417)

This course is a prerequisite for: [MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818), [CSCE 961 \(http://bulletin.unl.edu/courses/CSCE/961\)](http://bulletin.unl.edu/courses/CSCE/961), [CSCE 977 \(http://bulletin.unl.edu/courses/CSCE/977\)](http://bulletin.unl.edu/courses/CSCE/977)

Topics from elementary group theory and ring theory, including fundamental isomorphism theorems, ideals, quotient rings, domains. Euclidean or principal ideal rings, unique factorization, modules and vector spaces including direct sum decompositions, bases, and dual spaces.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MATH
818 Introduction to Modern Algebra II

[LINK \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818)

Prereqs:
[MATH 817 \(http://bulletin.unl.edu/courses/MATH/817\)](http://bulletin.unl.edu/courses/MATH/817)

This course is a prerequisite for: [MATH 901 \(http://bulletin.unl.edu/courses/MATH/901\)](http://bulletin.unl.edu/courses/MATH/901), [MATH 902 \(http://bulletin.unl.edu/courses/MATH/902\)](http://bulletin.unl.edu/courses/MATH/902), [MATH 905 \(http://bulletin.unl.edu/courses/MATH/905\)](http://bulletin.unl.edu/courses/MATH/905), [MATH 909 \(http://bulletin.unl.edu/courses/MATH/909\)](http://bulletin.unl.edu/courses/MATH/909), [MATH 913 \(http://bulletin.unl.edu/courses/MATH/913\)](http://bulletin.unl.edu/courses/MATH/913), [MATH 921 \(http://bulletin.unl.edu/courses/MATH/921\)](http://bulletin.unl.edu/courses/MATH/921), [MATH 922 \(http://bulletin.unl.edu/courses/MATH/922\)](http://bulletin.unl.edu/courses/MATH/922), [MATH 928 \(http://bulletin.unl.edu/courses/MATH/928\)](http://bulletin.unl.edu/courses/MATH/928), [MATH 929 \(http://bulletin.unl.edu/courses/MATH/929\)](http://bulletin.unl.edu/courses/MATH/929)

Topics from field theory including Galois theory and finite fields and from linear transformations including characteristic roots, matrices, canonical forms, trace and transpose, and determinants.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
825 Mathematical Analysis I

[LINK \(http://bulletin.unl.edu/courses/MATH/825\)](http://bulletin.unl.edu/courses/MATH/825)

Prereqs:
[MATH 325 \(http://bulletin.unl.edu/courses/MATH/325\)](http://bulletin.unl.edu/courses/MATH/325)

This course is a prerequisite for: [MATH 826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826)

Credit Hours:	3
Course Format:	Lecture 3
Campus:	

Real number system, topology of Euclidean space and metric spaces, continuous functions, derivatives and the mean value theorem, the Riemann and Riemann–Stieltjes integral, convergence, the uniformity concept, implicit functions, line and surface integrals.

Course Delivery: Classroom

MATH
826 Mathematical Analysis II

[LINK \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826)

Prereqs:
[MATH 825 \(http://bulletin.unl.edu/courses/MATH/825\)](http://bulletin.unl.edu/courses/MATH/825)

This course is a prerequisite for: [MATH 924 \(http://bulletin.unl.edu/courses/MATH/924\)](http://bulletin.unl.edu/courses/MATH/924), [MATH 925 \(http://bulletin.unl.edu/courses/MATH/925\)](http://bulletin.unl.edu/courses/MATH/925), [MATH 932 \(http://bulletin.unl.edu/courses/MATH/932\)](http://bulletin.unl.edu/courses/MATH/932), [MATH 933 \(http://bulletin.unl.edu/courses/MATH/933\)](http://bulletin.unl.edu/courses/MATH/933), [MATH 941 \(http://bulletin.unl.edu/courses/MATH/941\)](http://bulletin.unl.edu/courses/MATH/941)

Real number system, topology of Euclidean space and metric spaces, continuous functions, derivatives and the mean value theorem, the Riemann and Riemann–Stieltjes integral, convergence, the uniformity concept, implicit functions, line and surface integrals.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

MATH
830 Ordinary Differential Equations I

[LINK \(http://bulletin.unl.edu/courses/MATH/830\)](http://bulletin.unl.edu/courses/MATH/830)

Prereqs:
[MATH 325 \(http://bulletin.unl.edu/courses/MATH/325\)](http://bulletin.unl.edu/courses/MATH/325)

This course is a prerequisite for: [MATH 831 \(http://bulletin.unl.edu/courses/MATH/831\)](http://bulletin.unl.edu/courses/MATH/831)

The Picard existence theorem, linear equations and linear systems, Sturm separation theorems, boundary value problems, phase plane analysis, stability theory, limit cycles and periodic solutions.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

MATH
831 Ordinary Differential Equations II

[LINK \(http://bulletin.unl.edu/courses/MATH/831\)](http://bulletin.unl.edu/courses/MATH/831)

Prereqs:
[MATH 830 \(http://bulletin.unl.edu/courses/MATH/830\)](http://bulletin.unl.edu/courses/MATH/830)

The Picard existence theorem, linear equations and linear systems, Sturm separation theorems, boundary value problems, phase plane analysis, stability theory, limit cycles and periodic solutions.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

MATH
842 Methods of Applied Mathematics I

[LINK \(http://bulletin.unl.edu/courses/MATH/842\)](http://bulletin.unl.edu/courses/MATH/842)

Prereqs:
[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) and [814 \(http://bulletin.unl.edu/courses/MATH/814\)](http://bulletin.unl.edu/courses/MATH/814), or their equivalents

This course is a prerequisite for: [MATH 843 \(http://bulletin.unl.edu/courses/MATH/843\)](http://bulletin.unl.edu/courses/MATH/843), [MATH 938 \(http://bulletin.unl.edu/courses/MATH/938\)](http://bulletin.unl.edu/courses/MATH/938)

Interdependence between mathematics and the physical and applied sciences. Includes the calculus of variations, scaling and dimensional analysis, regular and singular perturbation methods.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MATH
843 Methods of Applied Mathematics II

[LINK \(http://bulletin.unl.edu/courses/MATH/843\)](http://bulletin.unl.edu/courses/MATH/843)

Prereqs:
[MATH 842 \(http://bulletin.unl.edu/courses/MATH/842\)](http://bulletin.unl.edu/courses/MATH/842) or permission

This course is a prerequisite for: [MATH 937 \(http://bulletin.unl.edu/courses/MATH/937\)](http://bulletin.unl.edu/courses/MATH/937)

Application of partial differential equation models to problems in the physical and applied sciences. Includes derivation of partial differential equations, the theory of continuous media, linear and nonlinear wave propagation, diffusion, transform methods, and potential theory.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MATH
850 Discrete Mathematics I

[LINK \(http://bulletin.unl.edu/courses/MATH/850\)](http://bulletin.unl.edu/courses/MATH/850)

Prereqs:
[MATH 310 \(http://bulletin.unl.edu/courses/MATH/310\)](http://bulletin.unl.edu/courses/MATH/310) or [325 \(http://bulletin.unl.edu/courses/MATH/325\)](http://bulletin.unl.edu/courses/MATH/325)

Enumeration of standard combinatorial objects (subsets, partitions, permutations). Structure and existence theorems for graphs and sub-graphs. Selected classes of error-correcting codes. Extremal combinatorics of graphs, codes, finite sets and posets.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MATH
852 Discrete Mathematics II

[LINK \(http://bulletin.unl.edu/courses/MATH/852\)](http://bulletin.unl.edu/courses/MATH/852)

Prereqs:
MATH *850

This course is a prerequisite for: [CSCE 924 \(http://bulletin.unl.edu/courses/CSCE/924\)](http://bulletin.unl.edu/courses/CSCE/924)

Enumeration of standard combinatorial objects (subsets, partitions, permutations). Structure and existence theorems for graphs and sub-graphs. Selected classes of error-correcting codes. Extremal combinatorics of graphs, codes, finite sets and posets.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MATH
856 Differential Topology

[LINK \(http://bulletin.unl.edu/courses/MATH/856\)](http://bulletin.unl.edu/courses/MATH/856)

Prereqs:
[MATH 471 \(http://bulletin.unl.edu/courses/MATH/471\)](http://bulletin.unl.edu/courses/MATH/471)/[871 \(http://bulletin.unl.edu/courses/MATH/871\)](http://bulletin.unl.edu/courses/MATH/871)

Introduction to a selection of topics in differentiable manifolds, smooth maps, vector fields and vector bundles, embeddings and immersions, differential forms, integration on manifolds, and applications.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MATH
858 Topics in Geometry

[LINK \(http://bulletin.unl.edu/courses/MATH/858\)](http://bulletin.unl.edu/courses/MATH/858)

Prereqs:
[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208)

Selected topics in some branch of geometry.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MATH
871 Topology I

[LINK \(http://bulletin.unl.edu/courses/MATH/871\)](http://bulletin.unl.edu/courses/MATH/871)

Prereqs:
[MATH 325 \(http://bulletin.unl.edu/courses/MATH/325\)](http://bulletin.unl.edu/courses/MATH/325) or [MATH 417 \(http://bulletin.unl.edu/courses/MATH/417\)](http://bulletin.unl.edu/courses/MATH/417)

Credit Hours: 3

Course Format: Lecture 3

This course is a prerequisite for: [MATH 872 \(http://bulletin.unl.edu/courses/MATH/872\)](http://bulletin.unl.edu/courses/MATH/872)

Topological spaces, continuous functions, product and quotient spaces, compactness and connectedness, homotopy, fundamental groups.

Campus:
Course Delivery: Classroom

MATH
872 **Topology II**

[LINK \(http://bulletin.unl.edu/courses/MATH/872\)](http://bulletin.unl.edu/courses/MATH/872)

Prereqs:
[MATH 871 \(http://bulletin.unl.edu/courses/MATH/871\)](http://bulletin.unl.edu/courses/MATH/871) and [MATH 417 \(http://bulletin.unl.edu/courses/MATH/417\)](http://bulletin.unl.edu/courses/MATH/417)

Fundamental groups and the van Kampen theorem, covering spaces and the Galois correspondence, applications to groups, homology and the Mayer-Vietoris theorem.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

MATH
874M **Mathematics Integration**

[LINK \(http://bulletin.unl.edu/courses/MATH/874M\)](http://bulletin.unl.edu/courses/MATH/874M)

*MATH *874M may be counted towards the MAT and MSCT degrees in mathematics and statistics, not the MA, MS, or PhD.*

Credit Hours: 2-3
Campus:
Course Delivery: Classroom

MATH
897 **Reading Course**

[LINK \(http://bulletin.unl.edu/courses/MATH/897\)](http://bulletin.unl.edu/courses/MATH/897)

Credit Hours: 1-4
Course Format: Lecture
Campus:
Course Delivery: Classroom

MATH
899 **Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/MATH/899\)](http://bulletin.unl.edu/courses/MATH/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10
Campus:
Course Delivery: Classroom

MATH
901 **Algebra I**

[LINK \(http://bulletin.unl.edu/courses/MATH/901\)](http://bulletin.unl.edu/courses/MATH/901)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818) or permission

This course is a prerequisite for: [MATH 953 \(http://bulletin.unl.edu/courses/MATH/953\)](http://bulletin.unl.edu/courses/MATH/953)

In-depth treatment of groups, rings, modules, algebraic field extensions, Galois theory, multilinear products, categories.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MATH
902 **Algebra II**

[LINK \(http://bulletin.unl.edu/courses/MATH/902\)](http://bulletin.unl.edu/courses/MATH/902)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818) or permission

Credit Hours: 3

This course is a prerequisite for: [MATH 915 \(http://bulletin.unl.edu/courses/MATH/915\)](http://bulletin.unl.edu/courses/MATH/915)

In-depth treatment of groups, rings, modules, algebraic field extensions, Galois theory, multilinear products, categories.

Campus:
Course Delivery: Classroom

MATH
905 **Commutative Algebra**

[LINK \(http://bulletin.unl.edu/courses/MATH/905\)](http://bulletin.unl.edu/courses/MATH/905)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818) or permission

Selected topics from classical ideal theory, Dedekind rings, completions, local rings, valuation theory.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MATH
909 **Theory of Semigroups**

[LINK \(http://bulletin.unl.edu/courses/MATH/909\)](http://bulletin.unl.edu/courses/MATH/909)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818) or permission

Selected topics from semigroups of transformations, ideal structure and homomorphisms, free semigroups, inverse semigroups, matrix representation, decompositions and extensions.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MATH
911 **Theory of Groups**

[LINK \(http://bulletin.unl.edu/courses/MATH/911\)](http://bulletin.unl.edu/courses/MATH/911)

Basic topics of infinite and finite group theory from among geometric, combinatorial, and algorithmic group theory, homology of groups, solvable and nilpotent groups and representation theory.

Credit Hours: 3-6
Max credits per degree: 18
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

MATH
913 **Introduction to the Theory of Rings**

[LINK \(http://bulletin.unl.edu/courses/MATH/913\)](http://bulletin.unl.edu/courses/MATH/913)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818)

Elementary ring theory and examples of rings, the Jacobson radical and the structure of semi-simple rings, rings with minimum condition, Wedderburn's theorem, structure of modules.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MATH
915 **Homological Algebra**

[LINK \(http://bulletin.unl.edu/courses/MATH/915\)](http://bulletin.unl.edu/courses/MATH/915)

Prereqs:
[MATH 902 \(http://bulletin.unl.edu/courses/MATH/902\)](http://bulletin.unl.edu/courses/MATH/902) or permission

Basic topics in homological algebra, including homology of complexes, extensions, tensor and torsion products and homological dimension, with application to rings and algebras.

Credit Hours: 3
Campus:
Course Delivery: Classroom

MATH
Topics in Algebra

[LINK \(http://bulletin.unl.edu/courses/MATH/918\)](http://bulletin.unl.edu/courses/MATH/918)

918

Credit Hours:	6
Max credits per degree:	18
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MATH **921** Real Analysis I

[LINK \(http://bulletin.unl.edu/courses/MATH/921\)](http://bulletin.unl.edu/courses/MATH/921)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818), [826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826), and [871 \(http://bulletin.unl.edu/courses/MATH/871\)](http://bulletin.unl.edu/courses/MATH/871) or permission

Semicontinuity, equicontinuity, absolute continuity, metric spaces, compact spaces, Ascoli's theorem, Stone Weierstrass theorem, Borel and Lebesgue measures, measurable functions, Lebesgue integration, convergence theorems, Lp spaces, general measure and integration theory, Radon-Nikodym theorem, Fubini theorem, Lebesgue-Stieltjes integration.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH **922** Real Analysis II

[LINK \(http://bulletin.unl.edu/courses/MATH/922\)](http://bulletin.unl.edu/courses/MATH/922)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818), [826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826), and [871 \(http://bulletin.unl.edu/courses/MATH/871\)](http://bulletin.unl.edu/courses/MATH/871) or permission

Semicontinuity, equicontinuity, absolute continuity, metric spaces, compact spaces, Ascoli's theorem, Stone Weierstrass theorem, Borel and Lebesgue measures, measurable functions, Lebesgue integration, convergence theorems, Lp spaces, general measure and integration theory, Radon-Nikodym theorem, Fubini theorem, Lebesgue-Stieltjes integration.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH **923** Topics in Analysis

[LINK \(http://bulletin.unl.edu/courses/MATH/923\)](http://bulletin.unl.edu/courses/MATH/923)

Credit Hours:	6
Max credits per degree:	18
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MATH **924** Theory of Analytic Functions I

[LINK \(http://bulletin.unl.edu/courses/MATH/924\)](http://bulletin.unl.edu/courses/MATH/924)

Prereqs:
[MATH 826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826) or permission

Complex number field, elementary functions, analytic functions, conformal mapping, integration and calculus of residues, entire and meromorphic functions, higher transcendental functions, Riemann surfaces.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
925

Theory of Analytic Functions II

[LINK \(http://bulletin.unl.edu/courses/MATH/925\)](http://bulletin.unl.edu/courses/MATH/925)

Prereqs:
[MATH 826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826) or permission

Complex number field, elementary functions, analytic functions, conformal mapping, integration and calculus of residues, entire and meromorphic functions, higher transcendental functions, Riemann surfaces.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
927

Asymptotic Methods in Applied Mathematics

[LINK \(http://bulletin.unl.edu/courses/MATH/927\)](http://bulletin.unl.edu/courses/MATH/927)

Methods for approximating the solutions of differential equations, including local analysis near singular points, singular perturbation methods, boundary layer theory, WKB Theory, and multiple-scale methods. Asymptotic expansion of Laplace and Fourier integrals. Illustration of the use of asymptotics from journals in mathematics, science, and engineering.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
928

Functional Analysis I

[LINK \(http://bulletin.unl.edu/courses/MATH/928\)](http://bulletin.unl.edu/courses/MATH/928)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818) and [921 \(http://bulletin.unl.edu/courses/MATH/921\)](http://bulletin.unl.edu/courses/MATH/921), or permission

Banach and Hilbert Spaces, linear operators and functionals, completely continuous operators, spectral theory, integral equations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
929

Functional Analysis II

[LINK \(http://bulletin.unl.edu/courses/MATH/929\)](http://bulletin.unl.edu/courses/MATH/929)

Prereqs:
[MATH 818 \(http://bulletin.unl.edu/courses/MATH/818\)](http://bulletin.unl.edu/courses/MATH/818) and [921 \(http://bulletin.unl.edu/courses/MATH/921\)](http://bulletin.unl.edu/courses/MATH/921), or permission

Banach and Hilbert Spaces, linear operators and functionals, completely continuous operators, spectral theory, integral equations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
932

Advanced Ordinary Differential Equations I

[LINK \(http://bulletin.unl.edu/courses/MATH/932\)](http://bulletin.unl.edu/courses/MATH/932)

Prereqs:
[MATH 826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826) or permission

Cauchy–Peano existence theorems, continuity and differentiability of solutions with respect to initial conditions, differential inequalities, uniqueness theorem, oscillation theory, Poincare–Bendixson theory, stability theory, almost periodic solutions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
933

Advanced Ordinary Differential Equations II

[LINK \(http://bulletin.unl.edu/courses/MATH/933\)](http://bulletin.unl.edu/courses/MATH/933)

Prereqs:
[MATH 826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826) or permission

Cauchy–Peano existence theorems, continuity and differentiability of solutions with respect to initial conditions, differential inequalities,

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

uniqueness theorem, oscillation theory, Poincare–Bendixson theory, stability theory, almost periodic solutions.

MATH
934

Topics in Differential Equations

[LINK \(http://bulletin.unl.edu/courses/MATH/934\)](http://bulletin.unl.edu/courses/MATH/934)

Credit Hours:	6
Max credits per degree:	18
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MATH
935

Advanced Methods in Applied Mathematics I

[LINK \(http://bulletin.unl.edu/courses/MATH/935\)](http://bulletin.unl.edu/courses/MATH/935)

Prereqs:

[MATH 821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821) and [826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826)

This course is a prerequisite for: [MATH 936 \(http://bulletin.unl.edu/courses/MATH/936\)](http://bulletin.unl.edu/courses/MATH/936)

Banach and Hilbert spaces, operator theory with application to differential and integral equations; spectral theory for compact, self-adjoint operators.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
936

Advanced Methods in Applied Mathematics II

[LINK \(http://bulletin.unl.edu/courses/MATH/936\)](http://bulletin.unl.edu/courses/MATH/936)

Prereqs:

[MATH 935 \(http://bulletin.unl.edu/courses/MATH/935\)](http://bulletin.unl.edu/courses/MATH/935) or permission

Distributions, Green's functions and boundary value problems; integral transforms and spectral representations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
937

Nonlinear Partial Differential Equations

[LINK \(http://bulletin.unl.edu/courses/MATH/937\)](http://bulletin.unl.edu/courses/MATH/937)

Prereqs:

[MATH 843 \(http://bulletin.unl.edu/courses/MATH/843\)](http://bulletin.unl.edu/courses/MATH/843) or [941 \(http://bulletin.unl.edu/courses/MATH/941\)](http://bulletin.unl.edu/courses/MATH/941) or permission

Nonlinear wave propagation and shock structure with applications, dispersive waves, hyperbolic systems, group velocity and the method of stationary phase. WKB approximation and perturbation methods.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
938

Mathematical Modeling

[LINK \(http://bulletin.unl.edu/courses/MATH/938\)](http://bulletin.unl.edu/courses/MATH/938)

Prereqs:

[MATH 842 \(http://bulletin.unl.edu/courses/MATH/842\)](http://bulletin.unl.edu/courses/MATH/842), [843 \(http://bulletin.unl.edu/courses/MATH/843\)](http://bulletin.unl.edu/courses/MATH/843) and permission

Advanced course in mathematical modeling for students who desire experience in formulating and analyzing open-ended, real-world problems in the natural and applied sciences. Participation in a few group projects that require conceptualization and analytical, numerical, and graphical analysis with formal oral and written presentation of the results.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
939

Topics in Applied Mathematics

[LINK \(http://bulletin.unl.edu/courses/MATH/939\)](http://bulletin.unl.edu/courses/MATH/939)

Credit Hours:	6
Max credits per degree:	18
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MATH
941

Partial Differential Equations

[LINK \(http://bulletin.unl.edu/courses/MATH/941\)](http://bulletin.unl.edu/courses/MATH/941)

Prereqs:
[MATH 826 \(http://bulletin.unl.edu/courses/MATH/826\)](http://bulletin.unl.edu/courses/MATH/826)

Theory of hyperbolic, elliptic, and parabolic equations. Classification, existence and uniqueness result, solution representations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
953

Algebraic Geometry

[LINK \(http://bulletin.unl.edu/courses/MATH/953\)](http://bulletin.unl.edu/courses/MATH/953)

Prereqs:
[MATH 901-902](#)

Affine geometry, coordinate rings, the Zariski topology, function fields and birational geometry, the Nullstellensatz, Krull dimension and transcendence degree, smoothness, projective geometry, divisors, curves.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MATH
958

Topics in Discrete Mathematics

[LINK \(http://bulletin.unl.edu/courses/MATH/958\)](http://bulletin.unl.edu/courses/MATH/958)

Credit Hours:	6
Max credits per degree:	18
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MATH
990

Topics in Topology

[LINK \(http://bulletin.unl.edu/courses/MATH/990\)](http://bulletin.unl.edu/courses/MATH/990)

Credit Hours:	6
Max credits per degree:	18
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MATH
995

Research Seminar

[LINK \(http://bulletin.unl.edu/courses/MATH/995\)](http://bulletin.unl.edu/courses/MATH/995)

Credit Hours:	1-3
Max credits per degree:	6

Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MATH
996 Seminar

[LINK \(http://bulletin.unl.edu/courses/MATH/996\)](http://bulletin.unl.edu/courses/MATH/996)

Advanced topics in one or more branches of mathematics.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

MATH
997 Reading course

[LINK \(http://bulletin.unl.edu/courses/MATH/997\)](http://bulletin.unl.edu/courses/MATH/997)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

MATH
999 Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/MATH/999\)](http://bulletin.unl.edu/courses/MATH/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

Ω

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Mathematics). (<http://www.unl.edu/gradstudies/prospective/programs/Mathematics>)

Department Chair: Judy Walker, Ph.D.

Interim Graduate Committee Chair: Richard Rebarber, Ph.D.

Graduate work is offered leading to the degrees of doctor of philosophy (PhD), master of arts (MA), master of science (MS), master of arts for teachers (MAT), and master of science for teachers (MScT).

Master of Arts (MA) or Master of Science (MS) Degree.

The program of study for the masters degree may be under any of the Options I, II, III. Under Option II, a candidate for the MA or MS degree may select a minor consisting of courses taken in another department approved to offer a masters degree.

For admission to full graduate standing a student should have the substantial equivalent of an undergraduate major in mathematics and possess an academic record that would indicate definite potential for graduate-level work.

Master of Arts or Master of Science for Teachers (MAT-MScT).

The MAT/MScT degree is designed for teachers who want to obtain graduate education in mathematics that is especially appropriate to their needs as mathematics teachers. Special courses or sections of courses bearing a "T" designation are offered specifically for persons in the program. The Department admits students to two programs leading to the MAT/MScT degree. One is for high school teachers. For that program, a completed calculus sequence, a course in modern algebra, and two other courses beyond calculus are required for admission. The other program is for middle-level mathematics teachers and leads to a masters degree with a Specialization in the Teaching of Middle-Level Mathematics. For both programs, the possession of a valid teaching certificate is a prerequisite to the award of the degree.

Doctor of Philosophy Degree.

Doctoral candidates will find departmental strengths in many areas of mathematics. A student may be admitted to the PhD program either initially, as for the masters program, or after completion of a masters degree. To become a Candidate for the PhD degree the student must pass written qualifying examinations and a comprehensive examination that is determined by the student's supervisory committee. There is also a foreign language requirement but the supervisory

committee can request a waiver in many situations. The degree is awarded as recognition of high attainment in scholarship and for demonstrated power of independent research. An interdisciplinary PhD program in Mathematics and Computer Science is also offered.

Specific details on any of the advanced degree programs can be obtained from the Chair of the Graduate Committee.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Mathematics). (<http://www.unl.edu/gradstudies/prospective/programs/Mathematics>)

Retrieved from "<http://bulletin.unl.edu/graduate/Mathematics> (<http://bulletin.unl.edu/graduate/Mathematics>)"

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Mechanized Systems Management

Courses for MSYM (MSYM)

AGRO 475/875	Water Quality Strategy	LINK (http://bulletin.unl.edu/courses/AGRO/475)
Crosslisted as <i>POLS 475/875, SOCI 475/875, GEOL 475/875, CIVE 475/875, SOIL 475, NRES 475/875, WATS 475, MSYM 475/875, CRPL 475/875</i>		
Prereqs: Senior standing or permission.		
<i>Capstone course.</i>		
Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating present strategies.		
		Credit Hours: 3
		Course Format: Lecture 3
		Course Delivery: Classroom
		ACE Outcomes: 10 ⁷

FDST 465/865	Food Engineering Unit Operations	LINK (http://bulletin.unl.edu/courses/FDST/465)
Crosslisted as <i>MSYM 465/865</i>		
Prereqs: FDST/MSYM 363 (http://bulletin.unl.edu/courses/MSYM/363).		
Unit operations and their applications to food processing.		
		Credit Hours: 3
		Course Format: Lecture 2, Lab 3
		Course Delivery: Classroom

MSYM 433/833	Equipment and Tractor Testing	LINK (http://bulletin.unl.edu/courses/MSYM/433)
Prereqs: MSYM 312 (http://bulletin.unl.edu/courses/MSYM/312) and STAT 218 (http://bulletin.unl.edu/courses/STAT/218).		
<i>Offered fall semester of even-numbered calendar years.</i>		
Principles and procedures involved in testing agricultural equipment and tractors. Actual test planned, scheduled, conducted and reported. Test may be based upon procedures used at the Nebraska Tractor Testing Laboratory or involve other equipment being used for research in the department.		
		Credit Hours: 3
		Course Format: Lecture 2, Lab 2
		Course Delivery: Classroom

MSYM 452/852	Irrigation Systems Management	LINK (http://bulletin.unl.edu/courses/MSYM/452)
Crosslisted as <i>HORT 452/852, WATS 452</i>		
Prereqs: MSYM 109 (http://bulletin.unl.edu/courses/MSYM/109) or general physics; AGRO/SOIL 153 (http://bulletin.unl.edu/courses/SOIL/153) recommended.		
		Credit Hours: 3
		Course Format: Lecture 2, Lab 2
		Course Delivery: Classroom

Irrigation management and the selection, evaluation, and improvement of irrigation systems. Includes soil–water measurement, crop water use, irrigation scheduling, irrigation efficiency, measurement of water flow, irrigation systems, groundwater and wells, pumping systems, applying chemicals with irrigation systems, and environmental and water resource considerations. Two laboratory sections are available; one which emphasizes agricultural applications and one which emphasizes horticultural applications.

MSYM

Equipment Systems

[LINK \(http://bulletin.unl.edu/courses/MSYM/462\)](http://bulletin.unl.edu/courses/MSYM/462)

462/862

Prereqs:
Senior standing in MYSM or permission.

Capstone course.

Team–based activities to evaluate equipment systems, make technical and economic recommendations, develop professional written and oral reports. Topics include equipment system performance and management, project scheduling and planning, cost estimation, reliability analysis, and risk assessment.

Credit Hours:	3
Course Format:	Lecture 2, Recitation 2
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

MSYM

Principles and Problems in Mechanized Agriculture

[LINK \(http://bulletin.unl.edu/courses/MSYM/496\)](http://bulletin.unl.edu/courses/MSYM/496)

496/896

Prereqs:
15 hours in MSYM or closely related area.

Individual or group projects in research, literature review, or extension of course work under the supervision and evaluation of a departmental faculty member.

Credit Hours:	1–5
Max credits per degree:	12
Course Delivery:	Classroom

MSYM

Hydraulic Power Systems

[LINK \(http://bulletin.unl.edu/courses/MSYM/812\)](http://bulletin.unl.edu/courses/MSYM/812)

812

Prereqs:
MSYM 245 (<http://bulletin.unl.edu/courses/MSYM/245>) and 312 (<http://bulletin.unl.edu/courses/MSYM/312>)

Theory and application of fluids under controlled pressure to perform work in mobile and industrial applications. Operation of components and functional planning of circuits with emphasis on troubleshooting and analysis.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

MSYM

Sensors and Control Systems for Agri–Industries

[LINK \(http://bulletin.unl.edu/courses/MSYM/816\)](http://bulletin.unl.edu/courses/MSYM/816)

816

Prereqs:
MSYM 245 (<http://bulletin.unl.edu/courses/MSYM/245>) or permission

Application of sensors for measurement of process control variables and implementation of microcomputer–based measurement and control systems. Basic electrical and electronic instrumentation plus control of electrically, pneumatically and/or hydraulically powered systems.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

MSYM

Mechanized Agricultural Systems

[LINK \(http://bulletin.unl.edu/courses/MSYM/832\)](http://bulletin.unl.edu/courses/MSYM/832)

832

Prereqs:

Credit Hours:	3
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Permission

Offered odd-numbered calendar years. Advanced concepts of equipment used in agriculture. Site specific management (precision agriculture). Hardware development and information technologies applied to generic agricultural production.

Campus:	
Course Delivery:	Classroom

MSYM 855 Advanced Irrigation Management

[LINK \(http://bulletin.unl.edu/courses/MSYM/855\)](http://bulletin.unl.edu/courses/MSYM/855)

Prereqs:
[MSYM 852 \(http://bulletin.unl.edu/courses/MSYM/852\)](http://bulletin.unl.edu/courses/MSYM/852) or equivalent;
[AGRO 861 \(http://bulletin.unl.edu/courses/AGRO/861\)](http://bulletin.unl.edu/courses/AGRO/861) recommended

Theory and practice in on-farm irrigation management including irrigation response functions and irrigation uniformity concepts; field evaluation of surface and sprinkler irrigation systems; estimation of evapotranspiration and irrigation scheduling; water quality problems and salinity control.

Credit Hours:	3
Course Format:	Lab 2, Lecture 2
Campus:	
Course Delivery:	Classroom

MSYM 898 Special Projects in Management of Mechanized Systems

[LINK \(http://bulletin.unl.edu/courses/MSYM/898\)](http://bulletin.unl.edu/courses/MSYM/898)

Prereqs:
15 hours in mechanized systems management or closely related area

Individual project specifically designed for a student to pursue or explore a special topic under the guidance and evaluation of a faculty member.

Credit Hours:	1-5
Campus:	
Course Delivery:	Classroom

MSYM 899 Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/MSYM/899\)](http://bulletin.unl.edu/courses/MSYM/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

NRES 469/869 Bio-Atmospheric Instrumentation

[LINK \(http://bulletin.unl.edu/courses/NRES/469\)](http://bulletin.unl.edu/courses/NRES/469)

Crosslisted as *GEOG 469/869, METR 469/869, HORT 407/807, AGRO 469/869, MSYM 469/869*

Prereqs:
Junior standing; [MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106); 4 hrs physics; physical or biological science major.

Offered fall semester of odd-numbered calendar years.

Discussion and practical application of principles and practices of measuring meteorological and related variables near the earth's surface including temperature, humidity, precipitation, pressure, radiation and wind. Performance characteristics of sensors and modern data collection methods are discussed and evaluated.

Credit Hours:	3
Course Format:	Lecture 2, Lab 1
Course Delivery:	Classroom

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/AgAndBioSystemsEngr\)](http://www.unl.edu/gradstudies/prospective/programs/AgAndBioSystemsEngr)

Department Head: Ronald Yoder, Ph.D.

Graduate Committee: Professors Eisenhauer (Chair), Hanna, Associate Professors Bashford, Irmak, Woldt; Assistant Professor Keshwani

The Department of Biological Systems Engineering offers the master of science with a major in mechanized systems management.

Students wishing to pursue graduate degrees in mechanized systems management must meet the admission requirements in agricultural sciences and natural resources. Graduate study in this area may be directed to the mechanization, processing, and business field of agriculture power and machinery systems, soil and water conservation, irrigation systems and water management, water quality, plant and animal environment, materials handling and processing systems, computer applications, sensors, controls, and other areas of technical and applied operations as related to agricultural and biological sciences.

Masters Degree.

Graduate programs leading to the degree of master of science with a major in mechanized systems management are governed by the general requirements for graduate degrees and the rules of the Graduate College. With approval of the departmental Graduate Committee and the Graduate Council, course work at the graduate level from other areas of agriculture may be used as part of the course work constituting a major in mechanized systems management.

In addition to the Graduate College requirements for graduate degrees, BSEN 989 (Seminar) is required as a portion of the major. With approval of the departmental Graduate Committee, up to 6 hours of biological systems engineering (in addition to 989) and up to 4 hours of agricultural statistics course work at the graduate level may be used as part of the course work constituting a major in mechanized systems management.

A specialization in Water Resources Planning and Management is available.

Faculty

For faculty list, research interests and department/college contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/AqAndBioSystemsEngr). (<http://www.unl.edu/gradstudies/prospective/programs/AqAndBioSystemsEngr>)

Retrieved from "http://bulletin.unl.edu/graduate/Mechanized_Systems_Management (http://bulletin.unl.edu/graduate/Mechanized_Systems_Management)"
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Modern Languages and Literatures

Subject Areas

- [French \(FREN\) \(#FREN\)](#)
- [German \(GERM\) \(#GERM\)](#)
- [Modern Languages \(MODL\) \(#MODL\)](#)
- [Russian \(RUSS\) \(#RUSS\)](#)
- [Spanish \(SPAN\) \(#SPAN\)](#)

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Courses for FREN (FREN)

FREN 403/803	Advanced Grammar	LINK (http://bulletin.unl.edu/courses/FREN/403)				
Prereqs: FREN 303 (http://bulletin.unl.edu/courses/FREN/303) and 304 (http://bulletin.unl.edu/courses/FREN/304) .	Detailed analysis of French syntax giving students the means to achieve greater sophistication in self-expression.	<table><tbody><tr><td>Credit Hours:</td><td>3</td></tr><tr><td>Course Delivery:</td><td>Classroom</td></tr></tbody></table>	Credit Hours:	3	Course Delivery:	Classroom
Credit Hours:	3					
Course Delivery:	Classroom					
FREN 404/804	French Stylistics	LINK (http://bulletin.unl.edu/courses/FREN/404)				
Prereqs: FREN 304 (http://bulletin.unl.edu/courses/FREN/304) .	Principles of explication of texts, translation and composition in French, review of linguistic principles, for advanced students, particularly prospective teachers, who wish to acquire a more sophisticated means of expression in French.	<table><tbody><tr><td>Credit Hours:</td><td>3</td></tr><tr><td>Course Delivery:</td><td>Classroom</td></tr></tbody></table>	Credit Hours:	3	Course Delivery:	Classroom
Credit Hours:	3					
Course Delivery:	Classroom					
FREN 406/806	Translation	LINK (http://bulletin.unl.edu/courses/FREN/406)				

Prereqs:
[FREN 303 \(http://bulletin.unl.edu/courses/FREN/303\)](http://bulletin.unl.edu/courses/FREN/303) and [304 \(http://bulletin.unl.edu/courses/FREN/304\)](http://bulletin.unl.edu/courses/FREN/304).

Credit Hours: 3

Course Delivery: Classroom

Principles of translation, French–English and English–French. Attention to problems of vocabulary, syntax, semantics, and technical, literary, and commercial translation.

FREN Topics in French Civilization

[LINK \(http://bulletin.unl.edu/courses/FREN/422\)](http://bulletin.unl.edu/courses/FREN/422)

422/822

Prereqs:
6 hrs at the 300 level.

Credit Hours: 3

Course Delivery: Classroom

Analysis of interrelationships of cultural, social, economic, and political factors contributing to French culture and civilization.

FREN French Literary Treasures of the Middle Ages

[LINK \(http://bulletin.unl.edu/courses/FREN/441\)](http://bulletin.unl.edu/courses/FREN/441)

441/841

Prereqs:
[FREN 301 \(http://bulletin.unl.edu/courses/FREN/301\)](http://bulletin.unl.edu/courses/FREN/301) and [302 \(http://bulletin.unl.edu/courses/FREN/302\)](http://bulletin.unl.edu/courses/FREN/302), or permission.

Credit Hours: 3

Course Delivery: Classroom

French medieval short story, epic, novel, farce, satire, read in modern French. May include the Song of Roland, *Lais*, of Marie de France, *Tristan*, a romance by Chr *Ætâ€™fâ€šÅ©tien de Troyes* such as *Ecre et Enide*, the satire of *Aucassin et Nicolette*, the farce of *Pathelin*, Villon's *Testament*.

FREN Seventeenth Century

[LINK \(http://bulletin.unl.edu/courses/FREN/445\)](http://bulletin.unl.edu/courses/FREN/445)

445/845

Prereqs:
[FREN 301 \(http://bulletin.unl.edu/courses/FREN/301\)](http://bulletin.unl.edu/courses/FREN/301) and [302 \(http://bulletin.unl.edu/courses/FREN/302\)](http://bulletin.unl.edu/courses/FREN/302) or permission.

Credit Hours: 3

Course Delivery: Classroom

ACE Outcomes: 10[?]

The plays of Corneille, Moliere, Racine.

FREN Seventeenth Century

[LINK \(http://bulletin.unl.edu/courses/FREN/446\)](http://bulletin.unl.edu/courses/FREN/446)

446/846

Prereqs:
[FREN 301 \(http://bulletin.unl.edu/courses/FREN/301\)](http://bulletin.unl.edu/courses/FREN/301) and [302 \(http://bulletin.unl.edu/courses/FREN/302\)](http://bulletin.unl.edu/courses/FREN/302) or permission.

Credit Hours: 3

Course Delivery: Classroom

ACE Outcomes: 10[?]

Prose and poetry.

FREN Eighteenth Century I

[LINK \(http://bulletin.unl.edu/courses/FREN/449\)](http://bulletin.unl.edu/courses/FREN/449)

449/849

Prereqs:
[FREN 301 \(http://bulletin.unl.edu/courses/FREN/301\)](http://bulletin.unl.edu/courses/FREN/301) and [302 \(http://bulletin.unl.edu/courses/FREN/302\)](http://bulletin.unl.edu/courses/FREN/302) or equivalent.

Credit Hours: 3

Course Delivery: Classroom

ACE Outcomes: 10[?]

Philosophical writings and the theatre of eighteenth-century France.

FREN Eighteenth Century II

[LINK \(http://bulletin.unl.edu/courses/FREN/450\)](http://bulletin.unl.edu/courses/FREN/450)

450/850

Prereqs:

FREN 301 (<http://bulletin.unl.edu/courses/FREN/301>) and **302** (<http://bulletin.unl.edu/courses/FREN/302>), or equivalent.

Works of Voltaire, Rousseau, Montesquieu, Diderot. Lectures, discussion, and reports.

Credit Hours:	3
Course Delivery:	Classroom

FREN

French Literature Nineteenth Century I

[LINK \(http://bulletin.unl.edu/courses/FREN/453\)](http://bulletin.unl.edu/courses/FREN/453)

453/853

Prereqs:

FREN 301 (<http://bulletin.unl.edu/courses/FREN/301>) and **302** (<http://bulletin.unl.edu/courses/FREN/302>), or permission.

Readings in the major developments in narrative, drama, poetry and the essay from 1800 to 1860. Authors include Balzac, Hugo, Stendhal, Nerval and Gauthier.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

FREN

French Literature Nineteenth Century II

[LINK \(http://bulletin.unl.edu/courses/FREN/454\)](http://bulletin.unl.edu/courses/FREN/454)

454/854

Prereqs:

FREN 301 (<http://bulletin.unl.edu/courses/FREN/301>) and **302** (<http://bulletin.unl.edu/courses/FREN/302>), or permission.

Readings in the major developments in prose and verse from 1850 to 1900. Authors include Baudelaire, Mallarme, Rimbaud and Verlaine.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

FREN

Twentieth-Century French Literature I

[LINK \(http://bulletin.unl.edu/courses/FREN/457\)](http://bulletin.unl.edu/courses/FREN/457)

457/857

Prereqs:

FREN 301 (<http://bulletin.unl.edu/courses/FREN/301>) and **302** (<http://bulletin.unl.edu/courses/FREN/302>), or equivalent.

Main trends in the French novel from 1900 to the present.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

FREN

Twentieth-Century French Literature II

[LINK \(http://bulletin.unl.edu/courses/FREN/458\)](http://bulletin.unl.edu/courses/FREN/458)

458/858

Prereqs:

FREN 301 (<http://bulletin.unl.edu/courses/FREN/301>) and **302** (<http://bulletin.unl.edu/courses/FREN/302>), or equivalent.

Main trends in French poetry and theater from 1900 to the present.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

FREN

Literature of French Canada

[LINK \(http://bulletin.unl.edu/courses/FREN/459\)](http://bulletin.unl.edu/courses/FREN/459)

459/859

Prereqs:

FREN 301 (<http://bulletin.unl.edu/courses/FREN/301>) and **302** (<http://bulletin.unl.edu/courses/FREN/302>), or permission.

Survey of literature of French Canada in its cultural context.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

FREN

Francophone Literature[LINK \(http://bulletin.unl.edu/courses/FREN/460\)](http://bulletin.unl.edu/courses/FREN/460)**460/860****Prereqs:**

FREN 301 (<http://bulletin.unl.edu/courses/FREN/301>) and **302** (<http://bulletin.unl.edu/courses/FREN/302>).

Survey of literature and film from French speaking African and Caribbean cultures.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

FREN

Studies in Francophone Literature and Cultures[LINK \(http://bulletin.unl.edu/courses/FREN/461\)](http://bulletin.unl.edu/courses/FREN/461)**461/861****Prereqs:**

FREN 301 (<http://bulletin.unl.edu/courses/FREN/301>) and **302** (<http://bulletin.unl.edu/courses/FREN/302>).

A topic, genre, author, and geographical area of the African Diaspora.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

FREN

Independent Study in French[LINK \(http://bulletin.unl.edu/courses/FREN/496\)](http://bulletin.unl.edu/courses/FREN/496)**496/896****Prereqs:****Permission.**

Special research project or reading program under the direction of a staff member in the department.

Credit Hours:	1-24
Course Delivery:	Classroom

FREN

Special Topics in French[LINK \(http://bulletin.unl.edu/courses/FREN/498\)](http://bulletin.unl.edu/courses/FREN/498)**498/898****Prereqs:****Permission.**

Specific topic to be covered in any given semester and credit to be awarded to be determined by the instructor at that time.

Language, literature, and civilization.

Credit Hours:	1-24
Course Delivery:	Classroom

FREN

Masters Thesis[LINK \(http://bulletin.unl.edu/courses/FREN/899\)](http://bulletin.unl.edu/courses/FREN/899)**899****Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

FREN

Old French Language[LINK \(http://bulletin.unl.edu/courses/FREN/901\)](http://bulletin.unl.edu/courses/FREN/901)**901****Prereqs:****Permission**

Phonology and morphology of Old French as derived from Vulgar Latin. Attention to a detailed reading of the "Chanson de Roland" and the "Lais" of Marie de France.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

FREN
902

Old French Literature

[LINK \(http://bulletin.unl.edu/courses/FREN/902\)](http://bulletin.unl.edu/courses/FREN/902)

Prereqs:
Permission

Readings from Medieval epics, saints' lives, Arthurian romances, prose chronicles, and drama. Introduction to the modern critical principles of editing Medieval manuscript.

Credit Hours: 3
Campus:
Course Delivery: Classroom

FREN
919

Sixteenth Century I

[LINK \(http://bulletin.unl.edu/courses/FREN/919\)](http://bulletin.unl.edu/courses/FREN/919)

Prereqs:
Permission

Masterpieces of Renaissance literature. Works of Rabelais, the Pleiade, Montaigne, etc.

Credit Hours: 3
Campus:
Course Delivery: Classroom

FREN
920

Sixteenth Century II

[LINK \(http://bulletin.unl.edu/courses/FREN/920\)](http://bulletin.unl.edu/courses/FREN/920)

Prereqs:
Permission

FREN 919 (<http://bulletin.unl.edu/courses/FREN/919>) continued. Seminars in French (3 cr per sem) Under the headings listed below, the works of one author, or groups of works centering in a period, or those illustrating the development of a literary age are studied with respect to content, sources, style, and influence.

Credit Hours: 3
Campus:
Course Delivery: Classroom

FREN
925

Drama

[LINK \(http://bulletin.unl.edu/courses/FREN/925\)](http://bulletin.unl.edu/courses/FREN/925)

Campus:
Course Delivery: Classroom

FREN
927

Novel

[LINK \(http://bulletin.unl.edu/courses/FREN/927\)](http://bulletin.unl.edu/courses/FREN/927)

Campus:
Course Delivery: Classroom

FREN
928

Poetry

[LINK \(http://bulletin.unl.edu/courses/FREN/928\)](http://bulletin.unl.edu/courses/FREN/928)

Campus:
Course Delivery: Classroom

FREN
929

Special Topics

[LINK \(http://bulletin.unl.edu/courses/FREN/929\)](http://bulletin.unl.edu/courses/FREN/929)

Campus:
Course Delivery: Classroom

FREN

996**Research Problems in French**[LINK \(http://bulletin.unl.edu/courses/FREN/996\)](http://bulletin.unl.edu/courses/FREN/996)**Prereqs:**
Permission

Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis.

Credit Hours: 1-8**Campus:****Course Delivery:** Classroom

FREN

997**Directed Readings in French**[LINK \(http://bulletin.unl.edu/courses/FREN/997\)](http://bulletin.unl.edu/courses/FREN/997)**Prereqs:**
Permission

Topic varies.

Credit Hours: 1-24**Campus:****Course Delivery:** Classroom

FREN

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/FREN/999\)](http://bulletin.unl.edu/courses/FREN/999)**Prereqs:**
Admission to doctoral degree program and permission of supervisory committee chair**Credit Hours:** 1-24**Max credits per degree:** 55**Campus:****Course Delivery:** Classroom**Courses for GERM (GERM)**

GERM

403/803**Advanced Syntax and Stylistics in German I**[LINK \(http://bulletin.unl.edu/courses/GERM/403\)](http://bulletin.unl.edu/courses/GERM/403)**Prereqs:**
[GERM 303 \(http://bulletin.unl.edu/courses/GERM/303\)](http://bulletin.unl.edu/courses/GERM/303) and [304 \(http://bulletin.unl.edu/courses/GERM/304\)](http://bulletin.unl.edu/courses/GERM/304), or equivalent.*Recommended for all German majors.*

Advanced syntax and style in their application to composition.

Credit Hours: 3**Course Delivery:** Classroom**ACE Outcomes:** 1[?]

GERM

404/804**Advanced Syntax and Stylistics in German II**[LINK \(http://bulletin.unl.edu/courses/GERM/404\)](http://bulletin.unl.edu/courses/GERM/404)**Prereqs:**
[GERM 303 \(http://bulletin.unl.edu/courses/GERM/303\)](http://bulletin.unl.edu/courses/GERM/303) and [304 \(http://bulletin.unl.edu/courses/GERM/304\)](http://bulletin.unl.edu/courses/GERM/304), or equivalent.*Recommended for all German majors.*

Advanced syntax and style in their application to composition.

Credit Hours: 3**Course Delivery:** Classroom

GERM

405/805**Linguistics in German**[LINK \(http://bulletin.unl.edu/courses/GERM/405\)](http://bulletin.unl.edu/courses/GERM/405)**Prereqs:**
[GERM 303 \(http://bulletin.unl.edu/courses/GERM/303\)](http://bulletin.unl.edu/courses/GERM/303), [304 \(http://bulletin.unl.edu/courses/GERM/304\)](http://bulletin.unl.edu/courses/GERM/304) or equivalent.**Credit Hours:** 3**Course Delivery:** Classroom

Phonetics, phonemics, morphology, and transformational grammar as applied to standard German.

GERM

407/807

History of the German Language

[LINK \(http://bulletin.unl.edu/courses/GERM/407\)](http://bulletin.unl.edu/courses/GERM/407)

Prereqs:

[GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) or permission.

Credit Hours: 3

Course Delivery: Classroom

GERM

442/842

Survey of Medieval German Literature in Translation

Crosslisted as MODL 442/842

[LINK \(http://bulletin.unl.edu/courses/GERM/442\)](http://bulletin.unl.edu/courses/GERM/442)

Prereqs:

Permission or [GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) for German majors.

Credit Hours: 3

Course Delivery: Classroom

German majors expected to read the works in German translation and to write their papers in German. Non-German majors read the works in English translation.

Development of German vernacular literature during the Middle Ages. Include works that represent the philosophical/religious literature, the heroic epic, and the romance.

GERM

443/843

Middle High German Language

[LINK \(http://bulletin.unl.edu/courses/GERM/443\)](http://bulletin.unl.edu/courses/GERM/443)

Prereqs:

[GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) or permission.

Credit Hours: 3

Course Delivery: Classroom

This course is a prerequisite for: [GERM 444 \(http://bulletin.unl.edu/courses/GERM/444\)](http://bulletin.unl.edu/courses/GERM/444)

Grammar to attain reading knowledge of Middle High German/translation of excerpts from a variety of Middle High German texts.

GERM

444/844

Middle High German Literature

[LINK \(http://bulletin.unl.edu/courses/GERM/444\)](http://bulletin.unl.edu/courses/GERM/444)

Prereqs:

[GERM 443 \(http://bulletin.unl.edu/courses/GERM/443\)](http://bulletin.unl.edu/courses/GERM/443) or [843 \(http://bulletin.unl.edu/courses/GERM/843\)](http://bulletin.unl.edu/courses/GERM/843) or reading knowledge of Middle High German.

Credit Hours: 3

Course Delivery: Classroom

Reading of masterworks of Middle High German literature in the original language.

GERM

445/845

Sixteenth- and Seventeenth-Century German Literature

[LINK \(http://bulletin.unl.edu/courses/GERM/445\)](http://bulletin.unl.edu/courses/GERM/445)

Prereqs:

[GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) or equivalent.

Credit Hours: 2-3

Course Delivery: Classroom

Humanism, Reformation, and Baroque.

ACE Outcomes: 10⁷

GERM

447/847

Eighteenth-Century Literature

[LINK \(http://bulletin.unl.edu/courses/GERM/447\)](http://bulletin.unl.edu/courses/GERM/447)

Prereqs:
[GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) or equivalent.

Representative authors of the Enlightenment, Empfindsamkeit, and Storm and Stress.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

GERM Romanticism

448/848

[LINK \(http://bulletin.unl.edu/courses/GERM/448\)](http://bulletin.unl.edu/courses/GERM/448)

Prereqs:
[GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) or equivalent.

Representative authors of the Romantic movement.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

GERM Survey of Nineteenth-Century German Literature I, 1820–1848 [LINK \(http://bulletin.unl.edu/courses/GERM/449\)](http://bulletin.unl.edu/courses/GERM/449)

449/849

Prereqs:
[GERM 301 \(http://bulletin.unl.edu/courses/GERM/301\)](http://bulletin.unl.edu/courses/GERM/301) and [302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) or permission.

A survey of the major literary currents, authors, works, influences in German-speaking countries in the first half of the nineteenth century, excluding Romanticism, which is treated in [GERM 448 \(http://bulletin.unl.edu/courses/GERM/448\)](http://bulletin.unl.edu/courses/GERM/448)/848 (<http://bulletin.unl.edu/courses/GERM/848>). The main concern of the course will be a careful examination of many aspects of "Biedermeier" and "Das Junge Deutschland," the two major movements of the time.

Credit Hours:	3
Course Delivery:	Classroom

GERM Survey of Nineteenth-Century German Literature II, 1848–1900 [LINK \(http://bulletin.unl.edu/courses/GERM/450\)](http://bulletin.unl.edu/courses/GERM/450)

450/850

Prereqs:
[GERM 301 \(http://bulletin.unl.edu/courses/GERM/301\)](http://bulletin.unl.edu/courses/GERM/301) or [302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) and permission.

A survey of the major literary currents, authors, works, influences in German-speaking countries in the second half of the nineteenth century. The main concern of the course will be a careful examination of Poetic Realism and Naturalism, the two major movements in this half of the century.

Credit Hours:	3
Course Delivery:	Classroom

GERM From Naturalism to Expressionism [LINK \(http://bulletin.unl.edu/courses/GERM/451\)](http://bulletin.unl.edu/courses/GERM/451)

451/851

Prereqs:
[GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) or equivalent.

Critical survey of the major literary currents from the turn of the century to the end of World War I.

Credit Hours:	3
Course Delivery:	Classroom

GERM From the Weimar Republic into Exile [LINK \(http://bulletin.unl.edu/courses/GERM/452\)](http://bulletin.unl.edu/courses/GERM/452)

452/852

Prereqs:
[GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) or equivalent.

Critical survey of German literature from 1918 to 1945.

Credit Hours:	3
Course Delivery:	Classroom

GERM

History of German Poetry[LINK \(http://bulletin.unl.edu/courses/GERM/453\)](http://bulletin.unl.edu/courses/GERM/453)**453/853****Prereqs:****GERM 302** (<http://bulletin.unl.edu/courses/GERM/302>) or equivalent.

Critical survey of the development of epic and lyric poetry from the beginning to the present time.

Credit Hours:	2-3
Course Delivery:	Classroom

GERM

German Literature and Philosophy[LINK \(http://bulletin.unl.edu/courses/GERM/454\)](http://bulletin.unl.edu/courses/GERM/454)**454/854****Prereqs:****GERM 302** (<http://bulletin.unl.edu/courses/GERM/302>) or equivalent.

Relationship between literature and contemporary thought from the eighteenth century to the present.

Credit Hours:	2-3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

GERM

Postwar German Literature: The Literature of West Germany, Austria, and Switzerland[LINK \(http://bulletin.unl.edu/courses/GERM/455\)](http://bulletin.unl.edu/courses/GERM/455)**455/855****Prereqs:****GERM 302** (<http://bulletin.unl.edu/courses/GERM/302>) or equivalent.

Critical survey of major literary currents in the West since 1945.

Credit Hours:	3
Course Delivery:	Classroom

GERM

Works of Goethe and Schiller[LINK \(http://bulletin.unl.edu/courses/GERM/459\)](http://bulletin.unl.edu/courses/GERM/459)**459/859****Prereqs:****GERM 302** (<http://bulletin.unl.edu/courses/GERM/302>) or equivalent.

Representative works.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

GERM

Goethe's Faust[LINK \(http://bulletin.unl.edu/courses/GERM/460\)](http://bulletin.unl.edu/courses/GERM/460)**460/860****Prereqs:****GERM 302** (<http://bulletin.unl.edu/courses/GERM/302>) or equivalent.

Critical study. Lectures, assigned readings, and reports.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

GERM

Special Topics in German[LINK \(http://bulletin.unl.edu/courses/GERM/498\)](http://bulletin.unl.edu/courses/GERM/498)**498/898****Prereqs:****Permission.**

Specific topic to be covered in any given semester and credit to be awarded to be determined by the instructor at that time.

Consideration of topics in the area of language, literature, and civilization.

Credit Hours:	1-24
Course Delivery:	Classroom

GERM

809**Morphemics in German**[LINK \(http://bulletin.unl.edu/courses/GERM/809\)](http://bulletin.unl.edu/courses/GERM/809)**Prereqs:**
Permission

Morphemic theory and its application to modern German.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GERM

810**Applied Linguistics in German**[LINK \(http://bulletin.unl.edu/courses/GERM/810\)](http://bulletin.unl.edu/courses/GERM/810)**Prereqs:**
GERM 805 (<http://bulletin.unl.edu/courses/GERM/805>) or permission

Recommended for graduate students in German. Application of linguistic theory to teaching or learning German as a second language.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GERM

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/GERM/899\)](http://bulletin.unl.edu/courses/GERM/899)**Prereqs:**
Admission to masters degree program and permission of major adviser

Braun: Althochdeutsche Grammatik and Lesebuch.

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

GERM

929**Problems in Advanced Linguistics**[LINK \(http://bulletin.unl.edu/courses/GERM/929\)](http://bulletin.unl.edu/courses/GERM/929)**Prereqs:**
GERM 807 (<http://bulletin.unl.edu/courses/GERM/807>) or permission

Training in descriptive, comparative, and historical linguistics.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

GERM

930**Seminar in German Linguistics**[LINK \(http://bulletin.unl.edu/courses/GERM/930\)](http://bulletin.unl.edu/courses/GERM/930)**Prereqs:**
Permission

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GERM

951**Seminar in German Literature I**[LINK \(http://bulletin.unl.edu/courses/GERM/951\)](http://bulletin.unl.edu/courses/GERM/951)**Prereqs:**
Permission

The classical period, Klopstock, Wieland, Lessing, Herder, Schiller, Goethe. Subject to be selected.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

GERM

952**Seminar in German Literature II**[LINK \(http://bulletin.unl.edu/courses/GERM/952\)](http://bulletin.unl.edu/courses/GERM/952)**Prereqs:**
Permission

Credit Hours:	1-24
Campus:	

GERM

996**Research Problems in German**[LINK \(http://bulletin.unl.edu/courses/GERM/996\)](http://bulletin.unl.edu/courses/GERM/996)**Prereqs:**
Permission

Individual research projects on a literary or philological problem in areas not covered by seminars or thesis.

Credit Hours: 1-8

Campus:

Course Delivery: Classroom

GERM

997**Directed Readings in German**[LINK \(http://bulletin.unl.edu/courses/GERM/997\)](http://bulletin.unl.edu/courses/GERM/997)**Prereqs:**
Permission

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

GERM

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/GERM/999\)](http://bulletin.unl.edu/courses/GERM/999)**Prereqs:**
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

Q

Courses for MODL (MODL)

AHIS

988**Introduction to the Interdisciplinary Study of the Middle Ages**[LINK \(http://bulletin.unl.edu/courses/AHIS/988\)](http://bulletin.unl.edu/courses/AHIS/988)Crosslisted as *ENGL 988, HIST 988, MODL 988, MUSC 988*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Middle Ages. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours: 3

Campus:

Course Delivery: Classroom

AHIS

989**Introduction to the Interdisciplinary Study of the Renaissance**[LINK \(http://bulletin.unl.edu/courses/AHIS/989\)](http://bulletin.unl.edu/courses/AHIS/989)Crosslisted as *ENGL 989, HIST 989, MODL 989, MUSC 989*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Renaissance. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours: 3

Campus:

Course Delivery: Classroom

ANTH

478/878**Pro-seminar in Latin American Studies**[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)Crosslisted as *HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878***Prereqs:**
Junior standing and permission.

Credit Hours: 3

Max credits per degree: 6

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

ENGL
918 **Interdisciplinary Seminar in Nineteenth-Century Studies**

Crosslisted as *HIST 918, MODL 918*

[LINK \(http://bulletin.unl.edu/courses/ENGL/918\)](http://bulletin.unl.edu/courses/ENGL/918)

Invention of the nineteenth century, gender, colonialism, class, realism science and technology.

Credit Hours:	3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

ENGL
919 **Interdisciplinary Approaches to the Nineteenth Century**

Crosslisted as *HIST 919, MODL 919*

[LINK \(http://bulletin.unl.edu/courses/ENGL/919\)](http://bulletin.unl.edu/courses/ENGL/919)

Introduction to the nineteenth century in North America (focusing on the US), Great Britain, and Europe (focusing on France, Germany, Russia, and Spain), organized through themes such as constructions of gender and sexuality, democracy in the nation-state, and challenges to religion.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

GERM
442/842 **Survey of Medieval German Literature in Translation**

Crosslisted as *MODL 442/842*

[LINK \(http://bulletin.unl.edu/courses/GERM/442\)](http://bulletin.unl.edu/courses/GERM/442)

Prereqs:
Permission or [GERM 302 \(http://bulletin.unl.edu/courses/GERM/302\)](http://bulletin.unl.edu/courses/GERM/302) for German majors.

German majors expected to read the works in German translation and to write their papers in German. Non-German majors read the works in English translation.

Development of German vernacular literature during the Middle Ages. Include works that represent the philosophical/religious literature, the heroic epic, and the romance.

Credit Hours:	3
Course Delivery:	Classroom

HIST
895 **Internship in Digital Humanities**

Crosslisted as *ENGL 895E, MODL 895*

[LINK \(http://bulletin.unl.edu/courses/HIST/895\)](http://bulletin.unl.edu/courses/HIST/895)

Active participation in an ongoing digital humanities project in the Center for Digital Research in the Humanities, including weekly meetings designed to build technical and project management skills.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MODL
443/843 **Dante and His Times**

[LINK \(http://bulletin.unl.edu/courses/MODL/443\)](http://bulletin.unl.edu/courses/MODL/443)

The Divina Commeddia and some minor works; extensive readings in the social background of the thirteenth and fourteenth centuries.

Credit Hours:	3
Course Delivery:	Classroom

MODL
Russian Intellectual Tradition

Crosslisted as *RUSS 454/854*

[LINK \(http://bulletin.unl.edu/courses/MODL/454\)](http://bulletin.unl.edu/courses/MODL/454)

454/854

Prereqs:
Junior standing.

Major Russian thinkers from 1700 to the present. Focus on the evolution of ideas in the Russian context and the relationship between Russian and European thought.

Credit Hours:	3
Course Delivery:	Classroom

MODL

Special Topics

[LINK \(http://bulletin.unl.edu/courses/MODL/498\)](http://bulletin.unl.edu/courses/MODL/498)

498/898

Prereqs:
Permission.

Special topic to be covered in any given semester and credit to be awarded are determined by the instructor.

Consideration of topics in the area of language, literature, and civilization.

Credit Hours:	1-24
Course Delivery:	Classroom

MODL

Introduction to Literary Criticism

[LINK \(http://bulletin.unl.edu/courses/MODL/870\)](http://bulletin.unl.edu/courses/MODL/870)

870

Lecture and discussion about important figures and movements in the history of literary criticism. Reading of representative texts to develop a critical lexicon. Bibliographic and methodological component, tailored to needs of modern language students, and required of all graduate students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MODL

Seminar in Applied Linguistics and Methodology

[LINK \(http://bulletin.unl.edu/courses/MODL/880\)](http://bulletin.unl.edu/courses/MODL/880)

880

MODL *880, or its equivalent, is required of all graduate students in modern languages. It does not qualify as a course for Nebraska State Teacher Certification. Theoretical and practical aspects of second language teaching and learning with special emphasis on the application of principles of applied linguistics along with related disciplines of education to structured teaching and learning situations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MODL

Interdisciplinary Readings in Digital Humanities

[LINK \(http://bulletin.unl.edu/courses/MODL/946\)](http://bulletin.unl.edu/courses/MODL/946)

946

Methods, theories, and practices of digital humanities scholarship.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Courses for RUSS (RUSS)

MODL

Russian Intellectual Tradition

[LINK \(http://bulletin.unl.edu/courses/MODL/454\)](http://bulletin.unl.edu/courses/MODL/454)

454/854

Crosslisted as *RUSS 454/854*

Prereqs:
Junior standing.

Credit Hours:	3
Course Delivery:	Classroom

Major Russian thinkers from 1700 to the present. Focus on the evolution of ideas in the Russian context and the relationship between Russian and European thought.

RUSS

Russian Grammar and Stylistics

[LINK \(http://bulletin.unl.edu/courses/RUSS/403\)](http://bulletin.unl.edu/courses/RUSS/403)

403/803

Prereqs:

[RUSS 302 \(http://bulletin.unl.edu/courses/RUSS/302\)](http://bulletin.unl.edu/courses/RUSS/302) or equivalent.

Detailed analysis of Russian morphology and syntax to achieve greater sophistication in self-expression.

Credit Hours: 3

Course Delivery: Classroom

RUSS

Advanced Literary Analysis

[LINK \(http://bulletin.unl.edu/courses/RUSS/441\)](http://bulletin.unl.edu/courses/RUSS/441)

441/841

Prereqs:

[RUSS 302 \(http://bulletin.unl.edu/courses/RUSS/302\)](http://bulletin.unl.edu/courses/RUSS/302) or equivalent.

All the readings, discussions, and assignments are in Russian.

In-depth study of a work, period, or genre with emphasis on textual analysis.

Credit Hours: 3

Course Delivery: Classroom

RUSS

Russian Poetry

[LINK \(http://bulletin.unl.edu/courses/RUSS/442\)](http://bulletin.unl.edu/courses/RUSS/442)

442/842

Prereqs:

[RUSS 301 \(http://bulletin.unl.edu/courses/RUSS/301\)](http://bulletin.unl.edu/courses/RUSS/301) and [302 \(http://bulletin.unl.edu/courses/RUSS/302\)](http://bulletin.unl.edu/courses/RUSS/302) or equivalent.

Russian poetry of the nineteenth and twentieth centuries. Teaches poetry appreciation and acquaints them with the culture, history and philosophy of the country through poetry.

Credit Hours: 3

Course Delivery: Classroom

RUSS

Russian Literature in Translation II

[LINK \(http://bulletin.unl.edu/courses/RUSS/483\)](http://bulletin.unl.edu/courses/RUSS/483)

483/883

Prereqs:

Junior standing or permission.

Survey of twentieth-century Russian literature, to include works by Babel, Blok, Bely, Zamyatin, Bulgakov, Zoshchenko, Gorky, Sholokhov, Pasternak, Solzhenitsyn, and Rasputin. Prepares students to appreciate literature and acquaint them with Russian literature, culture and philosophy.

Credit Hours: 3

Course Delivery: Classroom

ACE Outcomes: 5?

RUSS

Special Topics in Russian

[LINK \(http://bulletin.unl.edu/courses/RUSS/498\)](http://bulletin.unl.edu/courses/RUSS/498)

498/898

Prereqs:

[RUSS 301 \(http://bulletin.unl.edu/courses/RUSS/301\)](http://bulletin.unl.edu/courses/RUSS/301) and [302 \(http://bulletin.unl.edu/courses/RUSS/302\)](http://bulletin.unl.edu/courses/RUSS/302) or permission.

Specific topic to be covered in any given semester and credit to be awarded to be determined by the instructor at that time.

Language, literature, and civilization.

Credit Hours: 1-24

Course Delivery: Classroom

Courses for SPAN (SPAN)

SPAN Spanish Stylistics

403/803

[LINK \(http://bulletin.unl.edu/courses/SPAN/403\)](http://bulletin.unl.edu/courses/SPAN/403)

Prereqs:
[SPAN 305 \(http://bulletin.unl.edu/courses/SPAN/305\)](http://bulletin.unl.edu/courses/SPAN/305) and [319 \(http://bulletin.unl.edu/courses/SPAN/319\)](http://bulletin.unl.edu/courses/SPAN/319) or equivalent.

For advanced students, particularly prospective teachers, who wish to improve their ability to write idiomatic Spanish.

Translations and composition in Spanish.

Credit Hours:	3
Course Delivery:	Classroom

SPAN Advanced Grammar

405/805

[LINK \(http://bulletin.unl.edu/courses/SPAN/405\)](http://bulletin.unl.edu/courses/SPAN/405)

Prereqs:
[SPAN 300 \(http://bulletin.unl.edu/courses/SPAN/300\)](http://bulletin.unl.edu/courses/SPAN/300) and [317 \(http://bulletin.unl.edu/courses/SPAN/317\)](http://bulletin.unl.edu/courses/SPAN/317) or [319 \(http://bulletin.unl.edu/courses/SPAN/319\)](http://bulletin.unl.edu/courses/SPAN/319) or equivalent.

Theoretical and practical aspects of Spanish grammar.

Credit Hours:	3
Course Delivery:	Classroom

SPAN History of the Spanish Language

407/807

[LINK \(http://bulletin.unl.edu/courses/SPAN/407\)](http://bulletin.unl.edu/courses/SPAN/407)

Prereqs:
[SPAN 317 \(http://bulletin.unl.edu/courses/SPAN/317\)](http://bulletin.unl.edu/courses/SPAN/317) and [SPAN 319 \(http://bulletin.unl.edu/courses/SPAN/319\)](http://bulletin.unl.edu/courses/SPAN/319), or equivalent.

Changes in the sound system, evolution of morphological paradigms and general patterns of semantic change.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

SPAN Medieval Literature

421/821

[LINK \(http://bulletin.unl.edu/courses/SPAN/421\)](http://bulletin.unl.edu/courses/SPAN/421)

Prereqs:
[SPAN 305 \(http://bulletin.unl.edu/courses/SPAN/305\)](http://bulletin.unl.edu/courses/SPAN/305), and either [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311) and [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), or [SPAN 314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314) and [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315); or graduate standing.

Spanish Medieval literature of the tenth to the fifteenth centuries. Reading and analysis of such authors as Berceo, Alfonso X, Juan Manuel, Juan Ruiz, Fernando Rojas, Jorge Manrique, and Juan de Mena.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

SPAN Spanish Speaking Proficiency

432/832

[LINK \(http://bulletin.unl.edu/courses/SPAN/432\)](http://bulletin.unl.edu/courses/SPAN/432)

Prereqs:
[SPAN 300 \(http://bulletin.unl.edu/courses/SPAN/300\)](http://bulletin.unl.edu/courses/SPAN/300) or permission.

Intensive advanced course in oral communication to gain proficiency in speaking Spanish through practice, creative construction of sentences, vocabulary building, and practical review of grammar and pronunciation.

Credit Hours:	3
Course Delivery:	Classroom

SPAN

Spanish Golden Age Poetry[LINK \(http://bulletin.unl.edu/courses/SPAN/441\)](http://bulletin.unl.edu/courses/SPAN/441)**441/841****Prereqs:**

6 hrs from [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311), [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), [314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314), [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Representative works of the sixteenth and seventeenth centuries: Garcilaso de la Vega, Fray Luis de León, San Juan de la Cruz; Lope de Vega, Góngora, Quevedo.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

SPAN

Spanish Golden Age Prose[LINK \(http://bulletin.unl.edu/courses/SPAN/442\)](http://bulletin.unl.edu/courses/SPAN/442)**442/842****Prereqs:**

6 hrs from [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311), [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), [314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314), [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Representative works of the sixteenth and seventeenth centuries, exclusive of Cervantes: La Celestina, El Lazarillo de Tormes, El Buscón; selections from Santa Teresa de Jesus, La Diana, Quevedo's Sueños, and Gracian's El criticón.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

SPAN

Spanish Golden Age Drama[LINK \(http://bulletin.unl.edu/courses/SPAN/445\)](http://bulletin.unl.edu/courses/SPAN/445)**445/845****Prereqs:**

6 hrs from [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311), [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), [314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314), [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Reading and study of the classics of Lope de Vega, Tirso de Molina, Ruiz de Alarcón, Calderón and others. Lectures, class discussions, and reports.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

SPAN

Nineteenth-Century Spanish Literature[LINK \(http://bulletin.unl.edu/courses/SPAN/453\)](http://bulletin.unl.edu/courses/SPAN/453)**453/853****Prereqs:**

6 hrs from [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311), [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), [314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314), [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Reading and study of nineteenth-century Spanish literature: drama, essay, novel, poetry, and short story. Such authors as Larra, Zorrilla, Duque de Rivas, Espronceda, Tamayo y Baus, Echegaray, Bécquer, Pérez Galdós, Clarín, and Valera.

Credit Hours:	3
Course Delivery:	Classroom

SPAN

Human Rights in Latin American Poetry[LINK \(http://bulletin.unl.edu/courses/SPAN/455\)](http://bulletin.unl.edu/courses/SPAN/455)**455/855****Prereqs:**

[SPAN 304 \(http://bulletin.unl.edu/courses/SPAN/304\)](http://bulletin.unl.edu/courses/SPAN/304); and 6 hrs from [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311), [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), [314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314) or [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Credit Hours:	3
Course Delivery:	Classroom

Reading and analysis of Latin American poetry dealing with human rights issues, concentrating on poems produced from 1900 to the present. Topics selected from the Universal Declaration of Human Rights.

SPAN

456/856

Twentieth and Twenty-first Century Spanish Poetry

[LINK \(http://bulletin.unl.edu/courses/SPAN/456\)](http://bulletin.unl.edu/courses/SPAN/456)

Prereqs:

6 hrs from [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311), [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), [314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314), and/or [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Reading and analysis of Spanish poetry, with emphasis on A. Machado, Unamuno, Salinas, J. Guillén, García Lorca, and M. Hernández.

SPAN

457/857

Twentieth and Twenty-first Century Spanish Narrative

[LINK \(http://bulletin.unl.edu/courses/SPAN/457\)](http://bulletin.unl.edu/courses/SPAN/457)

Prereqs:

6 hrs from [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311), [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), [314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314), and/or [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Reading and analysis of significant Spanish narrative.

SPAN

458/858

Twentieth and Twenty-first Century Spanish Drama

[LINK \(http://bulletin.unl.edu/courses/SPAN/458\)](http://bulletin.unl.edu/courses/SPAN/458)

Prereqs:

6 hrs from [SPAN 311 \(http://bulletin.unl.edu/courses/SPAN/311\)](http://bulletin.unl.edu/courses/SPAN/311), [312 \(http://bulletin.unl.edu/courses/SPAN/312\)](http://bulletin.unl.edu/courses/SPAN/312), [314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314), and/or [315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Reading and analysis of dramas written by such playwrights as Benavente, Valle-Inclán, García, Lorca, Buero Vallejo, Sastre, and Arrabal.

SPAN

459/859

Spanish-American Poetry

Crosslisted as *LAMS 459*

[LINK \(http://bulletin.unl.edu/courses/SPAN/459\)](http://bulletin.unl.edu/courses/SPAN/459)

Prereqs:

6 hrs from: [SPAN/LAMS 311 \(http://bulletin.unl.edu/courses/LAMS/311\)](http://bulletin.unl.edu/courses/LAMS/311), [SPAN/LAMS 312 \(http://bulletin.unl.edu/courses/LAMS/312\)](http://bulletin.unl.edu/courses/LAMS/312), [SPAN 314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314), [SPAN 315 \(http://bulletin.unl.edu/courses/SPAN/315\)](http://bulletin.unl.edu/courses/SPAN/315).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Spanish-American poetry.

SPAN

460/860

Spanish-American Novel

Crosslisted as *LAMS 460*

[LINK \(http://bulletin.unl.edu/courses/SPAN/460\)](http://bulletin.unl.edu/courses/SPAN/460)

Prereqs:

6 hrs from: [SPAN/LAMS 311 \(http://bulletin.unl.edu/courses/LAMS/311\)](http://bulletin.unl.edu/courses/LAMS/311), [SPAN/LAMS 312 \(http://bulletin.unl.edu/courses/LAMS/312\)](http://bulletin.unl.edu/courses/LAMS/312), [SPAN 314 \(http://bulletin.unl.edu/courses/SPAN/314\)](http://bulletin.unl.edu/courses/SPAN/314).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

<http://bulletin.unl.edu/courses/SPAN/314>), [SPAN 315](http://bulletin.unl.edu/courses/SPAN/315)
(<http://bulletin.unl.edu/courses/SPAN/315>).

Spanish–American novels.

SPAN

Spanish–American Short Story

[LINK \(http://bulletin.unl.edu/courses/SPAN/462\)](http://bulletin.unl.edu/courses/SPAN/462)

462/862

Crosslisted as *LAMS 462*

Prereqs:

6 hrs from: [SPAN/LAMS 311](http://bulletin.unl.edu/courses/SPAN/LAMS/311)

(<http://bulletin.unl.edu/courses/LAMS/311>), [SPAN/LAMS 312](http://bulletin.unl.edu/courses/LAMS/312)

(<http://bulletin.unl.edu/courses/LAMS/312>), [SPAN 314](http://bulletin.unl.edu/courses/SPAN/314)

(<http://bulletin.unl.edu/courses/SPAN/314>), [SPAN 315](http://bulletin.unl.edu/courses/SPAN/315)

(<http://bulletin.unl.edu/courses/SPAN/315>).

Masterpieces of the Spanish–American short story from its origins. Works of the twentieth century by authors such as Horacio Quiroga, Jorge Luis Borges, Maria Luisa Bombal, Juan Rulfo, Julio Cortazar, Rosario Castellanos, and Luisa Valenzuela.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

SPAN

Twentieth and Twenty–first Century Spanish and Spanish–American Essay

[LINK \(http://bulletin.unl.edu/courses/SPAN/463\)](http://bulletin.unl.edu/courses/SPAN/463)

463/863

Prereqs:

6 hrs from [SPAN 311](http://bulletin.unl.edu/courses/SPAN/311) (<http://bulletin.unl.edu/courses/SPAN/311>), [312](http://bulletin.unl.edu/courses/SPAN/312)

(<http://bulletin.unl.edu/courses/SPAN/312>), [314](http://bulletin.unl.edu/courses/SPAN/314)

(<http://bulletin.unl.edu/courses/SPAN/314>), and/or [315](http://bulletin.unl.edu/courses/SPAN/315)

(<http://bulletin.unl.edu/courses/SPAN/315>).

Reading and analysis of Spanish and Spanish–American essays, with emphasis on Unamuno, Maeztu, Ortega y Gasset, Marañón, Marías, Picon Salas, Arciniegas, Mañach, Reyes, and Paz.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

SPAN

Women Writers of Spanish America

[LINK \(http://bulletin.unl.edu/courses/SPAN/470\)](http://bulletin.unl.edu/courses/SPAN/470)

470/870

Crosslisted as *LAMS 470*

Prereqs:

6 hrs from: [SPAN/LAMS 311](http://bulletin.unl.edu/courses/SPAN/LAMS/311)

(<http://bulletin.unl.edu/courses/LAMS/311>), [SPAN/LAMS 312](http://bulletin.unl.edu/courses/LAMS/312)

(<http://bulletin.unl.edu/courses/LAMS/312>), [SPAN 314](http://bulletin.unl.edu/courses/SPAN/314)

(<http://bulletin.unl.edu/courses/SPAN/314>), [SPAN 315](http://bulletin.unl.edu/courses/SPAN/315)

(<http://bulletin.unl.edu/courses/SPAN/315>).

Masterpieces by women writers of Spanish America such as Sor Juana Ines de la Cruz, Gertrudis Gomez de Avellaneda, Gabriela Mistral, Maria Luisa Bombal, and Victoria Ocampo.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

SPAN

Cervantes

[LINK \(http://bulletin.unl.edu/courses/SPAN/473\)](http://bulletin.unl.edu/courses/SPAN/473)

473/873

Prereqs:

6 hrs from [SPAN 311](http://bulletin.unl.edu/courses/SPAN/311) (<http://bulletin.unl.edu/courses/SPAN/311>), [312](http://bulletin.unl.edu/courses/SPAN/312)

(<http://bulletin.unl.edu/courses/SPAN/312>), [314](http://bulletin.unl.edu/courses/SPAN/314)

(<http://bulletin.unl.edu/courses/SPAN/314>), [315](http://bulletin.unl.edu/courses/SPAN/315)

(<http://bulletin.unl.edu/courses/SPAN/315>).

Don Quijote, the Entremeses, and selected Novelas ejemplares.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

SPAN

Independent Study in Spanish

[LINK \(http://bulletin.unl.edu/courses/SPAN/496\)](http://bulletin.unl.edu/courses/SPAN/496)

496/896

Prereqs:
Permission.

Credit Hours:	1-24
Course Delivery:	Classroom

SPAN

898

Special Topics in Spanish

[LINK \(http://bulletin.unl.edu/courses/SPAN/898\)](http://bulletin.unl.edu/courses/SPAN/898)

Prereqs:
Permission

Specific topic to be covered in any given semester and credit to be awarded to be determined by the instructor at that time. Topics in the area of language, literature, and civilization.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

SPAN

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/SPAN/899\)](http://bulletin.unl.edu/courses/SPAN/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

SPAN

925

Generation of 1898

[LINK \(http://bulletin.unl.edu/courses/SPAN/925\)](http://bulletin.unl.edu/courses/SPAN/925)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPAN

942

Golden Age

[LINK \(http://bulletin.unl.edu/courses/SPAN/942\)](http://bulletin.unl.edu/courses/SPAN/942)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

SPAN

943

Colonial Spanish America

[LINK \(http://bulletin.unl.edu/courses/SPAN/943\)](http://bulletin.unl.edu/courses/SPAN/943)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPAN

952

Spanish Medieval Literature

[LINK \(http://bulletin.unl.edu/courses/SPAN/952\)](http://bulletin.unl.edu/courses/SPAN/952)

Prereqs:
Permission

Medieval Spanish literature. Seminars in Spanish Under the headings listed below the works of one author, or a group of works centering in a period, or

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

those illustrating the development of a literary age are studied with respect to content, sources, style, and influence.

SPAN

957

Literary Movements

[LINK \(http://bulletin.unl.edu/courses/SPAN/957\)](http://bulletin.unl.edu/courses/SPAN/957)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

SPAN

990

Twentieth and Twenty-first Century Spanish Studies

[LINK \(http://bulletin.unl.edu/courses/SPAN/990\)](http://bulletin.unl.edu/courses/SPAN/990)

Credit Hours:	1-3
Max credits per degree:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPAN

991

Special Topics

[LINK \(http://bulletin.unl.edu/courses/SPAN/991\)](http://bulletin.unl.edu/courses/SPAN/991)

Credit Hours:	1-3
Max credits per degree:	24
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPAN

993

Contemporary Spanish America

[LINK \(http://bulletin.unl.edu/courses/SPAN/993\)](http://bulletin.unl.edu/courses/SPAN/993)

Credit Hours:	1-3
Max credits per degree:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPAN

996

Research Problems in Spanish

[LINK \(http://bulletin.unl.edu/courses/SPAN/996\)](http://bulletin.unl.edu/courses/SPAN/996)

Prereqs:
Permission and successful completion of a graduate seminar Individual research on a literary or linguistic problem involving original investigation in areas not covered by seminars or thesis

Credit Hours:	1-8
Campus:	
Course Delivery:	Classroom

SPAN

997

Directed Readings in Spanish

[LINK \(http://bulletin.unl.edu/courses/SPAN/997\)](http://bulletin.unl.edu/courses/SPAN/997)

Prereqs:
Permission

Credit Hours:	1-24
Campus:	

SPAN

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SPAN/999\)](http://bulletin.unl.edu/courses/SPAN/999)**Prereqs:**

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

[Q](#)

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ModernLanguagesAndLit). (<http://www.unl.edu/gradstudies/prospective/programs/ModernLanguagesAndLit>)

Department Chair: Evelyn Jacobson, Ph.D.

Graduate Committee: Professors Carr (chair), Gonzalez-Allende, Guevara, Shirer

A bachelors degree and

- 24 undergraduate hours in French;
- 24 undergraduate hours in Spanish; and
- 20 undergraduate hours in German; on the junior/senior level, or the equivalent, constitute the prerequisite for registration in graduate courses. An examination may be required of students to determine undergraduate courses needed to remove deficiencies.

Applicants for admission to the M.A. program should present the equivalent of an undergraduate major in their language including courses in literature. They also should show strong language skills and familiarity with the target culture. This often includes study or experience abroad. Ph.D. applicants must have an M.A. or equivalent with strong preparation in the target literature, excellent language skills, and demonstrate potential to complete a doctoral dissertation by submitting a sample paper that shows critical thinking and writing ability.

Master of Arts Degree.

While the general requirements for the masters degree apply (see the Masters Degree Requirements in the Graduate Studies Bulletin, a minor under Option I and II may also be selected from a second language (French, German, or Spanish) upon the approval of the major adviser.

Doctor of Philosophy Degree.

In addition to the general requirements of the Graduate College for the degree of doctor of philosophy, the department requires a reading knowledge of French, German, Italian, Latin, Portuguese, Russian, or Spanish, in addition to the target language and English, and the equivalent of two years of college-level work (101 through 202) of a second of the above languages.

In consultation with the supervisory committee and in accordance with the general provisions of the Graduate College, (see the Doctoral Degree Requirements in the Graduate Studies Bulletin) the candidate may select a minor from a second language (French, German or Spanish).

Specializations available at the masters level:

French, German and Spanish

Specializations available at the doctoral level:

French and Spanish

Please see the [departmental website](http://www.unl.edu/modlang/content/grads/index.shtml) (<http://www.unl.edu/modlang/content/grads/index.shtml>) for specific information regarding our Spanish, French and German programs.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/ModernLanguagesAndLit). (<http://www.unl.edu/gradstudies/prospective/programs/ModernLanguagesAndLit>)

Retrieved from "http://bulletin.unl.edu/graduate/Modern_Languages_and_Literatures" (http://bulletin.unl.edu/graduate/Modern_Languages_and_Literatures)"
[Back to Top \(#maincontent\)](#)

Music

Subject Areas

- [Applied Music \(MUAP\) \(#MUAP\)](#)
- [Composition \(MUCP\) \(#MUCP\)](#)
- [Ensembles \(MUEN\) \(#MUEN\)](#)
- [Ensembles for Degree Credit \(MUDC\) \(#MUDC\)](#)
- [Ensembles for Elective Credit Only \(MUCO\) \(#MUCO\)](#)
- [Music \(MUSC\) \(#MUSC\)](#)
- [Music Education \(MUED\) \(#MUED\)](#)
- [Music-Student Recitals \(MUSR\) \(#MUSR\)](#)
- [Opera \(MUOP\) \(#MUOP\)](#)

0

Courses for MUAP (MUAP)

MUAP

6/126

French and German Diction

[LINK \(http://bulletin.unl.edu/courses/MUAP/6\)](http://bulletin.unl.edu/courses/MUAP/6)

Must be taken during second year of applied voice.

Credit Hours: 0

Course Delivery: Classroom

MUAP

800A

Voice

[LINK \(http://bulletin.unl.edu/courses/MUAP/800A\)](http://bulletin.unl.edu/courses/MUAP/800A)

Credit Hours: 1

Campus:

Course Delivery: Classroom

MUAP

800B

Keyboard

[LINK \(http://bulletin.unl.edu/courses/MUAP/800B\)](http://bulletin.unl.edu/courses/MUAP/800B)

Credit Hours: 1

Campus:

Course Delivery: Classroom

MUAP

800D

String

[LINK \(http://bulletin.unl.edu/courses/MUAP/800D\)](http://bulletin.unl.edu/courses/MUAP/800D)

Credit Hours: 1

Campus:

Course Delivery: Classroom

MUAP

800E

Brass

[LINK \(http://bulletin.unl.edu/courses/MUAP/800E\)](http://bulletin.unl.edu/courses/MUAP/800E)

Credit Hours: 1

Campus:

Course Delivery: Classroom

MUAP

800G

Woodwind

[LINK \(http://bulletin.unl.edu/courses/MUAP/800G\)](http://bulletin.unl.edu/courses/MUAP/800G)

Credit Hours: 1

Campus:
Course Delivery: Classroom

MUAP
800J

Percussion

[LINK \(http://bulletin.unl.edu/courses/MUAP/800J\)](http://bulletin.unl.edu/courses/MUAP/800J)

Credit Hours: 1
Campus:
Course Delivery: Classroom

MUAP
801

Voice

[LINK \(http://bulletin.unl.edu/courses/MUAP/801\)](http://bulletin.unl.edu/courses/MUAP/801)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
802

Piano

[LINK \(http://bulletin.unl.edu/courses/MUAP/802\)](http://bulletin.unl.edu/courses/MUAP/802)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
803

Organ

[LINK \(http://bulletin.unl.edu/courses/MUAP/803\)](http://bulletin.unl.edu/courses/MUAP/803)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
804

Harpsichord

[LINK \(http://bulletin.unl.edu/courses/MUAP/804\)](http://bulletin.unl.edu/courses/MUAP/804)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
805

Violin

[LINK \(http://bulletin.unl.edu/courses/MUAP/805\)](http://bulletin.unl.edu/courses/MUAP/805)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
806

Viola

[LINK \(http://bulletin.unl.edu/courses/MUAP/806\)](http://bulletin.unl.edu/courses/MUAP/806)

Credit Hours: 1-2

Campus:
Course Delivery: Classroom

MUAP
807

Cello

[LINK \(http://bulletin.unl.edu/courses/MUAP/807\)](http://bulletin.unl.edu/courses/MUAP/807)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
808

Double Bass

[LINK \(http://bulletin.unl.edu/courses/MUAP/808\)](http://bulletin.unl.edu/courses/MUAP/808)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
809

Harp

[LINK \(http://bulletin.unl.edu/courses/MUAP/809\)](http://bulletin.unl.edu/courses/MUAP/809)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
810

Trumpet

[LINK \(http://bulletin.unl.edu/courses/MUAP/810\)](http://bulletin.unl.edu/courses/MUAP/810)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
811

French Horn

[LINK \(http://bulletin.unl.edu/courses/MUAP/811\)](http://bulletin.unl.edu/courses/MUAP/811)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
812

Trombone

[LINK \(http://bulletin.unl.edu/courses/MUAP/812\)](http://bulletin.unl.edu/courses/MUAP/812)

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

MUAP
813

Euphonium

[LINK \(http://bulletin.unl.edu/courses/MUAP/813\)](http://bulletin.unl.edu/courses/MUAP/813)

Credit Hours: 1-2

Max credits per degree: 2

Campus:

Course Delivery: Classroom

MUAP
814

Tuba

[LINK \(http://bulletin.unl.edu/courses/MUAP/814\)](http://bulletin.unl.edu/courses/MUAP/814)

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

MUAP
815

Flute

[LINK \(http://bulletin.unl.edu/courses/MUAP/815\)](http://bulletin.unl.edu/courses/MUAP/815)

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

MUAP
816

Oboe

[LINK \(http://bulletin.unl.edu/courses/MUAP/816\)](http://bulletin.unl.edu/courses/MUAP/816)

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

MUAP
817

Clarinet

[LINK \(http://bulletin.unl.edu/courses/MUAP/817\)](http://bulletin.unl.edu/courses/MUAP/817)

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

MUAP
818

Bassoon

[LINK \(http://bulletin.unl.edu/courses/MUAP/818\)](http://bulletin.unl.edu/courses/MUAP/818)

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

MUAP
819

Saxophone

[LINK \(http://bulletin.unl.edu/courses/MUAP/819\)](http://bulletin.unl.edu/courses/MUAP/819)

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

MUAP
820

Percussion

[LINK \(http://bulletin.unl.edu/courses/MUAP/820\)](http://bulletin.unl.edu/courses/MUAP/820)

Credit Hours:	1-2
Campus:	
Course Delivery:	Classroom

MUAP
901 Voice

[LINK \(http://bulletin.unl.edu/courses/MUAP/901\)](http://bulletin.unl.edu/courses/MUAP/901)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
902 Piano

[LINK \(http://bulletin.unl.edu/courses/MUAP/902\)](http://bulletin.unl.edu/courses/MUAP/902)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
903 Organ

[LINK \(http://bulletin.unl.edu/courses/MUAP/903\)](http://bulletin.unl.edu/courses/MUAP/903)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
904 Harpsichord

[LINK \(http://bulletin.unl.edu/courses/MUAP/904\)](http://bulletin.unl.edu/courses/MUAP/904)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
905 Violin

[LINK \(http://bulletin.unl.edu/courses/MUAP/905\)](http://bulletin.unl.edu/courses/MUAP/905)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
906 Viola

[LINK \(http://bulletin.unl.edu/courses/MUAP/906\)](http://bulletin.unl.edu/courses/MUAP/906)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
907 Cello

[LINK \(http://bulletin.unl.edu/courses/MUAP/907\)](http://bulletin.unl.edu/courses/MUAP/907)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
908 Double Bass

[LINK \(http://bulletin.unl.edu/courses/MUAP/908\)](http://bulletin.unl.edu/courses/MUAP/908)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
909 Harp

[LINK \(http://bulletin.unl.edu/courses/MUAP/909\)](http://bulletin.unl.edu/courses/MUAP/909)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
910 Trumpet

[LINK \(http://bulletin.unl.edu/courses/MUAP/910\)](http://bulletin.unl.edu/courses/MUAP/910)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
911 French Horn

[LINK \(http://bulletin.unl.edu/courses/MUAP/911\)](http://bulletin.unl.edu/courses/MUAP/911)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
912 Trombone

[LINK \(http://bulletin.unl.edu/courses/MUAP/912\)](http://bulletin.unl.edu/courses/MUAP/912)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
913 Euphonium

[LINK \(http://bulletin.unl.edu/courses/MUAP/913\)](http://bulletin.unl.edu/courses/MUAP/913)

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

MUAP
914 Tuba

[LINK \(http://bulletin.unl.edu/courses/MUAP/914\)](http://bulletin.unl.edu/courses/MUAP/914)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

MUAP
915 Flute

[LINK \(http://bulletin.unl.edu/courses/MUAP/915\)](http://bulletin.unl.edu/courses/MUAP/915)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

MUAP
916 Oboe

[LINK \(http://bulletin.unl.edu/courses/MUAP/916\)](http://bulletin.unl.edu/courses/MUAP/916)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

MUAP
917 Clarinet

[LINK \(http://bulletin.unl.edu/courses/MUAP/917\)](http://bulletin.unl.edu/courses/MUAP/917)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

MUAP
918 Bassoon

[LINK \(http://bulletin.unl.edu/courses/MUAP/918\)](http://bulletin.unl.edu/courses/MUAP/918)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

MUAP
919 Saxophone

[LINK \(http://bulletin.unl.edu/courses/MUAP/919\)](http://bulletin.unl.edu/courses/MUAP/919)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

MUAP
920 Percussion

[LINK \(http://bulletin.unl.edu/courses/MUAP/920\)](http://bulletin.unl.edu/courses/MUAP/920)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

MUAP
921 Choral Conducting

[LINK \(http://bulletin.unl.edu/courses/MUAP/921\)](http://bulletin.unl.edu/courses/MUAP/921)

Credit Hours:	1-4
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

MUAP
922

Orchestral Conducting

[LINK \(http://bulletin.unl.edu/courses/MUAP/922\)](http://bulletin.unl.edu/courses/MUAP/922)

Credit Hours:	1-4
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

MUAP
923

Wind Band Conducting

[LINK \(http://bulletin.unl.edu/courses/MUAP/923\)](http://bulletin.unl.edu/courses/MUAP/923)

Credit Hours:	1-4
Max credits per degree:	12
Course Format:	Studio
Campus:	
Course Delivery:	Classroom

MUSC
422/822

Keyboard Skills I

Crosslisted as *MUAP 422/822*

[LINK \(http://bulletin.unl.edu/courses/MUSC/422\)](http://bulletin.unl.edu/courses/MUSC/422)

Practicum in sight-reading, improvisation, harmonization, and playing by ear.

Credit Hours:	1
Max credits per degree:	1
Course Format:	Studio
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC
433/833

Keyboard Skills II

Crosslisted as *MUAP 433/833*

[LINK \(http://bulletin.unl.edu/courses/MUSC/433\)](http://bulletin.unl.edu/courses/MUSC/433)

Prereqs:
Permission.

Continuation of MUAP/MUSC 422
<http://bulletin.unl.edu/courses/MUSC/422/822>
<http://bulletin.unl.edu/courses/MUSC/822>.

Credit Hours:	1
Course Format:	Studio
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

Ω Courses for MUCP (MUCP)

MUCP
485/885

Orchestration

[LINK \(http://bulletin.unl.edu/courses/MUCP/485\)](http://bulletin.unl.edu/courses/MUCP/485)

Prereqs:
For MUCP 485: [MUSC 266 \(http://bulletin.unl.edu/courses/MUSC/266\)](http://bulletin.unl.edu/courses/MUSC/266).
For MUCP 885: [MUSC theory 848](http://bulletin.unl.edu/courses/MUSC/848) or proficiency.

This course is a prerequisite for: [MUCP 485 \(http://bulletin.unl.edu/courses/MUCP/485\)](http://bulletin.unl.edu/courses/MUCP/485)

[MUCP 485 \(http://bulletin.unl.edu/courses/MUCP/485\)/885](http://bulletin.unl.edu/courses/MUCP/485/885)
 [\(http://bulletin.unl.edu/courses/MUCP/885\)](http://bulletin.unl.edu/courses/MUCP/885) is "Letter Grade only."

The development of basic technical competency in the following areas of music preparation and scoring: score and part formatting and/or preparation; and orchestration.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

MUCP

983

Seminar in Music Composition

[LINK \(http://bulletin.unl.edu/courses/MUCP/983\)](http://bulletin.unl.edu/courses/MUCP/983)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

Courses for MUEN (MUEN)

MUEN

44/844

Small Ensembles

[LINK \(http://bulletin.unl.edu/courses/MUEN/44\)](http://bulletin.unl.edu/courses/MUEN/44)

Requires off-campus performances as approved.

Small groups of primarily like instruments organized for supervised and scheduled rehearsals of music appropriate for the ensemble.

- A. String Ensemble (1 cr, max 4)
- E. Brass Ensemble (1 cr, max 4)
- I. Clarinet Choir (1 cr, max 4)
- J. Flute Ensemble (1 cr, max 4)
- L. Trombone Ensemble (1 cr, max 4)
- M. Horn Ensemble (1 cr, max 4)
- P. Percussion Ensemble (1 cr, max 4)
- T. Saxophone Ensemble (1 cr, max 4)
- U. New Music Consort (1 cr, max 4)
- V. Small Vocal Ensemble (1 cr, max 4)
- W. Tuba/Euphonium Ensemble (1 cr, max 4)
- Y. Pep Band (1 cr, max 4) Prereq: Must meet and maintain full-time enrollment status at UNL. May require off-campus travel.
- Z. Jazz Small Group (1 cr, max 12)

Credit Hours:	1
Max credits per degree:	4
Course Format:	Studio
Campus:	
Course Delivery:	Classroom

MUEN

45/845

Large Ensembles

[LINK \(http://bulletin.unl.edu/courses/MUEN/45\)](http://bulletin.unl.edu/courses/MUEN/45)

Stu. Large groups organized for supervised and scheduled rehearsals of music appropriate for the group.

- A. Symphony Orchestra (1 cr, max 4)
- B. University Singers (1 cr, max 4)
- E. Wind Ensemble (1 cr, max 4)
- K. Symphonic Band (1 cr, max 4)
- L. UNL Jazz Orchestra (1 cr, max 4)
- M. UNL Big Band (1 cr, max 4)
- N. All-Collegiate Choir (1 cr, max 4)
- P. University Chorale (1 cr, max 4)
- Q. Varsity Chorus (1 cr, max 4)
- R. Chamber Singers (1 cr, max 4)

Credit Hours:	1
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

MUEN

Graduate Chamber Music

[LINK \(http://bulletin.unl.edu/courses/MUEN/52\)](http://bulletin.unl.edu/courses/MUEN/52)

Stu. Off-campus performances as approved. Quartets, trios, duos, and miscellaneous chamber groups organized for supervised and scheduled rehearsals of music appropriate for the ensemble.

Credit Hours:	1
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

Courses for MUDC (MUDC)

MUCO

440A/840A**Accompanying Vocal**Crosslisted as *MUDC 440A/840A*[LINK \(http://bulletin.unl.edu/courses/MUCO/440A\)](http://bulletin.unl.edu/courses/MUCO/440A)

Credit Hours:	1
Max credits per degree:	5
Course Format:	Studio
Course Delivery:	Classroom
Groups:	Music Ensembles for Elective Credit Only (MUCO)

MUCO

440B/840B**Accompanying Instrumental**Crosslisted as *MUDC 440B/840B*[LINK \(http://bulletin.unl.edu/courses/MUCO/440B\)](http://bulletin.unl.edu/courses/MUCO/440B)

Credit Hours:	1
Max credits per degree:	5
Course Format:	Studio
Course Delivery:	Classroom
Groups:	Music Ensembles for Elective Credit Only (MUCO)

MUDC

251/451**Big Red Singers**Crosslisted as *MUCO 51/251/451, MUNM 251/451*[LINK \(http://bulletin.unl.edu/courses/MUDC/251\)](http://bulletin.unl.edu/courses/MUDC/251)

Prereqs:
2.0 GPA.

Audition required. Must meet and maintain full-time enrollment status at UNL.

Performance of Broadway and other contemporary repertoire.

Credit Hours:	1
Max credits per degree:	12
Course Format:	Studio 5
Course Delivery:	Classroom
Groups:	Music Ensembles for Degree Credit (MUDC)

MUDC

Jazz Ensemble[LINK \(http://bulletin.unl.edu/courses/MUDC/253\)](http://bulletin.unl.edu/courses/MUDC/253)

253/453 Crosslisted as *MUCO 53/253/453, MUNM 253/453*

Open by audition or permission of the Director of Jazz Activities. Auditions are held the weekend before each term. Performances are held on- and off-campus as approved by the Director of Jazz Activities and the Director of the School of Music.

Jazz instrumental and/or vocal ensembles of standard instrumentation and/or voicing. A. UNL Jazz Orchestra (1 cr, max 12) B. UNL Big Band (1 cr, max 12) E. UNL Jazz Vocal Ensemble (1 cr, max 12)

Credit Hours:	1
Max credits per degree:	12
Course Format:	Studio 3
Course Delivery:	Classroom
Groups:	Music Ensembles for Degree Credit (MUDC)

MUDC **352** Chamber Music
Crosslisted as *MUCO 52/352, MUNM 352*

[LINK \(http://bulletin.unl.edu/courses/MUDC/352\)](http://bulletin.unl.edu/courses/MUDC/352)

Off-campus performances as approved. Open only to students whose applied related instrument is piano, organ, or guitar.

Quartets, trios, duos, and miscellaneous chamber groups organized for supervised and scheduled rehearsals of music appropriate for the ensemble.

Credit Hours:	1
Max credits per degree:	12
Course Format:	Studio 2
Course Delivery:	Classroom
Groups:	Music Ensembles for Degree Credit (MUDC)

Ω Courses for MUCO (MUCO)

MUCO **440A/840A** Accompanying Vocal
Crosslisted as *MUDC 440A/840A*

[LINK \(http://bulletin.unl.edu/courses/MUCO/440A\)](http://bulletin.unl.edu/courses/MUCO/440A)

Credit Hours:	1
Max credits per degree:	5
Course Format:	Studio
Course Delivery:	Classroom
Groups:	Music Ensembles for Elective Credit Only (MUCO)

MUCO **440B/840B** Accompanying Instrumental
Crosslisted as *MUDC 440B/840B*

[LINK \(http://bulletin.unl.edu/courses/MUCO/440B\)](http://bulletin.unl.edu/courses/MUCO/440B)

Credit Hours:	1
Max credits per degree:	5
Course Format:	Studio
Course Delivery:	Classroom
Groups:	Music Ensembles for Elective Credit Only

MUDC

Big Red Singers[LINK \(http://bulletin.unl.edu/courses/MUDC/251\)](http://bulletin.unl.edu/courses/MUDC/251)**251/451**Crosslisted as *MUCO 51/251/451, MUNM 251/451***Prereqs:**
2.0 GPA.*Audition required. Must meet and maintain full-time enrollment status at UNL.*

Performance of Broadway and other contemporary repertoire.

Credit Hours:	1
Max credits per degree:	12
Course Format:	Studio 5
Course Delivery:	Classroom
Groups:	Music Ensembles for Degree Credit (MUDC)

MUDC

Jazz Ensemble[LINK \(http://bulletin.unl.edu/courses/MUDC/253\)](http://bulletin.unl.edu/courses/MUDC/253)**253/453**Crosslisted as *MUCO 53/253/453, MUNM 253/453**Open by audition or permission of the Director of Jazz Activities. Auditions are held the weekend before each term. Performances are held on- and off-campus as approved by the Director of Jazz Activities and the Director of the School of Music.*

Jazz instrumental and/or vocal ensembles of standard instrumentation and/or voicing. A. UNL Jazz Orchestra (1 cr, max 12) B. UNL Big Band (1 cr, max 12) E. UNL Jazz Vocal Ensemble (1 cr, max 12)

Credit Hours:	1
Max credits per degree:	12
Course Format:	Studio 3
Course Delivery:	Classroom
Groups:	Music Ensembles for Degree Credit (MUDC)

MUDC

Chamber Music[LINK \(http://bulletin.unl.edu/courses/MUDC/352\)](http://bulletin.unl.edu/courses/MUDC/352)**352**Crosslisted as *MUCO 52/352, MUNM 352**Off-campus performances as approved. Open only to students whose applied related instrument is piano, organ, or guitar.*

Quartets, trios, duos, and miscellaneous chamber groups organized for supervised and scheduled rehearsals of music appropriate for the ensemble.

Credit Hours:	1
Max credits per degree:	12
Course Format:	Studio 2
Course Delivery:	Classroom
Groups:	Music Ensembles for Degree Credit (MUDC)

Courses for MUSC (MUSC)

AHIS

988**Introduction to the Interdisciplinary Study of the Middle Ages**[LINK \(http://bulletin.unl.edu/courses/AHIS/988\)](http://bulletin.unl.edu/courses/AHIS/988)Crosslisted as *ENGL 988, HIST 988, MODL 988, MUSC 988*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Middle Ages. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AHIS

Introduction to the Interdisciplinary Study of the Renaissance[LINK \(http://bulletin.unl.edu/courses/AHIS/989\)](http://bulletin.unl.edu/courses/AHIS/989)

989Crosslisted as *ENGL 989, HIST 989, MODL 989, MUSC 989*

Methods and state of research in the disciplines--art, music, literature, language, history, philosophy--dealing with the Renaissance. Assistance in independent reading and research in subjects related to the student's own research interests. Taught jointly by faculty members in art, music, theatre, English, history, classics, modern languages, and philosophy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

**ENGL
830J****Music and Text in the English Renaissance**Crosslisted as *MUSC 830J*[LINK \(http://bulletin.unl.edu/courses/ENGL/830J\)](http://bulletin.unl.edu/courses/ENGL/830J)

Prereqs:
[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366)

Interconnections between musical and literary composition at a time when practitioners in both areas were profoundly influenced by developments in each others' fields.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

**MUSC
422/822****Keyboard Skills I**Crosslisted as *MUAP 422/822*[LINK \(http://bulletin.unl.edu/courses/MUSC/422\)](http://bulletin.unl.edu/courses/MUSC/422)

Practicum in sight-reading, improvisation, harmonization, and playing by ear.

Credit Hours:	1
Max credits per degree:	1
Course Format:	Studio
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

**MUSC
424/824****Piano Pedagogy I: Foundations, Philosophies, and Theories**[LINK \(http://bulletin.unl.edu/courses/MUSC/424\)](http://bulletin.unl.edu/courses/MUSC/424)

Prereqs:
10 hrs applied piano.

This course is a prerequisite for: [MUSC 425 \(http://bulletin.unl.edu/courses/MUSC/425\)](http://bulletin.unl.edu/courses/MUSC/425)

The history, materials, and methodologies of piano pedagogy from a perspective of wellness promotion. Special issues pertaining to teaching beginning, intermediate, and advanced students. Observation experience and a supervised teaching practicum.

Credit Hours:	3
Max credits per semester:	3
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

**MUSC
425/825****Piano Pedagogy II: Approaches to Studio Teaching**[LINK \(http://bulletin.unl.edu/courses/MUSC/425\)](http://bulletin.unl.edu/courses/MUSC/425)

Prereqs:
[MUSC 424 \(http://bulletin.unl.edu/courses/MUSC/424\)](http://bulletin.unl.edu/courses/MUSC/424)/[824 \(http://bulletin.unl.edu/courses/MUSC/824\)](http://bulletin.unl.edu/courses/MUSC/824).

Issues pertinent to studio piano teaching, including business issues, developing effective strategies for teaching selected musical and technical skills. Observation experience and a supervised teaching practicum.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC

433/833

Keyboard Skills II

Crosslisted as MUAP 433/833

[LINK \(http://bulletin.unl.edu/courses/MUSC/433\)](http://bulletin.unl.edu/courses/MUSC/433)**Prereqs:**
Permission.

Continuation of MUAP/MUSC 422
<http://bulletin.unl.edu/courses/MUSC/422/822>
<http://bulletin.unl.edu/courses/MUSC/822>.

Credit Hours:	1
Course Format:	Studio
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC

435/835

Music and Film: History and Analysis[LINK \(http://bulletin.unl.edu/courses/MUSC/435\)](http://bulletin.unl.edu/courses/MUSC/435)

Prereqs:
MUSC 366 (<http://bulletin.unl.edu/courses/MUSC/366>) or **THEA 489**
(<http://bulletin.unl.edu/courses/THEA/489/889>)
(<http://bulletin.unl.edu/courses/THEA/889>).

MUSC 435 (<http://bulletin.unl.edu/courses/MUSC/435/835>)
(<http://bulletin.unl.edu/courses/MUSC/835>) may only be taken once in a
lifetime.

Selected films, composers, scores, and the historical contexts. Historical
trends in film and film scoring as well as how those trends are being
interpreted by contemporary filmmakers.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC

437/837

History of Jazz: Origins to Bop[LINK \(http://bulletin.unl.edu/courses/MUSC/437\)](http://bulletin.unl.edu/courses/MUSC/437)

Prereqs:
MUSC 366 (<http://bulletin.unl.edu/courses/MUSC/366>).

MUSC 437 (<http://bulletin.unl.edu/courses/MUSC/437/837>)
(<http://bulletin.unl.edu/courses/MUSC/837>) may only be taken once in a
lifetime.

The history of jazz from its musical antecedents in the Nineteenth Century
to the birth of modern jazz via Bebop in the 1940s. Important musical artists
and trends within the larger context of American history in the Twentieth
Century.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC

438/838

History of Jazz: Post Bop[LINK \(http://bulletin.unl.edu/courses/MUSC/438\)](http://bulletin.unl.edu/courses/MUSC/438)

Prereqs:
MUSC 366 (<http://bulletin.unl.edu/courses/MUSC/366>).

MUSC 438 (<http://bulletin.unl.edu/courses/MUSC/438/838>)
(<http://bulletin.unl.edu/courses/MUSC/838>) may only be taken once in a
lifetime.

The development of modern jazz from the late 1940s to the present.
Important artists and trends within the larger context of American history in
the Twentieth Century.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC

441/841

Skills for the Church Musician[LINK \(http://bulletin.unl.edu/courses/MUSC/441\)](http://bulletin.unl.edu/courses/MUSC/441)

Prereqs:
MUSC 274 (<http://bulletin.unl.edu/courses/MUSC/274>) and **MUAP 232**
(<http://bulletin.unl.edu/courses/MUAP/232>). Keyboard facility

Credit Hours:	3
Course Format:	Lecture 3

recommended.

Skills and philosophical issues for those providing and organizing music for sacred institutions.

Course Delivery: Classroom

Groups: Music Literature and Pedagogy (MUSC)

MUSC

Great Composers & Performers in Music

[LINK \(http://bulletin.unl.edu/courses/MUSC/442\)](http://bulletin.unl.edu/courses/MUSC/442)

442/842

Prereqs:

[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366) or equivalent.

Historical and stylistic study of the life and music of one or more important composers and/or performers in the European–American or non–Western musical traditions.

Credit Hours: 3

Max credits per degree: 6

Course Delivery: Classroom

Groups: Music History (MUSC)

MUSC

Medieval Music

[LINK \(http://bulletin.unl.edu/courses/MUSC/449\)](http://bulletin.unl.edu/courses/MUSC/449)

449/849

Prereqs:

[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366).

Historical and stylistic study of medieval music and its antecedents.

Credit Hours: 3

Max credits per degree: 3

Course Delivery: Classroom

Groups: Music History (MUSC)

MUSC

Johann Sebastian Bach

[LINK \(http://bulletin.unl.edu/courses/MUSC/450\)](http://bulletin.unl.edu/courses/MUSC/450)

450/850

Prereqs:

[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366) or equivalent.

Life and music of J.S. Bach, with emphasis on the most recent developments in Bach scholarship.

Credit Hours: 2–3

Max credits per degree: 3

Course Delivery: Classroom

Groups: Music History (MUSC)

MUSC

Music and the Church

[LINK \(http://bulletin.unl.edu/courses/MUSC/451\)](http://bulletin.unl.edu/courses/MUSC/451)

451/851

Prereqs:

[MUSC 365 \(http://bulletin.unl.edu/courses/MUSC/365\)](http://bulletin.unl.edu/courses/MUSC/365) or [RELG 150 \(http://bulletin.unl.edu/courses/RELG/150\)](http://bulletin.unl.edu/courses/RELG/150) or [JUDS/RELG 205 \(http://bulletin.unl.edu/courses/JUDS/RELG/205\)](http://bulletin.unl.edu/courses/JUDS/RELG/205) or [CLAS/HIST/RELG 307 \(http://bulletin.unl.edu/courses/CLAS/HIST/RELG/307\)](http://bulletin.unl.edu/courses/CLAS/HIST/RELG/307), or permission.

Historical relationship of music and the church: a survey of the major developments in the history of church music in light of theological presuppositions.

Credit Hours: 3

Course Delivery: Classroom

Groups: Music Literature and Pedagogy (MUSC)

MUSC

Hymnology

[LINK \(http://bulletin.unl.edu/courses/MUSC/452\)](http://bulletin.unl.edu/courses/MUSC/452)

452/852

Prereqs:

Junior standing.

History and literature of hymnology (texts and tunes) and their significance

Credit Hours: 3

Course Delivery: Classroom

Music Literature

MUSC **Techniques of Counterpoint**

455/855

[LINK \(http://bulletin.unl.edu/courses/MUSC/455\)](http://bulletin.unl.edu/courses/MUSC/455)

Prereqs:
[MUSC 266 \(http://bulletin.unl.edu/courses/MUSC/266\)](http://bulletin.unl.edu/courses/MUSC/266).

Counterpoint from the eighteenth through the twentieth century. Analysis of excerpts from the literature and composition of representative musical examples.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Music Theory (MUSC)

MUSC **Post-Tonal Theory**

457/857

[LINK \(http://bulletin.unl.edu/courses/MUSC/457\)](http://bulletin.unl.edu/courses/MUSC/457)

Prereqs:
[MUSC 266 \(http://bulletin.unl.edu/courses/MUSC/266\)](http://bulletin.unl.edu/courses/MUSC/266).

Overview of recent techniques for the analysis of twentieth-century music. Evaluation of the theories of Schönberg, Forte, Babbitt, Perle, Lewin, Morris, and others. Application of musical examples.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Music Theory (MUSC)

MUSC **History of the Opera**

458/858

[LINK \(http://bulletin.unl.edu/courses/MUSC/458\)](http://bulletin.unl.edu/courses/MUSC/458)

Prereqs:
 Senior standing or [MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366).

Literature of the opera from its prehistory and beginnings to the present.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC **Symphonic Literature**

459/859

[LINK \(http://bulletin.unl.edu/courses/MUSC/459\)](http://bulletin.unl.edu/courses/MUSC/459)

Prereqs:
 Senior or graduate standing or [MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366).

Literature of the symphony orchestra from the Baroque era to the present.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC **Musical Form**

460/860

[LINK \(http://bulletin.unl.edu/courses/MUSC/460\)](http://bulletin.unl.edu/courses/MUSC/460)

Prereqs:
[MUSC 266 \(http://bulletin.unl.edu/courses/MUSC/266\)](http://bulletin.unl.edu/courses/MUSC/266).

The formal structure and design in music of the common practice period and the present, smaller structural units, motivic processes, binary and ternary forms, vocal forms, theme and variation, sonata, rondo, concerto, suite, ostinato, and contrapuntal forms.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Music Theory (MUSC)

MUSC **Comprehensive Analysis**

461/861

[LINK \(http://bulletin.unl.edu/courses/MUSC/461\)](http://bulletin.unl.edu/courses/MUSC/461)

Prereqs:
MUSC 266 (<http://bulletin.unl.edu/courses/MUSC/266>).

Analysis of music within historical and stylistic contexts with the goal of informing score study and preparation for performers, conductors, and music educators. Analysis of music from the Renaissance, Baroque, Classical, Romantic, and contemporary eras.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Music Theory (MUSC)

MUSC Instrumental Literature and Pedagogy

462/862

[LINK \(http://bulletin.unl.edu/courses/MUSC/462\)](http://bulletin.unl.edu/courses/MUSC/462)

Max 3 is per each subgroup.

Survey of the pedagogy and the solo, chamber and pedagogical literature of instruments from elementary to advanced levels, for class as well as private instruction. A. Brass/Percussion Instruments (2-3 cr, max 3) D. String Instruments (2-3 cr, max 3) E. Woodwind Instruments (2-3 cr, max 3) I. Violin (2-3 cr, max 3) J. Viola (2-3 cr, max 3) K. Cello (2-3 cr, max 3) L. Double Bass (2-3 cr, max 3) M. Trumpet (2-3 cr, max 3) N. French Horn (2-3 cr, max 3) P. Trombone (2-3 cr, max 3) Q. Euphonium, Tuba (2-3 cr, max 3) R. Flute (2-3 cr, max 3) T. Oboe (2-3 cr, max 3) U. Clarinet (2-3 cr, max 3) V. Bassoon (2-3 cr, max 3) W. Saxophone (2-3 cr, max 3) Y. Percussion (2-3 cr, max 3) Z. Guitar (2-3 cr, max 3)

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC Jazz Theory

465/865

[LINK \(http://bulletin.unl.edu/courses/MUSC/465\)](http://bulletin.unl.edu/courses/MUSC/465)

Prereqs:
MUSC 266 (<http://bulletin.unl.edu/courses/MUSC/266>).

This course is a prerequisite for: [MUSC 467 \(http://bulletin.unl.edu/courses/MUSC/467\)](http://bulletin.unl.edu/courses/MUSC/467)

Theoretical foundation of jazz composition and performance. Ear training and keyboard skills.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Music Theory (MUSC)

MUSC Jazz Styles

466/866

[LINK \(http://bulletin.unl.edu/courses/MUSC/466\)](http://bulletin.unl.edu/courses/MUSC/466)

Prereqs:
MUSC 366 (<http://bulletin.unl.edu/courses/MUSC/366>) and **387** (<http://bulletin.unl.edu/courses/MUSC/387>) or equivalent or permission.

Jazz styles from 1920 to the present, with emphasis on the development of listening skills required to aurally identify improvisors, composer/arrangers and stylistic characteristics within the jazz idiom.

Credit Hours:	2
Max credits per degree:	2
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC Jazz Improvisation

467/867

[LINK \(http://bulletin.unl.edu/courses/MUSC/467\)](http://bulletin.unl.edu/courses/MUSC/467)

Prereqs:
MUSC 465 (<http://bulletin.unl.edu/courses/MUSC/465>)/**865** (<http://bulletin.unl.edu/courses/MUSC/865>).

Exploration of the uses the elements of music (melody, harmony, rhythm, articulation, dynamics, form, etc.) in consonant and dissonant ways to create expressive, emotional and substantive improvisations. Topics include the role of the ear; free playing; intervallic and melodic construction; tone and chord character; and transcription.

Credit Hours:	3
Max credits per semester:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC

Jazz Pedagogy[LINK \(http://bulletin.unl.edu/courses/MUSC/468\)](http://bulletin.unl.edu/courses/MUSC/468)**468/868**

Acquaints student with musical repertoire and rehearsal technique of the school jazz ensemble, the various methods of jazz improvisation instruction, the musical roles of the rhythm section, and the materials (books, audio, and video recordings, etc.) that are available to the jazz teacher.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC

Organ Design and Construction[LINK \(http://bulletin.unl.edu/courses/MUSC/469\)](http://bulletin.unl.edu/courses/MUSC/469)**469/869**

Prereqs:
10 hours of applied organ.

Comparison of the most important methods of designing and constructing organs in Europe and America from 1500 to the present.

Credit Hours:	2-3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC

Introduction to Vocal Pedagogy[LINK \(http://bulletin.unl.edu/courses/MUSC/470\)](http://bulletin.unl.edu/courses/MUSC/470)**470/870**

Prereqs:
Junior standing.

This course is a prerequisite for: [MUSC 971 \(http://bulletin.unl.edu/courses/MUSC/971\)](http://bulletin.unl.edu/courses/MUSC/971)

The processes of teaching singing, basic physiology, and scientific and acoustical terms. Developing processes to teach breathing, phonation, registration, resonance strategies, and sound concept through discussion and evaluation of practice teaching, and on how to manage a private studio.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC

Art Song I[LINK \(http://bulletin.unl.edu/courses/MUSC/471\)](http://bulletin.unl.edu/courses/MUSC/471)**471/871**

Prereqs:
Junior standing or above or permission.

Development of the art song, emphasizing the European and New World traditions from the eighteenth century to the present.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Literature and Pedagogy (MUSC)

MUSC

Art Song II[LINK \(http://bulletin.unl.edu/courses/MUSC/472\)](http://bulletin.unl.edu/courses/MUSC/472)**472/872**

Prereqs:
Junior standing.

Intensive study of the German, French and American art song literature from

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom

the eighteenth century to the present.

Music Literature and Pedagogy (MUSC)

MUSC **Organ Literature and Pedagogy**

[LINK \(http://bulletin.unl.edu/courses/MUSC/474\)](http://bulletin.unl.edu/courses/MUSC/474)

474/874

Prereqs:
10 hrs organ or equivalent.

Survey of the most important trends in organ literature and pedagogy from medieval times to the present day. The interrelationships between the music and organ design.

Credit Hours: 3
Course Delivery: Classroom
Groups: Music Literature and Pedagogy (MUSC)

MUSC **Organ Literature Seminar**

[LINK \(http://bulletin.unl.edu/courses/MUSC/475\)](http://bulletin.unl.edu/courses/MUSC/475)

475/875

Prereqs:
10 hrs organ or equivalent.

Topics will rotate.

Seminar in specific focus areas of organ literature.

- A. German Organ Music to 1800 (3 cr)
- B. Organ Music of France (3 cr)
- E. Organ Music of America (3 cr)
- J. Organ Music Since 1950 (3 cr)
- K. Historic Organ Technique (3 cr)

Credit Hours: 3
Max credits per degree: 15
Course Format: Lecture 3
Course Delivery: Classroom
Groups: Music Literature and Pedagogy (MUSC)

MUSC **Piano Literature**

[LINK \(http://bulletin.unl.edu/courses/MUSC/476\)](http://bulletin.unl.edu/courses/MUSC/476)

476/876

Prereqs:
12 hrs undergraduate piano.

Literature for solo piano from the early Baroque through the Twentieth Century, with emphasis on musical styles.

Credit Hours: 3
Max credits per degree: 3
Course Delivery: Classroom
Groups: Music Literature and Pedagogy (MUSC)

MUSC **Piano Literature Seminar**

[LINK \(http://bulletin.unl.edu/courses/MUSC/477\)](http://bulletin.unl.edu/courses/MUSC/477)

477/877

Prereqs:
12 hrs undergraduate piano.

Literature for solo piano. Specific style periods rotate. A. Baroque/Classical (3 cr, max 3) B. Romantic (3 cr, max 3) D. Twentieth Century Repertoire (3 cr, max 3)

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom
Groups: Music Literature and Pedagogy (MUSC)

MUSC **Music of the Twentieth Century I**

[LINK \(http://bulletin.unl.edu/courses/MUSC/478\)](http://bulletin.unl.edu/courses/MUSC/478)

478/878

Prereqs:
MUSC 366 (<http://bulletin.unl.edu/courses/MUSC/366>) or equivalent.

Historical and stylistic study of the music composed from the last decade of the nineteenth century through World War II.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC **Advanced Tonal Theory**

480/880

[LINK \(http://bulletin.unl.edu/courses/MUSC/480\)](http://bulletin.unl.edu/courses/MUSC/480)

Prereqs:
MUSC 266 (<http://bulletin.unl.edu/courses/MUSC/266>).

Compositional practices of late nineteenth-century European music. Chromatic harmony and devices of tonal and motivic expansion. Analytical concepts of Schenker, Schönberg, and others. Application of music examples.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Music Theory (MUSC)

MUSC **Music of the Twentieth Century II**

482/882

[LINK \(http://bulletin.unl.edu/courses/MUSC/482\)](http://bulletin.unl.edu/courses/MUSC/482)

Prereqs:
MUSC 366 (<http://bulletin.unl.edu/courses/MUSC/366>) or equivalent.

Historical and stylistic study of the music composed since World War II.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC **Music Technology: Advanced Techniques and Applications**

483/883

[LINK \(http://bulletin.unl.edu/courses/MUSC/483\)](http://bulletin.unl.edu/courses/MUSC/483)

Prereqs:
MUSC 383 (<http://bulletin.unl.edu/courses/MUSC/383>).

MUSC 483 (<http://bulletin.unl.edu/courses/MUSC/483/883>) (<http://bulletin.unl.edu/courses/MUSC/883>) is presented in a seminar format.

Advanced music technology focusing on particular areas of interest such as: MIDI/audio music production; advanced music notation; and software development for audio, multi-media, and/or mobile applications.

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Lecture
Course Delivery:	Classroom

MUSC **Music of the Classic Period**

485/885

[LINK \(http://bulletin.unl.edu/courses/MUSC/485\)](http://bulletin.unl.edu/courses/MUSC/485)

Prereqs:
MUSC 366 (<http://bulletin.unl.edu/courses/MUSC/366>) or permission.

Forms, styles, composers, and aesthetics of the classic period.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC **Music of the Baroque Era**

487/887

[LINK \(http://bulletin.unl.edu/courses/MUSC/487\)](http://bulletin.unl.edu/courses/MUSC/487)

Prereqs:

Credit Hours:	3
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[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366).

Forms, styles, composers, and aesthetics of the Baroque Era.

Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC

Music of the Romantic Period

[LINK \(http://bulletin.unl.edu/courses/MUSC/488\)](http://bulletin.unl.edu/courses/MUSC/488)

488/888

Prereqs:

[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366).

Forms, styles, composers, and aesthetics of the Romantic Era.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC

American Music

[LINK \(http://bulletin.unl.edu/courses/MUSC/489\)](http://bulletin.unl.edu/courses/MUSC/489)

489/889

Prereqs:

[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366) or equivalent.

American music and musical life in its cultivated and vernacular traditions including a consideration of its cultural and social background as well as principal stylistic trends and predominant musical attitudes.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music History (MUSC)

MUSC

Special Topics in Music

[LINK \(http://bulletin.unl.edu/courses/MUSC/498\)](http://bulletin.unl.edu/courses/MUSC/498)

498/898

Credit Hours:	1-4
Max credits per degree:	24
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Independent Study, Seminars, or Thesis (MUSC)

MUSC

Senior Assessment in Music

[LINK \(http://bulletin.unl.edu/courses/MUSC/64\)](http://bulletin.unl.edu/courses/MUSC/64)

64

Prereqs:

[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366) or equivalent.

Pass/No Pass only.

Demonstration of knowledge in music theory and history through completion of the Major Field Test in Music.

Credit Hours:	0
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Core Curriculum (MUSC)

MUSC

Piano Pedagogy III: Pedagogical Methods and Literature

[LINK \(http://bulletin.unl.edu/courses/MUSC/826\)](http://bulletin.unl.edu/courses/MUSC/826)

826

Prereqs:

Credit Hours:	3
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[MUSC 825 \(http://bulletin.unl.edu/courses/MUSC/825\)](http://bulletin.unl.edu/courses/MUSC/825)

MUSC 826 (<http://bulletin.unl.edu/courses/MUSC/826>) requires observation experience and a supervised teaching practicum. Teaching methods and literature. Identification of musical/interpretive and technical challenges in literature. Development of strategies for sequencing literature.

Campus:

Course Delivery: Classroom

MUSC
827

Piano Pedagogy IV: Group Teaching and Research and/or Writing [LINK \(http://bulletin.unl.edu/courses/MUSC/827\)](http://bulletin.unl.edu/courses/MUSC/827)

Prereqs:
MUSC *826

MUSC 827 (<http://bulletin.unl.edu/courses/MUSC/827>) requires observation experience and a supervised teaching practicum. Teaching piano in group settings. Relational dynamics and curricular issues. Individual research and writing on selected topic of interest serves as a culminating experience for the piano pedagogy course sequence.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MUSC
836

Introduction to Graduate Studies in Music I [LINK \(http://bulletin.unl.edu/courses/MUSC/836\)](http://bulletin.unl.edu/courses/MUSC/836)

Music as a field of scholarly inquiry, incorporating basic research tools and techniques.

Credit Hours: 2

Campus:

Course Delivery: Classroom

MUSC
839

Music in the Lives of People [LINK \(http://bulletin.unl.edu/courses/MUSC/839\)](http://bulletin.unl.edu/courses/MUSC/839)

Roles and functions of music among various groups of people. Importance of music in the development of children and young people, specialized meanings of music that distinguish musicians from non-musicians, and a survey of musical cultures from around the world.

Credit Hours: 2-3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

MUSC
840

Technology Strategies for Teaching Composition [LINK \(http://bulletin.unl.edu/courses/MUSC/840\)](http://bulletin.unl.edu/courses/MUSC/840)

Process and product of music composition in educational settings. Notation, sequencing, and digital audio software and hardware. Composing and arranging.

Credit Hours: 2-3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

MUSC
847

Graduate Review of Music History [LINK \(http://bulletin.unl.edu/courses/MUSC/847\)](http://bulletin.unl.edu/courses/MUSC/847)

Enrollment will be required as determined by the results of the Graduate Diagnostic Survey in Music History. Review of music history for graduate students including examples from all major style periods: Medieval, Renaissance, Baroque, Classical, Romantic, and Contemporary.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MUSC
848

Review of Music Theory [LINK \(http://bulletin.unl.edu/courses/MUSC/848\)](http://bulletin.unl.edu/courses/MUSC/848)

Enrollment in one or more [MUSC 848](#) (<http://bulletin.unl.edu/courses/MUSC/848>) courses will be required as determined by the results of the Graduate Diagnostic Survey in Music Theory.

Review of music theory. Fundamentals, diatonic and/or chromatic harmony, form, and analysis.

A. Review of Theory Diatonicism (1 cr) Introduction to part writing and voice leading.

B. Review of Theory: Chromaticism (1 cr) Chromatic theory.

E. Review of Theory: Form (1 cr) Sonata and fugue.

Credit Hours: 3

Course Format: Lecture

Campus:

Course Delivery: Classroom

MUSC
856

Schenkerian Analysis

[LINK \(http://bulletin.unl.edu/courses/MUSC/856\)](http://bulletin.unl.edu/courses/MUSC/856)

Application of the theories of Heinrich Schenker to the analysis of tonal (common practice period) music.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MUSC
881

Music Bibliography

[LINK \(http://bulletin.unl.edu/courses/MUSC/881\)](http://bulletin.unl.edu/courses/MUSC/881)

Prereqs:
[MUSC 365 \(http://bulletin.unl.edu/courses/MUSC/365\)](http://bulletin.unl.edu/courses/MUSC/365)

Basic procedures and tools for music scholarship.

Credit Hours: 1

Campus:

Course Delivery: Classroom

MUSC
884

Music in 20th-Century American Society

[LINK \(http://bulletin.unl.edu/courses/MUSC/884\)](http://bulletin.unl.edu/courses/MUSC/884)

Prereqs:
Permission

Twentieth century art and vernacular music in the social and historical contexts of its creation, including issues and repertoires that involve multiculturalism and the relationship between popular and art traditions and genres.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MUSC
886

Music of the Renaissance

[LINK \(http://bulletin.unl.edu/courses/MUSC/886\)](http://bulletin.unl.edu/courses/MUSC/886)

Prereqs:
[MUSC 366 \(http://bulletin.unl.edu/courses/MUSC/366\)](http://bulletin.unl.edu/courses/MUSC/366) or permission

Forms, styles, composers, and aesthetics of music of the Renaissance.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MUSC
899

Masters Thesis or Original Composition

[LINK \(http://bulletin.unl.edu/courses/MUSC/899\)](http://bulletin.unl.edu/courses/MUSC/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

MUSC
94

Music Internship

[LINK \(http://bulletin.unl.edu/courses/MUSC/94\)](http://bulletin.unl.edu/courses/MUSC/94)

94/494/894

Prereqs:
Permission.

Supervised practicum and/or field work in an area related to music under the direction of a university staff/faculty member and a cooperating professional in the particular area(s) of interest.

Credit Hours:	1-3
Max credits per semester:	6
Course Delivery:	Classroom
Groups:	Independent Study, Seminars, or Thesis (MUSC)

MUSC
941

Theory Pedagogy

[LINK \(http://bulletin.unl.edu/courses/MUSC/941\)](http://bulletin.unl.edu/courses/MUSC/941)

Prereqs:
Permission

Current materials and approaches for the teaching of music fundamentals, harmony counterpoint, ear training, sight singing, form and analysis. Activities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MUSC
942

Pedagogy of Music History

[LINK \(http://bulletin.unl.edu/courses/MUSC/942\)](http://bulletin.unl.edu/courses/MUSC/942)

Prereqs:
Permission

MUSC 942 (http://bulletin.unl.edu/courses/MUSC/942) is oriented to students in music including performance, composition, music education, music theory, and music history.

Current materials and approaches for the teaching of music history in the post-secondary academic environment.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

MUSC
952

Twentieth-Century Church Music

[LINK \(http://bulletin.unl.edu/courses/MUSC/952\)](http://bulletin.unl.edu/courses/MUSC/952)

Prereqs:
MUSC 366 (http://bulletin.unl.edu/courses/MUSC/366) or equivalent

Recent developments in church music seen in the light of twentieth-century theological trends. New directions in church music.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MUSC
969

Diction for Graduate Students

[LINK \(http://bulletin.unl.edu/courses/MUSC/969\)](http://bulletin.unl.edu/courses/MUSC/969)

Lyric diction in English, Italian, ecclesiastical Latin, French, and German.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MUSC
971

The Science of Singing

[LINK \(http://bulletin.unl.edu/courses/MUSC/971\)](http://bulletin.unl.edu/courses/MUSC/971)

Prereqs:
MUSC 470 (http://bulletin.unl.edu/courses/MUSC/470)/870 (http://bulletin.unl.edu/courses/MUSC/870)

Credit Hours:	3
Course Format:	Lecture 3

The science of singing. The physiology, functioning, and acoustics of the singing voice. Research in singing and the various applications of scientific concepts. Research in the art of teaching singing.

Campus:
Course Delivery: Classroom

MUSC
972 **Seminar: Choral Literature**

[LINK \(http://bulletin.unl.edu/courses/MUSC/972\)](http://bulletin.unl.edu/courses/MUSC/972)

Prereqs:
Permission

Designed for the serious conductor. Analytical and stylistic study of choral literature from the beginning of the respective genre. Major works of the ensemble's history and important contemporary works.

- A. Choral Literature to 1600 (1-4 cr)
- B. Choral Literature from 1600 to 1750 (1-4 cr)
- D. Choral Literature from 1750 to 1900 (1-4 cr)
- E. Choral Literature from 1900 to the present (1-4 cr)

Credit Hours: 1-4
Max credits per degree: 12
Campus:
Course Delivery: Classroom

MUSC
973 **Seminar: Orchestral Literature**

[LINK \(http://bulletin.unl.edu/courses/MUSC/973\)](http://bulletin.unl.edu/courses/MUSC/973)

Prereqs:
Permission

Designed for the serious conductor. Analytical and stylistic study of orchestral literature from the beginning of the respective genre. Major works of four distinct historical periods.

- A. Orchestral Literature to 1800 (1-4 cr)
- B. Orchestral Literature from 1800 to 1875 (1-4 cr)
- D. Orchestral Literature from 1875 to 1910 (1-4 cr)
- E. Orchestral Literature from 1910 to the present (1-4 cr)

Credit Hours: 1-4
Max credits per degree: 12
Campus:
Course Delivery: Classroom

MUSC
974 **Seminar: Wind Band Literature**

[LINK \(http://bulletin.unl.edu/courses/MUSC/974\)](http://bulletin.unl.edu/courses/MUSC/974)

Prereqs:
Permission

Major works and compositional trends of wind band literature. Insights into historical and cultural influences, composers' biographies, analysis of form and style, and correlation with other media (orchestra, choral, etc.).

- A. 1892-1952 (1-4 cr)
- B. 1952-Present (1-4 cr)
- D. The Symphony (1-4 cr)
- E. Evolution of Wind Ensemble Instrumentation (1-4 cr)

Credit Hours: 1-4
Max credits per degree: 12
Campus:
Course Delivery: Classroom

MUSC
977 **Topics in Performance Practice**

[LINK \(http://bulletin.unl.edu/courses/MUSC/977\)](http://bulletin.unl.edu/courses/MUSC/977)

Problems of interpretation and execution in music literature with emphasis on examination of literary and musical sources bearing on performance.

Credit Hours: 3
Course Format: Lab 1, Lecture 2
Campus:
Course Delivery: Classroom

MUSC
979 **Seminar in Music Theory**

[LINK \(http://bulletin.unl.edu/courses/MUSC/979\)](http://bulletin.unl.edu/courses/MUSC/979)

History of music theory, in the works of major theorists, or in special problems in music theory.

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

MUSC
986

Seminar in the History and Literature of Music

[LINK \(http://bulletin.unl.edu/courses/MUSC/986\)](http://bulletin.unl.edu/courses/MUSC/986)

Interpretative and historical studies in music; intensive study of special topics in the history and literature of music.

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

MUSC
99

Doctoral Colloquium

[LINK \(http://bulletin.unl.edu/courses/MUSC/99\)](http://bulletin.unl.edu/courses/MUSC/99)

Required for doctoral students during each semester of residence, the colloquium is a regularly scheduled meeting of faculty and doctoral students for the purpose of sharing ideas and the results of scholarly research.

Credit Hours: 0

Course Delivery: Classroom

Groups: Music History (MUSC)

MUSC
995

Graduate Conducting Project

[LINK \(http://bulletin.unl.edu/courses/MUSC/995\)](http://bulletin.unl.edu/courses/MUSC/995)

Credit Hours: 3

Campus:

Course Delivery: Classroom

MUSC
996

Special Problems

[LINK \(http://bulletin.unl.edu/courses/MUSC/996\)](http://bulletin.unl.edu/courses/MUSC/996)

Prereqs:
Permission; obtain adviser's permission to repeat for credit

Individual research projects in musicology, music theory, or music education.

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

MUSC
997

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/MUSC/997\)](http://bulletin.unl.edu/courses/MUSC/997)

May be repeated for credit.

Credit Hours: 3

Campus:

Course Delivery: Classroom

MUSC
999

Doctoral Document

[LINK \(http://bulletin.unl.edu/courses/MUSC/999\)](http://bulletin.unl.edu/courses/MUSC/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

Courses for MUED (MUED)

MUED **American Cultural Perspectives through Popular Music and Guitar** [LINK \(http://bulletin.unl.edu/courses/MUED/450\)](http://bulletin.unl.edu/courses/MUED/450)

450/850

Crosslisted as *MUNM 450, TEAC 450/850*

Exploration of the historical, social and cultural context of late 19th and 20th century America through learning to play jazz and popular music on the guitar to provide an authentic, performance-based encounter in music.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
ACE Outcomes:	5 [?] , 7 [?]
Groups:	Music Education (MUED)

MUED **Approaches to Middle School General Music** [LINK \(http://bulletin.unl.edu/courses/MUED/473\)](http://bulletin.unl.edu/courses/MUED/473)

473/873

Crosslisted as *TEAC 873*

Prereqs:
MUED 344 (<http://bulletin.unl.edu/courses/MUED/344>) or permission.

For prospective new and experienced general music/middle school teachers. Characteristics of middle school students, materials, methodology, guitar and recorder techniques, and curriculum development.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Education (MUED)

MUED **Independent Study in Music Education** [LINK \(http://bulletin.unl.edu/courses/MUED/496\)](http://bulletin.unl.edu/courses/MUED/496)

496/896

Prereqs:
Permission.

Individual, scholarly study designed to enable a student to pursue a selected topic in music education with the direction and guidance of a faculty member.

Credit Hours:	1-6
Max credits per degree:	9
Course Delivery:	Classroom
Groups:	Music Education (MUED)

MUED **Student Teaching** [LINK \(http://bulletin.unl.edu/courses/MUED/497\)](http://bulletin.unl.edu/courses/MUED/497)

497/897

MUED 897 (<http://bulletin.unl.edu/courses/MUED/897>) does not apply towards the master of music degree.

Supervised teaching experiences in schools with accompanying seminar which focuses on: teacher certification, teacher and students rights and responsibilities, proper conduct of teachers, selected legal aspects of education, methods of communicating with parents and community members, and current issues which impact education. D. Elementary Music (1-12 cr, max 12) T. Secondary Music (1-12 cr, max 12).

Credit Hours:	1-12
Max credits per degree:	12
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	Music Education (MUED)

MUED **Student Teaching – Elementary Music** [LINK \(http://bulletin.unl.edu/courses/MUED/497D\)](http://bulletin.unl.edu/courses/MUED/497D)

497D/897D

MUED 897 (<http://bulletin.unl.edu/courses/MUED/897>) does not apply towards the master of music degree.

Supervised teaching experiences in schools with accompanying seminar which focuses on: teacher certification, teacher and students rights and

Credit Hours:	1-12
Max credits per degree:	12
Course Format:	Lecture

responsibilities, proper conduct of teachers, selected legal aspects of education, methods of communicating with parents and community members, and current issues which impact education.

Course Delivery: Classroom

Groups: Music Education (MUED)

MUED

Student Teaching – Secondary Music

[LINK \(http://bulletin.unl.edu/courses/MUED/497T\)](http://bulletin.unl.edu/courses/MUED/497T)

497T/897T

MUED 897 (<http://bulletin.unl.edu/courses/MUED/897>) does not apply towards the master of music degree.

Supervised teaching experiences in schools with accompanying seminar which focuses on: teacher certification, teacher and students rights and responsibilities, proper conduct of teachers, selected legal aspects of education, methods of communicating with parents and community members, and current issues which impact education.

Credit Hours: 1–12

Max credits per degree: 12

Course Format: Lecture

Course Delivery: Classroom

Groups: Music Education (MUED)

MUED

Advanced Instrumental Conducting

[LINK \(http://bulletin.unl.edu/courses/MUED/834\)](http://bulletin.unl.edu/courses/MUED/834)

834

Prereqs:

[MUSC 376 \(http://bulletin.unl.edu/courses/MUSC/376\)](http://bulletin.unl.edu/courses/MUSC/376) or permission

Extension of basic conducting skills as related to orchestral and band literature; score analysis, keyboard and pitch imagery skills, advanced baton technique, interpretation and expressive conducting. Addresses the art of conducting from the experienced educator's perspective.

Credit Hours: 2–3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

MUED

Psychology and Sociology of Music

[LINK \(http://bulletin.unl.edu/courses/MUED/836\)](http://bulletin.unl.edu/courses/MUED/836)

836

Psychological and sociological principles involved in music learning and performance. Musical aspects of human development, motivation, expressive performance, creativity, performance anxiety, emotional response to music listening, and social uses of music.

Credit Hours: 2–3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

MUED

Inclusive Music Education

[LINK \(http://bulletin.unl.edu/courses/MUED/838\)](http://bulletin.unl.edu/courses/MUED/838)

838

Function and contribution of music in the education of the handicapped. Methodology and materials to implement an effective music program. Development of musical experiences for exceptional students of all ages. Public Laws 94–142 and 95–561, music Individualized Education Programs, assessments, adaptations of curriculum materials, current methodologies and research.

Credit Hours: 2–3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

MUED

Introduction to Research in Music Education

[LINK \(http://bulletin.unl.edu/courses/MUED/843\)](http://bulletin.unl.edu/courses/MUED/843)

843

Prereqs:

[Undergraduate degree in music education or permission](#)

This course is a prerequisite for: [MUED 898 \(http://bulletin.unl.edu/courses/MUED/898\)](http://bulletin.unl.edu/courses/MUED/898)

Interpretation and application of research results. Enables student to design, implement, and report research in the classroom.

Credit Hours: 2–3

Campus:

Course Delivery: Classroom

MUED
845

Historical and Philosophical Foundations of American Music Education [LINK \(http://bulletin.unl.edu/courses/MUED/845\)](http://bulletin.unl.edu/courses/MUED/845)

Crosslisted as *TEAC 845*

Prereqs:
Undergraduate degree in MUED.

MUED 845 (http://bulletin.unl.edu/courses/MUED/845) is required for a graduate degree in music education.

Historical overview of American music education practices from the Singing School tradition to today. Major philosophical influences in American music education, writings regarding aesthetic education, equity, ethical practice, gender, meaning, and profundity. The writings of Stublely, Reimer, Mark, Gary, Hylton, Richmond and others are considered.

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture
Course Delivery:	Classroom

MUED
862

Choral Literature and Conducting for School Ensembles [LINK \(http://bulletin.unl.edu/courses/MUED/862\)](http://bulletin.unl.edu/courses/MUED/862)

Prereqs:
[MUSC 374 \(http://bulletin.unl.edu/courses/MUSC/374\)](http://bulletin.unl.edu/courses/MUSC/374)

Selection and evaluation of choral music for the school ensemble. Curricular concerns, rehearsal and conducting techniques.

Credit Hours:	2-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

MUED
863

Instrumental Literature and Conducting for School Ensembles [LINK \(http://bulletin.unl.edu/courses/MUED/863\)](http://bulletin.unl.edu/courses/MUED/863)

Prereqs:
[MUSC 374 \(http://bulletin.unl.edu/courses/MUSC/374\)](http://bulletin.unl.edu/courses/MUSC/374)

Selection and evaluation of instrumental music for the school ensemble. Curricular concerns, rehearsal and conducting techniques.

Credit Hours:	2-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

MUED
883

Music Technology: Advanced Techniques and Applications [LINK \(http://bulletin.unl.edu/courses/MUED/883\)](http://bulletin.unl.edu/courses/MUED/883)

Prereqs:
[MUSC 383 \(http://bulletin.unl.edu/courses/MUSC/383\)](http://bulletin.unl.edu/courses/MUSC/383)

MUSC 883 (http://bulletin.unl.edu/courses/MUSC/883) is presented in a seminar format.

Advanced music technology focusing on particular areas of interest such as: MIDI/audio music production, advanced music notation, and software development for audio, multi-media, and/or mobile applications.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

MUED
886

Advanced Choral Conducting [LINK \(http://bulletin.unl.edu/courses/MUED/886\)](http://bulletin.unl.edu/courses/MUED/886)

Prereqs:
Permission

Designed for the practicing choral directors. Conducting techniques for, and score preparation of, Renaissance, Baroque and twentieth-century choral literature.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

MUED
890

Workshop Seminar [LINK \(http://bulletin.unl.edu/courses/MUED/890\)](http://bulletin.unl.edu/courses/MUED/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

MUED

893

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/MUED/893\)](http://bulletin.unl.edu/courses/MUED/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

MUED

898

Masters Research Project

[LINK \(http://bulletin.unl.edu/courses/MUED/898\)](http://bulletin.unl.edu/courses/MUED/898)

Prereqs:
MUED 843 (<http://bulletin.unl.edu/courses/MUED/843>) or permission

Opportunities to design and implement a major research project with the direction and guidance of a faculty member.

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

MUED

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/MUED/899\)](http://bulletin.unl.edu/courses/MUED/899)

Prereqs:
Admission to Master of Music Option I program and permission of major adviser

Credit Hours: 6-10

Max credits per degree: 12

Campus:

Course Delivery: Classroom

MUED

928

Seminar in the Curriculum and Teaching of Music

[LINK \(http://bulletin.unl.edu/courses/MUED/928\)](http://bulletin.unl.edu/courses/MUED/928)

Prereqs:
Undergraduate degree in music education or permission

Critical evaluation of current literature, yearbooks, research, new developments, and experiments in the curriculum and teaching of general music.

Credit Hours: 2-3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

MUED

982

College Teaching in Music

[LINK \(http://bulletin.unl.edu/courses/MUED/982\)](http://bulletin.unl.edu/courses/MUED/982)

MUED 982 (<http://bulletin.unl.edu/courses/MUED/982>) is for graduate students in music who are preparing to teach at the college level. Competencies and understandings in music curriculum design and development, instructional strategies, and assessment techniques that contribute to being an effective college music instructor.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

MUED

987

Seminar in Music Education

[LINK \(http://bulletin.unl.edu/courses/MUED/987\)](http://bulletin.unl.edu/courses/MUED/987)

Intensive study of topics in music education.

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

MUED

990**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/MUED/990\)](http://bulletin.unl.edu/courses/MUED/990)

Refer to s in Education under the “Education” section of this bulletin.

Credit Hours:	1–24
Campus:	
Course Delivery:	Classroom

MUED

993**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/MUED/993\)](http://bulletin.unl.edu/courses/MUED/993)

Refer to s in Education under the “Education” section of this bulletin.

Credit Hours:	1–24
Campus:	
Course Delivery:	Classroom

TEAC

881**Music in Early Childhood Education**Crosslisted as *MUED 881*[LINK \(http://bulletin.unl.edu/courses/TEAC/881\)](http://bulletin.unl.edu/courses/TEAC/881)**Prereqs:**

[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or [370 \(http://bulletin.unl.edu/courses/MUED/370\)](http://bulletin.unl.edu/courses/MUED/370) or permission

Prepares the teacher of the young child (3–8 years) in the musical skills, methodology, and materials needed to carry out a successful program of music in the public and private schools, the nursery schools, and day-care centers.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC

961**Current Approaches to Elementary Music Education**Crosslisted as *MUED 961*[LINK \(http://bulletin.unl.edu/courses/TEAC/961\)](http://bulletin.unl.edu/courses/TEAC/961)**Prereqs:**

Teaching experience

Implementation of current programs, materials, and techniques for the improvement of music instruction in the elementary school.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Q

Courses for MUSR (MUSR)

MUSR

68**Recital Attendance**[LINK \(http://bulletin.unl.edu/courses/MUSR/68\)](http://bulletin.unl.edu/courses/MUSR/68)

Pass/No Pass only.

Opportunity for multiple student performances. Appearances by guest artists. Forum to consider administrative matters in the School of Music.

Credit Hours:	0
Course Delivery:	Classroom
Groups:	Recitals (MUSR)

MUSR

90**Sophomore or Junior Recital in Applied Music**[LINK \(http://bulletin.unl.edu/courses/MUSR/90\)](http://bulletin.unl.edu/courses/MUSR/90)

Credit Hours:	0
Course Delivery:	Classroom
Groups:	Recitals (MUSR)

MUSR

91**Senior Recital in Applied Music**[LINK \(http://bulletin.unl.edu/courses/MUSR/91\)](http://bulletin.unl.edu/courses/MUSR/91)*2 cr of 400-level applied music.*

Credit Hours:	2
Course Delivery:	Classroom
Groups:	Recitals (MUSR)

MUSR

98**Graduate Recital in Applied Music**[LINK \(http://bulletin.unl.edu/courses/MUSR/98\)](http://bulletin.unl.edu/courses/MUSR/98)

Credit Hours:	0
Course Delivery:	Classroom
Groups:	Recitals (MUSR)

MUSR

98A**Graduate Recital in Applied Music I**[LINK \(http://bulletin.unl.edu/courses/MUSR/98A\)](http://bulletin.unl.edu/courses/MUSR/98A)

Campus:	
Course Delivery:	Classroom

MUSR

98B**Graduate Recital in Applied Music II**[LINK \(http://bulletin.unl.edu/courses/MUSR/98B\)](http://bulletin.unl.edu/courses/MUSR/98B)

Campus:	
Course Delivery:	Classroom

MUSR

998**Graduate Recital in Applied Music**[LINK \(http://bulletin.unl.edu/courses/MUSR/998\)](http://bulletin.unl.edu/courses/MUSR/998)

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

Ω

Courses for MUOP (MUOP)

MUOP

57/357**Music Theatre Performance**[LINK \(http://bulletin.unl.edu/courses/MUOP/57\)](http://bulletin.unl.edu/courses/MUOP/57)**Prereqs:**
Audition and permission.

Preparation for and performance of a chorus, minor, or major role in a fully staged UNL Opera Theatre production.

Credit Hours:	1-3
Max credits per degree:	4
Course Delivery:	Classroom
Groups:	Opera/Music Theatre Performance (MUOP)

MUOP

58/858**Philharmonia: Opera and Chamber Orchestra**[LINK \(http://bulletin.unl.edu/courses/MUOP/58\)](http://bulletin.unl.edu/courses/MUOP/58)

Prereqs:
Parallel [MUEN 045A](http://bulletin.unl.edu/courses/MUEN/45A) (<http://bulletin.unl.edu/courses/MUEN/45A>)/*845A; or [MUEN 045E](http://bulletin.unl.edu/courses/MUEN/45E) (<http://bulletin.unl.edu/courses/MUEN/45E>)/*845E; or [MUEN 045K](http://bulletin.unl.edu/courses/MUEN/45K) (<http://bulletin.unl.edu/courses/MUEN/45K>)/*845K

Open by audition or permission of ensemble director. Rehearsal and performance of chamber orchestra and operatic repertoire of the seventeenth through the twenty-first centuries.

Credit Hours:	1
Max credits per degree:	12
Course Format:	Studio
Campus:	
Course Delivery:	Classroom

MUOP
856 **Advanced Opera Performance Techniques**

[LINK \(http://bulletin.unl.edu/courses/MUOP/856\)](http://bulletin.unl.edu/courses/MUOP/856)

Prereqs:
[MUOP 356](http://bulletin.unl.edu/courses/MUOP/356) (<http://bulletin.unl.edu/courses/MUOP/356>) or **audition and permission**

Techniques of role development. Advanced opera performance training through the coordination of singing, movement, emotional expression, and characterization.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

MUOP
857 **Music Theatre Performance**

[LINK \(http://bulletin.unl.edu/courses/MUOP/857\)](http://bulletin.unl.edu/courses/MUOP/857)

Prereqs:
Audition and permission

Preparation for and performance of a chorus, minor, or major role in a fully staged Nebraska (Lincoln) Opera Theatre production.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

THEA
455/855 **Musical Theatre Techniques**

Crosslisted as *MUOP 455/855*

[LINK \(http://bulletin.unl.edu/courses/THEA/455\)](http://bulletin.unl.edu/courses/THEA/455)

Advanced training in the integration of acting, movement, and singing skills for the performance of musical theatre. Training in artistic decision making that generates a character within a musical. Focus on a discipline of preparation and the resulting practice of performance; practical experiences with solos, duets, and ensembles from American Musical Theatre Repertoire.

Credit Hours:	3
Max credits per degree:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Contents

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 - 1.1 [Master of Music Option I. \(#Master of Music Option I.\)](#)
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 - 1.3 [Master of Music Option III. \(#Master of Music Option III.\)](#)
 - 1.4 [Doctor of Musical Arts Degree. \(#Doctor of Musical Arts Degree.\)](#)
 - 1.5 [Doctor of Philosophy Degree. \(#Doctor of Philosophy Degree.\)](#)
- 2 [Faculty \(#Faculty\)](#)

0

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Music). (<http://www.unl.edu/gradstudies/prospective/programs/Music>)

Director of School of Music: John W. Richmond, Ph.D.

Associate Director: Glenn E. Nierman, D.M.E.

Graduate Committee: Professors Nierman (chair), Anderson, Eklund; Associate Professors Buhard, Wristen, Fuelberth, Haar; Assistant Professor of Research/Creative Activity Fischer

The School of Music offers graduate work leading to the master of music, the doctor of musical arts, and the doctor of philosophy degrees. A specialization in music education is available at the master's level. Once admitted, graduate students will select a Chair of their Supervisory Committee, who must be a member of

the Graduate Faculty of the UNL School of Music; and they are required to take a diagnostic survey in music theory/aural skills and history. Applicants should contact the chairperson of the School of Music Graduate Committee for further details.

⓪

Master of Music Option I.

This option requires the submission of a thesis or an original composition. Total credits: 30, of which 8 credits must be earned in courses open exclusively to graduate students, not including thesis or composition.

- Plan A: Music History
- Plan B: Music Theory
- Plan C: Composition
- Plan D: Music Education

Specific degree requirements are available at: <http://music.unl.edu> (<http://music.unl.edu>).

⓪

Master of Music Option II.

This option is a “summers-only” program (meaning all of the courses in the major are offered only in Summer Sessions) designed for the practicing K–12 music educators who wish to continue teaching K–12 or who wish to pursue further study in preparation for teaching at the college level. A total of 36 credits are required for degree completion of which 12 credits must be earned in courses open exclusively to graduate students. Specific requirements include:

- **Major: Music (Music Education), 18 credits**
 - Music Education Core (836, 838, 843, 845, 928), 15 credits
 - Music Education Elective (862, 863, or 893 Orff workshop), 3 credits
- **Minor: Music, 9 credits**
 - MUSC 840
 - MUSC 861
 - Plus 3 credits of applied music or pedagogy or MUSC 839
- **Second Minor or Supporting Courses, 9 credits**

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Master of Music Option III.

This option offers six areas of emphasis to students in music performance. In addition to other entrance requirements, a successful audition must precede entry into this option. Total credits 36, of which 18 credits must be earned in courses open exclusively to graduate students.

Note – the emphasis in piano pedagogy requires 39 credits.

- Choral Conducting:
 - music core courses 23 credits
 - other music courses 4–6 credits (includes ensemble)
 - applied music 4–6 credits
 - conducting project 3 credits
- Jazz Studies:
 - Major Area (Jazz Improvisation, Pedagogy, Theory, History, Ensembles) 19 credits
 - other music courses (includes Applied/Composition & Theory Pedagogy) 17 credits
- Orchestral Conducting:
 - music core courses 17 credits
 - applied music 4 credits (minimum 4 credits piano)
 - other music courses 12 credits (includes ensemble), conducting project 3 credits
- Piano Pedagogy:
 - applied music 9 credits
 - pedagogy 15 credits
 - music core courses 11 credits
 - other music courses 4 credits (includes ensemble) (1 recital)
- Solo performance:
 - applied music 12 credits
 - music core classes 11 credits
 - pedagogy/literature 2–9 credits
 - other music courses 4–11 credits (1 recital)
- Wind Band Conducting:
 - music core courses 17 credits
 - applied music 6 credits
 - other music 10 credits (includes ensemble)
 - conducting project 3 credits
- Woodwind Specialties:
 - applied music 14 credits
 - music core courses 15 credits
 - other music courses 7 credits (3 recitals)

⓪

Doctor of Musical Arts Degree.

Students may select from among four areas of emphasis when pursuing the Doctor of Musical Arts degree: Composition, Conducting, Jazz Studies, or Performance.

A prerequisite to admission is a master's degree in music. The criteria for admission include:

1. MM GPA – 3.25/4.00 scale,
2. Successful audition or accepted portfolio (composition only),
3. Evidence of scholarly writing ability (and for international students, an Internet TOEFL score of 79), and
4. Evidence of fit between the applicant's goals/interests and the School's ability to address those goals/interests

Details regarding materials required for the admissions portfolio are available at: <http://music.unl.edu> (<http://music.unl.edu>).

The student will ordinarily be required to complete from 54–60 hours of course work beyond the master's degree. Of these hours a minimum of 45 credit hours must be completed at UNL after the filing of the Program of Studies.

When a substantial amount of course work has been completed, the student will take comprehensive examinations, the successful completion of which will lead to admission to candidacy. Presentation of the final recital or composition and the doctoral document—including successful oral defense of the latter—will complete requirements. A detailed description of the DMA degree program is available on the School of Music Website at <http://music.unl.edu> (<http://music.unl.edu>).

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Doctor of Philosophy Degree.

The Doctor of Philosophy Degree offered in the School of Music is a Ph.D. degree with a major in Music. Currently, the Ph.D. degree in Music is offered with an area of emphasis in Music Education. Criteria for admission are:

1. Graduate GPA of at least 3.5 on a 4.0 scale,
2. GRE scores (verbal reasoning, quantitative reasoning, critical thinking, and analytical writing, (not more than 5 years old) and for international students an Internet TOEFL score of 100,
3. Professional Experience – evidence of 3 years of full-time K–12 teaching experience is preferred,
4. "Goodness of Fit" between the applicant's goals/interests and the department's ability to address those goals/interests,
5. Evidence of writing ability, and
6. Evidence of teaching skills

Specifically, the curricular framework for this degree includes four major areas:

1. Core music courses common to all Ph.D. in Music degrees,
2. Research tools courses and dissertation,
3. Courses/seminars in the major area, and
4. Minor or related (cognate) courses. Sample courses/credit hours in each area in a 90-hour Ph.D. in Music (area of emphasis: music education) are structured as follows:

- **Area One: Core Music Courses, 12 Credits**
 - College Teaching of Music (3)
 - Music History (3)
 - Music Theory (3)
 - Music Technology/Composition (3)
- **Area Two: Research Tools Courses and Dissertation 27 Credits**
 - Research Design Statistics Courses (9)
 - Dissertation (18)
- **Area Three: Major Area Courses/Seminars, 30–42 Credits**
- **Area Four: Minor or Related (Cognate) Courses, 9–21 Credits**
- **Total, 90 Credits**

The student will ordinarily be required to complete from 54–60 hours of course work beyond the master's degree. Of these hours a minimum of 45 credit hours must be completed at UNL after approval of the Program of Studies. A detailed description of the Ph.D. program with a music education emphasis is available on the School of Music Website at: <http://music.unl.edu> (<http://music.unl.edu>).

When a substantial amount of course work and the language requirement has been completed, the student will take comprehensive examinations, the successful completion of which will lead to admission to candidacy. The degree requirements will be completed after a successful public defense of the dissertation.

NOTES:

1. This bulletin may not reflect some subsequent revisions in the School of Music programs. Students should check with the School of Music Graduate Office for up-to-date changes that have been approved by the Graduate Committee of the School of Music.
2. The 900-level applied music series is intended for performance majors studying in their major applied area. The 800-level series (not alpha) is intended for students other than performance majors studying in their major applied area. The 800 alpha-series is intended for music majors studying in a secondary applied area and non-music majors.
3. To enroll in applied lessons, the student must audition or have permission of the instructor.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Music). (<http://www.unl.edu/gradstudies/prospective/programs/Music>)

Retrieved from "<http://bulletin.unl.edu/graduate/Music> (<http://bulletin.unl.edu/graduate/Music>)"

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Natural Resources

Subject Areas

- [Natural Resource Sciences \(NRES\) \(#NRES\)](#)
- [Natural Resources and Environmental Economics \(NREE\) \(#NREE\)](#)

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Courses for NRES (NRES)

AECN 883	Ecological Economics Crosslisted as <i>NRES 883</i>	LINK (http://bulletin.unl.edu/courses/AECN/883)
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Prereqs:
[AECN 141 \(http://bulletin.unl.edu/courses/AECN/141\)](http://bulletin.unl.edu/courses/AECN/141) or [ECON 212 \(http://bulletin.unl.edu/courses/ECON/212\)](http://bulletin.unl.edu/courses/ECON/212) or equivalent

A synthesis across the notion of “utility” as represented in traditional environmental and natural resource economics, “ecology” in ecological economics, and “community” in behavioral economics. Ideas from thermodynamics with a focus on renewable resources. Development, organization, and enhancement of eco–business, eco–industry, eco–government and eco–communities.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO 426/826	Invasive Plants Crosslisted as <i>HORT 426/826, NRES 426/826</i>	LINK (http://bulletin.unl.edu/courses/AGRO/426)
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Prereqs:
[AGRO/HORT/153 \(http://bulletin.unl.edu/courses/AGRO/HORT/153\)](http://bulletin.unl.edu/courses/AGRO/HORT/153); [BIOS 109 \(http://bulletin.unl.edu/courses/BIOS/109\)](http://bulletin.unl.edu/courses/BIOS/109).

Identification, biology and ecology of weedy and invasive plants. Principles of invasive plant management by preventative, cultural, biological, mechanical and chemical means using an adaptive management framework. Herbicide terminology and classification, plant–herbicide and soil–herbicide interactions, equipment calibration and dosage calculations.

Credit Hours:	3
Course Format:	Lecture 2, Lab 2
Course Delivery:	Classroom

AGRO 435/835	Agroecology Crosslisted as <i>HORT 435/835, NRES 435/835</i>	LINK (http://bulletin.unl.edu/courses/AGRO/435)
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Prereqs:
For AGRO/HORT/NRES 435: Senior standing or permission. For AGRO/NRES 835: 12 hrs biological or agricultural sciences or permission.

Capstone course. Team projects for developing communication skills and leadership skills.

Integration of principles of ecology, plant and animal sciences, crop protection, and rural landscape planning and management for sustainable agriculture. Includes natural and cultivated ecosystems, population and community ecology, nutrient cycling, pest management, hydrologic cycles, cropping and grazing systems, landscape ecology, biodiversity, and socioeconomic evaluation of systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO 440/840	Great Plains Ecosystem Crosslisted as <i>RNGE 440, NRES 440/840</i>	LINK (http://bulletin.unl.edu/courses/AGRO/440)
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Prereqs:
Junior standing. [BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [101L \(http://bulletin.unl.edu/courses/BIOS/101L\)](http://bulletin.unl.edu/courses/BIOS/101L), or equivalent, recommended.

Characteristics of Great Plains ecosystems, interrelationships of ecological factors and processes, and their application in the management of grasslands. Interactions of fire, vegetation, grazing animals and wildlife.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO

Wildland Plants[LINK \(http://bulletin.unl.edu/courses/AGRO/442\)](http://bulletin.unl.edu/courses/AGRO/442)**442/842**Crosslisted as *RNGE 442, NRES 442/842***Prereqs:**

Junior standing. [BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [101L \(http://bulletin.unl.edu/courses/BIOS/101L\)](http://bulletin.unl.edu/courses/BIOS/101L), or equivalent, recommended.

Wildland plants that are important to grassland and shrub land ecosystem management and production. Distribution, utilization, classification, identification (including identification by vegetative parts), uses by Native Americans, and recognition of grasses, forbs, shrubs, exotic and wetland plants.

Credit Hours:	3
Course Format:	Lab 4, Lecture 2
Course Delivery:	Classroom

AGRO

Vegetation Analysis[LINK \(http://bulletin.unl.edu/courses/AGRO/444\)](http://bulletin.unl.edu/courses/AGRO/444)**444/844**Crosslisted as *RNGE 444, NRES 444/844***Prereqs:**

Junior standing. [BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [101L \(http://bulletin.unl.edu/courses/BIOS/101L\)](http://bulletin.unl.edu/courses/BIOS/101L), or equivalent, recommended.

Criteria by which grassland are analyzed. Vegetation sampling techniques, measurement and evaluation of grasslands, and measurement of important environmental factors. Evaluations of habitat improvement practices, wildlife value, recreational value, and watershed value.

Credit Hours:	3
Course Format:	Lab 4, Lecture 2
Course Delivery:	Classroom

AGRO

Soil Chemistry and Mineralogy[LINK \(http://bulletin.unl.edu/courses/AGRO/455\)](http://bulletin.unl.edu/courses/AGRO/455)**455/855**Crosslisted as *SOIL 455, NRES 455/855***Prereqs:**

AGRO/HORT/[SOIL 153 \(http://bulletin.unl.edu/courses/SOIL/153\)](http://bulletin.unl.edu/courses/SOIL/153) or [GEOL 101 \(http://bulletin.unl.edu/courses/GEOL/101\)](http://bulletin.unl.edu/courses/GEOL/101); [CHEM 109 \(http://bulletin.unl.edu/courses/CHEM/109\)](http://bulletin.unl.edu/courses/CHEM/109) and [110 \(http://bulletin.unl.edu/courses/CHEM/110\)](http://bulletin.unl.edu/courses/CHEM/110); [CHEM 221 \(http://bulletin.unl.edu/courses/CHEM/221\)](http://bulletin.unl.edu/courses/CHEM/221) or [251 \(http://bulletin.unl.edu/courses/CHEM/251\)](http://bulletin.unl.edu/courses/CHEM/251) or [BIOC 221 \(http://bulletin.unl.edu/courses/BIOC/221\)](http://bulletin.unl.edu/courses/BIOC/221); or equivalent.

Chemical and mineralogical properties of soil components. Inorganic colloidal fraction. Structures of soil minerals as a means of understanding properties, such as ion exchange and equilibria; release and supply of nutrient and toxic materials; and soil acidity and alkalinity.

Credit Hours:	3
Course Delivery:	Classroom

AGRO

Soil Chemical Measurements[LINK \(http://bulletin.unl.edu/courses/AGRO/457\)](http://bulletin.unl.edu/courses/AGRO/457)**457/857**Crosslisted as *SOIL 457, NRES 457/857***Prereqs:**

AGRO/[SOIL 153 \(http://bulletin.unl.edu/courses/SOIL/153\)](http://bulletin.unl.edu/courses/SOIL/153), [CHEM 116 \(http://bulletin.unl.edu/courses/CHEM/116\)](http://bulletin.unl.edu/courses/CHEM/116) or [221 \(http://bulletin.unl.edu/courses/CHEM/221\)](http://bulletin.unl.edu/courses/CHEM/221) or equivalent or permission.

Permission required to register for 2 cr. Students registered for 3 cr will design, carry out, and report on an independent study project conducted during the term. Offered even-numbered calendar years. Lab 4-6.

Theory and practice of soil chemical analyses commonly encountered in research and industrial settings. Wet analyses of inorganic fraction of soil and operation of instrumentation necessary to quantify results of those analyses.

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture 2, Lab 6
Course Delivery:	Classroom

AGRO

Soil Microbiology

460/860 Crosslisted as BIOS 447/847, SOIL 460, NRES 460/860

[LINK \(http://bulletin.unl.edu/courses/AGRO/460\)](http://bulletin.unl.edu/courses/AGRO/460)

Prereqs:
One semester microbiology; one semester biochemistry or organic chemistry.

Soil from a microbe's perspective—growth, activity and survival strategies; principles governing methods to study microorganisms and biochemical processes in soil; mechanisms controlling organic matter cycling and stabilization with reference to C, N, S, and P; microbial interactions with plants and animals; and agronomic and environmental applications of soil microorganisms.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

AGRO **475/875** **Water Quality Strategy** Crosslisted as POLS 475/875, SOCI 475/875, GEOL 475/875, CIVE 475/875, SOIL 475, NRES 475/875, WATS 475, MSYM 475/875, CRPL 475/875 [LINK \(http://bulletin.unl.edu/courses/AGRO/475\)](http://bulletin.unl.edu/courses/AGRO/475)

Prereqs:
Senior standing or permission.

Capstone course.

Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating present strategies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

AGRO **807** **Plant–Water Relations** Crosslisted as BIOS 817, NRES 807 [LINK \(http://bulletin.unl.edu/courses/AGRO/807\)](http://bulletin.unl.edu/courses/AGRO/807)

Prereqs:
AGRO 325 (<http://bulletin.unl.edu/courses/AGRO/325>) or equivalent; MATH 106 (<http://bulletin.unl.edu/courses/MATH/106>) recommended

Quantitative study of water relations in the soil–plant–atmosphere system. Basic physical processes, which describe the movement of water in the soil and the atmosphere, and the physiological processes, which describe water movement inside of the plant. Stomata physiology and the effects of internal water deficits on photosynthesis, respiration, nitrogen metabolism, cell division and cell enlargement. Results from integrative models used to study the relative importance of environmental versus physiological factors for several plant–environment systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

AGRO **906** **Crop Growth and Yield Modeling** Crosslisted as NRES 906 [LINK \(http://bulletin.unl.edu/courses/AGRO/906\)](http://bulletin.unl.edu/courses/AGRO/906)

Prereqs:
NRES 808 (<http://bulletin.unl.edu/courses/NRES/808>) or equivalent or permission

Experience in programming in a high–level computer language. Offered spring semester of even–numbered calendar years. Descriptive and explanatory crop growth and yield models studied in detail. Descriptive models focus on yield predictions using easily available inputs while the processes that lead to yield will be examined in explanatory models.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

AGRO **907** **Agricultural Climatology** Crosslisted as METR 907, HORT 907, NRES 907 [LINK \(http://bulletin.unl.edu/courses/AGRO/907\)](http://bulletin.unl.edu/courses/AGRO/907)

Prereqs:
NRES 808 (<http://bulletin.unl.edu/courses/NRES/808>); STAT 801 (<http://bulletin.unl.edu/courses/STAT/801>) or equivalent

Credit Hours:	3
Course Format:	Lab 2, Lecture 2

Offered spring semester of odd-numbered calendar years. Analysis and use of climatological data as applied to agricultural activities and the use of climatological information to assist in decision making.

Campus:
Course Delivery: Classroom

AGRO
908

Solar Radiation Interactions at the Earth's Surface

[LINK \(http://bulletin.unl.edu/courses/AGRO/908\)](http://bulletin.unl.edu/courses/AGRO/908)

Crosslisted as *METR 908, HORT 908, NRES 908*

Prereqs:

[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208); [NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808) or equivalent or permission

Offered spring semester of even-numbered calendar years. Quantitative study of radiative transfer to the earth's surface and subsequent interactions of radiation with vegetative components and underlying surfaces. Applications of canopy radiative modeling and remote sensing techniques, particularly in understanding land-surface processes, are discussed.

Credit Hours: 3
Campus:
Course Delivery: Classroom

AGRO
909

Crop Responses to Environment

[LINK \(http://bulletin.unl.edu/courses/AGRO/909\)](http://bulletin.unl.edu/courses/AGRO/909)

Crosslisted as *HORT 909, NRES 909*

Prereqs:

[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208), [NRES 808 \(http://bulletin.unl.edu/courses/NRES/808\)](http://bulletin.unl.edu/courses/NRES/808), or equivalent or permission

Offered odd-numbered calendar years. Physiological and developmental aspects of hardiness and growth of crop plants as affected by light, temperature, wind, and water. Design, function, and limitations of controlled environment facilities in plant research.

Credit Hours: 3
Campus:
Course Delivery: Classroom

AGRO
961

Advanced Soil Physics

[LINK \(http://bulletin.unl.edu/courses/AGRO/961\)](http://bulletin.unl.edu/courses/AGRO/961)

Crosslisted as *NRES 961*

Prereqs:

[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208) and [PHYS 212 \(http://bulletin.unl.edu/courses/PHYS/212\)](http://bulletin.unl.edu/courses/PHYS/212), or equivalent; or permission

Offered odd-numbered calendar years. Physics of soils and porous media, with emphasis on the physics and mathematics of the movement of water, air, and heat through soils.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

AGRO
966

Soil Fertility

[LINK \(http://bulletin.unl.edu/courses/AGRO/966\)](http://bulletin.unl.edu/courses/AGRO/966)

Crosslisted as *NRES 966*

Prereqs:

[MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106); [AGRO 855 \(http://bulletin.unl.edu/courses/AGRO/855\)](http://bulletin.unl.edu/courses/AGRO/855) and [857 \(http://bulletin.unl.edu/courses/AGRO/857\)](http://bulletin.unl.edu/courses/AGRO/857); [STAT 801 \(http://bulletin.unl.edu/courses/STAT/801\)](http://bulletin.unl.edu/courses/STAT/801)

Conditions and transformations involved in the transfer of a mineral nutrient ion from the soil into the plant. Evaluation of nutrient supply to plants.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

AGRO
977

Soil Genesis and Classification

[LINK \(http://bulletin.unl.edu/courses/AGRO/977\)](http://bulletin.unl.edu/courses/AGRO/977)

Crosslisted as *GEOG 967, NRES 977*

Prereqs:

[AGRO 153 \(http://bulletin.unl.edu/courses/AGRO/153\)](http://bulletin.unl.edu/courses/AGRO/153), [AGRO 877 \(http://bulletin.unl.edu/courses/AGRO/877\)](http://bulletin.unl.edu/courses/AGRO/877), [GEOG 867 \(http://bulletin.unl.edu/courses/GEOG/867\)](http://bulletin.unl.edu/courses/GEOG/867)

Credit Hours: 3
Course Format: Lecture 2, Recitation 1

<http://bulletin.unl.edu/courses/GEOG/867>), and permission

Procedures used to classify soils, concepts behind the systems in use, and the genesis of the soils in the major categories of each system.

Campus:	
Course Delivery:	Classroom

AGRO

992

General Seminar

Crosslisted as *HORT 950, NRES 950*

[LINK \(http://bulletin.unl.edu/courses/AGRO/992\)](http://bulletin.unl.edu/courses/AGRO/992)

Prereqs:
Permission

Expected of all horticulture graduate students and all agronomy PhD students; optional for agronomy MS students. Presentation of thesis or non-thesis topics in agronomy, horticulture or related subjects. For course description, see [AGRO 992 \(http://bulletin.unl.edu/courses/AGRO/992\)](http://bulletin.unl.edu/courses/AGRO/992).

Credit Hours:	1
Max credits per degree:	5
Campus:	
Course Delivery:	Classroom

AGRO

996A

Research in Soils

Crosslisted as *NRES 996A*

[LINK \(http://bulletin.unl.edu/courses/AGRO/996A\)](http://bulletin.unl.edu/courses/AGRO/996A)

Prereqs:
12 hrs AGRO or closely related sciences, and permission

Expected of all horticulture graduate students and all agronomy PhD students; optional for agronomy MS students. Presentation of thesis or non-thesis topics in agronomy, horticulture or related subjects. For course description, see [AGRO 992 \(http://bulletin.unl.edu/courses/AGRO/992\)](http://bulletin.unl.edu/courses/AGRO/992).

Credit Hours:	2-5
Max credits per degree:	5
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

ALEC

410/810

Environmental Leadership

Crosslisted as *NRES 413/813*

[LINK \(http://bulletin.unl.edu/courses/ALEC/410\)](http://bulletin.unl.edu/courses/ALEC/410)

Prereqs:
Junior standing.

Offered on the World Wide Web (WWW) fall semester of odd-numbered years and in the classroom fall semester of even-numbered years.

Major leaders in conservation and ecology that emphasizes agricultural and cultural issues and relationships with the environment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

ANTH

429A/829A

Food Security: A Global Perspective

Crosslisted as *HORT 429A/829A, AGRO 429A/829A, NRES 429A/829A*

[LINK \(http://bulletin.unl.edu/courses/ANTH/429A\)](http://bulletin.unl.edu/courses/ANTH/429A)

Prereqs:
Junior standing

Overview of the technical and sociocultural dimensions of global food insecurity.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Additional Anthropology Courses

ANTH

473/873

Ecological Anthropology

Crosslisted as *NRES 873*

[LINK \(http://bulletin.unl.edu/courses/ANTH/473\)](http://bulletin.unl.edu/courses/ANTH/473)

Human adaptive systems and their ecological contexts. The dynamic inter-relationships between subsistence, technology, social behavior, human demography, and ecological variability.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS **Ecological Interactions**
454/854 Crosslisted as *NRES 454/854*

[LINK \(http://bulletin.unl.edu/courses/BIOS/454\)](http://bulletin.unl.edu/courses/BIOS/454)

Prereqs:
BIOS 102 (<http://bulletin.unl.edu/courses/BIOS/102>), **103** (<http://bulletin.unl.edu/courses/BIOS/103>), and either **BIOS 207** (<http://bulletin.unl.edu/courses/BIOS/207>) or **BIOS 220** (<http://bulletin.unl.edu/courses/BIOS/220>), or equivalent courses.

Nature and characteristics of populations and communities. Interactions within and between populations in community structure and dynamics. Direct and indirect interactions and ecological processes, competition, predation, parasitism, herbivory, and pollination. Structure, functioning and persistence of natural communities, foodweb dynamics, succession, and biodiversity.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

BIOS **Mathematical Models in Biology**
456/856 Crosslisted as *NRES 456/856*

[LINK \(http://bulletin.unl.edu/courses/BIOS/456\)](http://bulletin.unl.edu/courses/BIOS/456)

Prereqs:
Junior standing; major in the biological sciences; MATH 106 (<http://bulletin.unl.edu/courses/MATH/106>) or **107** (<http://bulletin.unl.edu/courses/MATH/107>).

Biological systems, from molecules to ecosystems, are analyzed using mathematical techniques. Strengths and weaknesses of mathematical approaches to biological questions. Brief review of college level math; introduction to modeling; oscillating systems in biology; randomness in biology; review of historically important and currently popular models in biology.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

BIOS **Ichthyology**
489/889 Crosslisted as *NRES 489/889*

[LINK \(http://bulletin.unl.edu/courses/BIOS/489\)](http://bulletin.unl.edu/courses/BIOS/489)

Prereqs:
12 hrs biological sciences.

May also be offered at Cedar Point Biological Station.

Fishes, their taxonomy, physiology, behavior, and ecology. Dynamics of fish stocks and factors regulating their production.

Credit Hours:	4
Course Format:	Lecture 3, Lab 4
Course Delivery:	Classroom

BIOS **Plant Tissue Culture**
811 Crosslisted as *HORT 811, NRES 811*

[LINK \(http://bulletin.unl.edu/courses/BIOS/811\)](http://bulletin.unl.edu/courses/BIOS/811)

Prereqs:
BIOS 109 (<http://bulletin.unl.edu/courses/BIOS/109>); **AGRO 325** (<http://bulletin.unl.edu/courses/AGRO/325>) which includes **CHEM 109** (<http://bulletin.unl.edu/courses/CHEM/109>), **110** (<http://bulletin.unl.edu/courses/CHEM/110>); or equivalent

Survey of techniques used in plant cell, tissue and organ culture, including current research. Laboratory emphasizes practical manipulation of plant cells, tissues, and organs, including examples from woody and herbaceous plant species.

Credit Hours:	4
Course Format:	Lab 4, Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS **Woody Plant Growth and Development**
 Crosslisted as *HORT 849, NRES 849*

[LINK \(http://bulletin.unl.edu/courses/BIOS/849\)](http://bulletin.unl.edu/courses/BIOS/849)

849**Prereqs:**

[CHEM 251](http://bulletin.unl.edu/courses/CHEM/251) (<http://bulletin.unl.edu/courses/CHEM/251>) and [AGRO 325](http://bulletin.unl.edu/courses/AGRO/325) (<http://bulletin.unl.edu/courses/AGRO/325>)

Offered fall semester of odd-numbered calendar years. Plant growth and development specifically of woody plants as viewed from an applied whole-plant physiological level. Plant growth regulators, structure and secondary growth characteristics of woody plants, juvenility, senescence, abscission and dormancy.

Credit Hours:	3
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

BIOS

860**Advanced Limnology**Crosslisted as *NRES 866*[LINK \(http://bulletin.unl.edu/courses/BIOS/860\)](http://bulletin.unl.edu/courses/BIOS/860)**Prereqs:**

[NRES 859](http://bulletin.unl.edu/courses/NRES/859) (<http://bulletin.unl.edu/courses/NRES/859>) or equivalent

In-depth consideration of selected areas of limnology including stream limnology, primary production, secondary production, nutrient cycling, and eutrophication.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BSEN

954**Turbulent Transfer in the Atmospheric Surface Layer**Crosslisted as *NRES 954*[LINK \(http://bulletin.unl.edu/courses/BSEN/954\)](http://bulletin.unl.edu/courses/BSEN/954)**Prereqs:**

[MATH 821](http://bulletin.unl.edu/courses/MATH/821) (<http://bulletin.unl.edu/courses/MATH/821>); [MECH 310](http://bulletin.unl.edu/courses/MECH/310) (<http://bulletin.unl.edu/courses/MECH/310>) or [NRES 808](http://bulletin.unl.edu/courses/NRES/808) (<http://bulletin.unl.edu/courses/NRES/808>) or [BIOS 857](http://bulletin.unl.edu/courses/BIOS/857) (<http://bulletin.unl.edu/courses/BIOS/857>); or equivalent or permission

Offered spring semester of odd-numbered calendar years.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CIVE

353/853**Hydrology**Crosslisted as *NRES 853*[LINK \(http://bulletin.unl.edu/courses/CIVE/353\)](http://bulletin.unl.edu/courses/CIVE/353)**Prereqs:**

[MATH 106](http://bulletin.unl.edu/courses/MATH/106) (<http://bulletin.unl.edu/courses/MATH/106>), not available for credit for engineering students.

Introduction to the principles of hydrology, with emphasis on the components of the hydrologic cycle: precipitation, evaporation, groundwater flow, surface runoff, infiltration, precipitation runoff relationships.

Credit Hours:	3
Course Delivery:	Classroom

CIVE

916**Environmental Law and Water Resource Management Seminar**Crosslisted as *NRES 916, LAW 774G*[LINK \(http://bulletin.unl.edu/courses/CIVE/916\)](http://bulletin.unl.edu/courses/CIVE/916)**Prereqs:**

Permission

An interdisciplinary seminar with the Department of Civil Engineering. Contemporary environmental issues and water resource management.

Credit Hours:	1-4
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

ENTO

402/802**Aquatic Insects**Crosslisted as *BIOS 485/885, NRES 402/802*[LINK \(http://bulletin.unl.edu/courses/ENTO/402\)](http://bulletin.unl.edu/courses/ENTO/402)**Prereqs:**

Credit Hours:	2
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12 hrs biological sciences.

Offered fall semester of odd-numbered calendar years. Offered summer semester of even-numbered calendar years on the Internet via the World Wide Web (WWW).

Biology and ecology of aquatic insects.

Course Format: Lecture 2

Course Delivery: Classroom, Web

ENTO

Identification of Aquatic Insects

[LINK \(http://bulletin.unl.edu/courses/ENTO/402L\)](http://bulletin.unl.edu/courses/ENTO/402L)

402L/802L

Crosslisted as BIOS 485L/885L, NRES 402L/802L

Prereqs:

Parallel ENTO 802 (<http://bulletin.unl.edu/courses/ENTO/802>), NRES 402 (<http://bulletin.unl.edu/courses/NRES/402>), 802 (<http://bulletin.unl.edu/courses/NRES/802>), BIOS 485 (<http://bulletin.unl.edu/courses/BIOS/485>), 885 (<http://bulletin.unl.edu/courses/BIOS/885>).

ENTO 402L (<http://bulletin.unl.edu/courses/ENTO/402L>)/802L (<http://bulletin.unl.edu/courses/ENTO/802L>) is offered fall semester of odd-numbered calendar years. BIOS 485L (<http://bulletin.unl.edu/courses/BIOS/485L>)/885L (<http://bulletin.unl.edu/courses/BIOS/885L>) and NRES 402L (<http://bulletin.unl.edu/courses/NRES/402L>)/802L (<http://bulletin.unl.edu/courses/NRES/802L>) may be offered in the spring semester.

Identification of aquatic insects to the family level.

Credit Hours: 1

Course Format: Lab

Course Delivery: Classroom

GEOG

Introduction to Geographic Information Systems

[LINK \(http://bulletin.unl.edu/courses/GEOG/412\)](http://bulletin.unl.edu/courses/GEOG/412)

412/812

Crosslisted as NRES 412/812

This course is a prerequisite for: [GEOG 422 \(http://bulletin.unl.edu/courses/GEOG/422\)](http://bulletin.unl.edu/courses/GEOG/422)

Lab exercises provide experience with GIS

Introduction to conceptual foundations and applications of computer-based geographic information systems (GIS). GIS database development, spatial data analysis, spatial modeling, GIS implementation and administration.

Credit Hours: 4

Course Format: Lecture 3, Lab 2

Course Delivery: Classroom

Groups: Techniques

GEOG

Introduction to Remote Sensing

[LINK \(http://bulletin.unl.edu/courses/GEOG/418\)](http://bulletin.unl.edu/courses/GEOG/418)

418/818

Crosslisted as NRES 418/818

Prereqs:

9 hrs earth science or natural resource sciences including GEOG 150 (<http://bulletin.unl.edu/courses/GEOG/150>) and 152 (<http://bulletin.unl.edu/courses/GEOG/152>), or 155 (<http://bulletin.unl.edu/courses/GEOG/155>).

This course is a prerequisite for: [GEOG 420 \(http://bulletin.unl.edu/courses/GEOG/420\)](http://bulletin.unl.edu/courses/GEOG/420)

Introduction to remote sensing of the earth from aerial and satellite platforms. Aerial photography, multispectral scanning, thermal imaging and microwave remote sensing techniques. Physical foundations of remote sensing using electromagnetic energy, energy-matter interactions, techniques employed in data acquisition and methods of image analysis. Weekly laboratory provides practical experience in visual and digital interpretation of aerial photography, satellite imagery, thermal and radar imagery. Applications in geographic, agricultural, environmental and natural resources analyses.

Credit Hours: 4

Course Format: Lecture 3, Lab 2

Course Delivery: Classroom

Groups: Techniques

GEOG

Applications of Remote Sensing in Agriculture and Natural Resources

[LINK \(http://bulletin.unl.edu/courses/GEOG/419\)](http://bulletin.unl.edu/courses/GEOG/419)

419/819

Crosslisted as GEOL 419/819, AGRO 419/819, NRES 420/820

Prereqs:
GEOG/NRES 418 (<http://bulletin.unl.edu/courses/NRES/418>).

Introduction to the practical uses of remote electromagnetic sensing in dealing with agricultural and water-resources issues.

Credit Hours: 4

Course Format: Lecture 3, Lab 2

Course Delivery: Classroom

Groups: Techniques

GEOG
427/827 **Introduction to the Global Positioning System (GPS)**

Crosslisted as *NRES 427/827*

LINK (<http://bulletin.unl.edu/courses/GEOG/427>)

Prereqs:
Junior standing and a basic familiarity with mapping and GIS, or permission.

Integrated lectures, lab exercises and field experience provide an understanding of GPS technology and applications. Students will learn to collect, correct and use GPS data in a geographic information system (GIS) environment.

Credit Hours: 2

Course Format: Lab 1, Lecture 1.5

Course Delivery: Classroom

GEOG
491/891 **Geography Field Tour**

Crosslisted as *NRES 491*

LINK (<http://bulletin.unl.edu/courses/GEOG/491>)

Off-campus travel required.

Group educational tours to specific sites that illustrate aspects of physical and cultural geography.

Credit Hours: 2-3

Max credits per semester: 3

Max credits per degree: 6

Course Format: Field 40

Course Delivery: Classroom

Groups: Physical Geography

GEOL
418/818 **Chemistry of Natural Waters**

Crosslisted as *NRES 419/819, WATS 418*

LINK (<http://bulletin.unl.edu/courses/GEOL/418>)

Prereqs:
2 semesters of college chemistry, or CHEM 109 (<http://bulletin.unl.edu/courses/CHEM/109>) and 110 (<http://bulletin.unl.edu/courses/CHEM/110>), 113 (<http://bulletin.unl.edu/courses/CHEM/113>) and 114 (<http://bulletin.unl.edu/courses/CHEM/114>), or CHEM 111 (<http://bulletin.unl.edu/courses/CHEM/111>); or permission.

Principles of water chemistry and their use in precipitation, surface water, and groundwater studies. Groundwater applications used to determine the time and source of groundwater recharge, estimate groundwater residence time, identify aquifer mineralogy, examine the degree of mixing between waters of various sources and evaluate what types of biological and chemical processes have occurred during the water's journey through the aquifer system.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

GEOL
418L/818L **Chemistry of Natural Waters Laboratory**

Crosslisted as *NRES 419L/819L, WATS 418L*

LINK (<http://bulletin.unl.edu/courses/GEOL/418L>)

Prereqs:
Two semesters college chemistry or permission.

Parallel: GEOL 418 (<http://bulletin.unl.edu/courses/GEOL/418>)/818 (<http://bulletin.unl.edu/courses/GEOL/818>), NRES 419 (<http://bulletin.unl.edu/courses/NRES/419>)/819 (<http://bulletin.unl.edu/courses/NRES/819>), WATS 418 (<http://bulletin.unl.edu/courses/WATS/418>). Offered even numbered

Credit Hours: 1

Course Format: Lab 1

Course Delivery: Classroom

calendar years or as needed.

Basic laboratory techniques used to perform water analysis including various wet chemical techniques, instrument use (AA, IC, UV-Visible) and computer modeling. Techniques for sample collection and preservation, parameter estimation and chemical analysis.

GEOL

436/836

Evolution of Cenozoic Mammals

Crosslisted as NRES 436/836

[LINK \(http://bulletin.unl.edu/courses/GEOL/436\)](http://bulletin.unl.edu/courses/GEOL/436)

Prereqs:

[GEOL 103 \(http://bulletin.unl.edu/courses/GEOL/103\)](http://bulletin.unl.edu/courses/GEOL/103).

Survey of mammalian evolution with emphasis on the origin, radiation, and phylogenetic relationships of Cenozoic fossil mammals. Overview of climatic and ecological changes affecting mammalian adaptations and hands on experience with specimens.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

GEOL

465/865

Soil Geomorphology and Paleopedology

Crosslisted as NRES 465/865

[LINK \(http://bulletin.unl.edu/courses/GEOL/465\)](http://bulletin.unl.edu/courses/GEOL/465)

Prereqs:

[GEOL 450 \(http://bulletin.unl.edu/courses/GEOL/450\)](http://bulletin.unl.edu/courses/GEOL/450)/[850 \(http://bulletin.unl.edu/courses/GEOL/850\)](http://bulletin.unl.edu/courses/GEOL/850) and [NRES 477 \(http://bulletin.unl.edu/courses/NRES/477\)](http://bulletin.unl.edu/courses/NRES/477)/[877 \(http://bulletin.unl.edu/courses/NRES/877\)](http://bulletin.unl.edu/courses/NRES/877); or permission.

Two field trips required.

Soils and paleosols as evidence in reconstruction landscape evolution and paleoenvironments. Role of paleosols in stratigraphy.

Credit Hours: 3

Course Format: Lecture 2, Lab 3

Course Delivery: Classroom

GEOL

825

Geostatistics

Crosslisted as NRES 825

[LINK \(http://bulletin.unl.edu/courses/GEOL/825\)](http://bulletin.unl.edu/courses/GEOL/825)

Prereqs:

[MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106) and [STAT 218 \(http://bulletin.unl.edu/courses/STAT/218\)](http://bulletin.unl.edu/courses/STAT/218)

Offered fall semester of odd-numbered calendar years. Practical methods for solving spatial interpolation and related estimation problems with emphasis on geostatistical methods. Introduction to applied statistical simulation and prediction in geology, hydrogeology and environmental studies.

Credit Hours: 3

Campus:

Course Delivery: Classroom

GEOL

889

Hydrogeology

Crosslisted as NRES 887

[LINK \(http://bulletin.unl.edu/courses/GEOL/889\)](http://bulletin.unl.edu/courses/GEOL/889)

Prereqs:

[GEOL 888 \(http://bulletin.unl.edu/courses/GEOL/888\)](http://bulletin.unl.edu/courses/GEOL/888)/[NRES 488 \(http://bulletin.unl.edu/courses/NRES/488\)](http://bulletin.unl.edu/courses/NRES/488) and [MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208)

Principles of flow through porous media with emphasis on basic classical solutions, flow-net analysis, and elementary modern numerical solutions that aid in the analysis and development of groundwater supplies.

Credit Hours: 3

Campus:

Course Delivery: Classroom

GEOL

917

Environmental Isotope Hydrology

Crosslisted as NRES 917

[LINK \(http://bulletin.unl.edu/courses/GEOL/917\)](http://bulletin.unl.edu/courses/GEOL/917)

Prereqs:

Credit Hours: 3

NRES 819 (<http://bulletin.unl.edu/courses/NRES/819>) or equivalent or permission

Theory and use of stable, radiogenic and radioactive isotopes in hydrologic studies. Abundance and variation of the stable isotopes of oxygen, hydrogen, carbon, sulphur, chlorine, nitrogen, and strontium. Application of the isotopes to determine water origin, movement, geochemical history, recharge age and residence time, and to delineate contaminant sources and solute migration.

Campus:

Course Delivery: Classroom

HORT

812

Landscape Ecology

Crosslisted as *NRES 810*

[LINK \(http://bulletin.unl.edu/courses/HORT/812\)](http://bulletin.unl.edu/courses/HORT/812)

Prereqs:

12 hrs biological sciences or related fields including BIOS 320 (<http://bulletin.unl.edu/courses/BIOS/320>) or permission

Spatial arrangements of ecosystems, the interaction among component ecosystems through the flow of energy, materials and organisms, and alteration of this structure through natural or anthropogenic forces.

Credit Hours: 3

Campus:

Course Delivery: Classroom

HORT

897

Master of Applied Science Project

Crosslisted as *AGRI 897, AGRO 897, NRES 897*

[LINK \(http://bulletin.unl.edu/courses/HORT/897\)](http://bulletin.unl.edu/courses/HORT/897)

Prereqs:

Admission to Master of Applied Science degree program

Project activity for the Master of Applied Science degree.

Design, develop and complete a project that requires synthesis of the course topics covered in the primary area of emphasis.

Credit Hours: 1-6

Max credits per degree: 6

Campus:

Course Delivery: Classroom

METR

483/883

Global Climate Change

Crosslisted as *NRES 467/867*

[LINK \(http://bulletin.unl.edu/courses/METR/483\)](http://bulletin.unl.edu/courses/METR/483)

Prereqs:

Junior standing; MATH 106

(<http://bulletin.unl.edu/courses/MATH/106>)/106B

(<http://bulletin.unl.edu/courses/MATH/106B>)/106H

(<http://bulletin.unl.edu/courses/MATH/106H>); 5 hrs PHYS; METR 475

(<http://bulletin.unl.edu/courses/METR/475>)/875

(<http://bulletin.unl.edu/courses/METR/875>).

METR 483 (<http://bulletin.unl.edu/courses/METR/483>)/883

(<http://bulletin.unl.edu/courses/METR/883>)/NRES 467

(<http://bulletin.unl.edu/courses/NRES/467>)/867

(<http://bulletin.unl.edu/courses/NRES/867>) is offered fall semester of even-numbered calendar years.

Elements of climate systems, El Nino/LaNina cycle and monsoons, natural variability of climate on interannual and interdecadal scales. Paleoclimate, and future climate, developed climate change scenarios and climate change impacts on natural resources and the environment.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

NRES

406/806

Plant Ecophysiology: Theory and Practice

Crosslisted as *HORT 406/806, AGRO 406/806*

[LINK \(http://bulletin.unl.edu/courses/NRES/406\)](http://bulletin.unl.edu/courses/NRES/406)

Prereqs:

Junior standing; 4 hrs ecology; and 4 hrs botany or plant physiology.

Offered fall semester of even-numbered calendar years.

Principles of plant physiology which underlie the relationship between plants and their physical, chemical and biotic environments. An introduction to the

Credit Hours: 4

Course Format: Lecture 3, Lab 1

Course Delivery: Classroom

ecological niche, limiting factors and adaptation. An overview of the seed germination and ecology, plant and soil water relations, nutrients, plant energy budgets, photosynthesis, carbon balance and plant–animal interactions. An introduction to various field equipment used in ecophysiological studies.

NRES
408/808

Microclimate: The Biological Environment

[LINK \(http://bulletin.unl.edu/courses/NRES/408\)](http://bulletin.unl.edu/courses/NRES/408)

Crosslisted as *GEOG 408/808, METR 408/808, HORT 408/808, AGRO 408/808, WATS 408*

Prereqs:
Junior standing, [MATH 106 \(http://bulletin.unl.edu/courses/MATH/106\)](http://bulletin.unl.edu/courses/MATH/106) or equivalent, 5 hrs physics, major in any of the physical or biological sciences or engineering; or permission.

Physical factors that create the biological environment. Radiation and energy balances of earth's surfaces, terrestrial and marine. Temperature, humidity, and wind regimes near the surface. Control of the physical environment through irrigation, windbreaks, frost protection, manipulation of light, and radiation. Applications to air pollution research. Instruments for measuring environmental conditions and remote sensing of the environment.

Credit Hours:	3
Course Delivery:	Classroom

NRES
417/817

Agroforestry Systems in Sustainable Agriculture

[LINK \(http://bulletin.unl.edu/courses/NRES/417\)](http://bulletin.unl.edu/courses/NRES/417)

Crosslisted as *HORT 418/818*

Prereqs:
12 hours biological or agricultural sciences.

At least one course in production agriculture and one course in natural resources is strongly suggested. Offered odd-numbered calendar years.

The roles of woody plants in sustainable agricultural systems of temperate regions. Emphasis on the ecological and economic benefits of trees and shrubs in the agricultural landscape. Topics include: habitat diversity and biological control; shelterbelts structure, function, benefits and design; intercropping systems; silvopastoral systems; riparian systems; and production of timber and specialty crops. Comparison of temperate agroforestry systems to those of tropical areas.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES
421/821

Field Techniques in Remote Sensing

[LINK \(http://bulletin.unl.edu/courses/NRES/421\)](http://bulletin.unl.edu/courses/NRES/421)

Crosslisted as *GEOG 421/821*

Prereqs:
[NRES 418 \(http://bulletin.unl.edu/courses/NRES/418\)](http://bulletin.unl.edu/courses/NRES/418)/[818 \(http://bulletin.unl.edu/courses/NRES/818\)](http://bulletin.unl.edu/courses/NRES/818).

Field techniques as they relate to remote–sensing campaigns. Research methods, systematic approaches to data collection, field spectroscopy, collecting ancillary information linked with spectroscopic data sets as well as aircraft or satellite missions and subsequent analyses of acquired data.

Credit Hours:	3
Course Format:	Lecture 2, Lab
Course Delivery:	Classroom

NRES
422/822

Laboratory Earth: Earth's Changing Systems

[LINK \(http://bulletin.unl.edu/courses/NRES/422\)](http://bulletin.unl.edu/courses/NRES/422)

Fundamental concepts related to understanding Earth's changing natural systems in the past, present, and the future. The cycling of matter and energy; the relationship between human activity and environmental change; and the consequence of these relationships.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

NRES
424/824

Forest Ecology

[LINK \(http://bulletin.unl.edu/courses/NRES/424\)](http://bulletin.unl.edu/courses/NRES/424)

Prereqs:
NRES/BIOS 220 (<http://bulletin.unl.edu/courses/BIOS/220>).

Requires a weekend field trip to forested sites in Nebraska.

Ecology of North American forests. Woodland and savanna vegetation in the Great Plains. Identification of native trees and shrubs.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Course Delivery:	Classroom

NRES **Leadership in Public Organizations**

428/828

Crosslisted as *ALEC 428*

LINK (<http://bulletin.unl.edu/courses/NRES/428>)

Prereqs:
Junior standing.

Leadership in theories, research, and practices in public organizations and natural resource agencies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES **Wildlife Management Techniques**

433/833

Prereqs:
NRES 311 (<http://bulletin.unl.edu/courses/NRES/311>).

Offered in fall of even-numbered years. Offered in summer of odd-numbered years at Cedar Point Biological Station.

Survey of quantitative techniques used in wildlife management. Scientific method of wildlife science; surveys; habitat use and classification; forensic methods; and population inventories. Introduction to the use of computer-based geographic information systems (GIS) in a natural resource context.

LINK (<http://bulletin.unl.edu/courses/NRES/433>)

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

NRES **Environmental Education and Interpretation**

434/834

Crosslisted as *ENVR 434*

LINK (<http://bulletin.unl.edu/courses/NRES/434>)

Examination of formal and informal environmental education and interpretation. Knowledge, application and practice relevant to science teachers and park, extension, museums, and zoo educators.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

NRES **Human Remains in Forensic Science**

445/845

Crosslisted as *FORS 445/845*

LINK (<http://bulletin.unl.edu/courses/NRES/445>)

Prereqs:
FORS 120 (<http://bulletin.unl.edu/courses/FORS/120>).

Forensic anthropology within the broader context of forensic sciences and physical anthropology. Decomposition and bone modification through artificial means. Determination of individual identity, diet, chronic pathology and cause of death from human remains.

Credit Hours:	4
Course Format:	Lab 2, Lecture 2
Course Delivery:	Classroom

NRES **Pollen Analysis for Behavioral, Biological, and Forensic Science**

446/846

Crosslisted as *FORS 446/846*

LINK (<http://bulletin.unl.edu/courses/NRES/446>)

Prereqs:
BIOS 109 (<http://bulletin.unl.edu/courses/BIOS/109>) and FORS 120 (<http://bulletin.unl.edu/courses/FORS/120>).

Collection, processing, identification of common North American pollen types. Pollination ecology relating to scene reconstruction. Fundamental

Credit Hours:	4
Course Format:	Lab 2, Lecture 2
Course Delivery:	Classroom

NRES

450/850

Biology of Wildlife Populations

Crosslisted as *BIOS 450/850*

[LINK \(http://bulletin.unl.edu/courses/NRES/450\)](http://bulletin.unl.edu/courses/NRES/450)

Prereqs:

[BIOS 220 \(http://bulletin.unl.edu/courses/BIOS/220\)](http://bulletin.unl.edu/courses/BIOS/220).

Principles of population dynamics. Management strategies (for consumptive and nonconsumptive fish and wildlife species) presented utilizing principles developed.

Credit Hours:	4
Course Format:	Lecture 3, Lab 3
Course Delivery:	Classroom

NRES

451

Soil Environmental Chemistry

Crosslisted as *ENVE 851*

[LINK \(http://bulletin.unl.edu/courses/NRES/451\)](http://bulletin.unl.edu/courses/NRES/451)

Prereqs:

[CHEM 252 \(http://bulletin.unl.edu/courses/CHEM/252\)](http://bulletin.unl.edu/courses/CHEM/252).

Offered in spring semester of even-numbered calendar years

Theory, mechanisms and processes related to chemical behavior in soil-water environments. Application of computer simulation models for predicting contaminant fate in soil. Basic chemical and biological principles of remediating contaminated soil and water.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES

452/852

Climate and Society

Crosslisted as *GEOG 450/850, METR 450/850, AGRO 450/850*

[LINK \(http://bulletin.unl.edu/courses/NRES/452\)](http://bulletin.unl.edu/courses/NRES/452)

Prereqs:

[METR 200 \(http://bulletin.unl.edu/courses/METR/200\)](http://bulletin.unl.edu/courses/METR/200) or [351 \(http://bulletin.unl.edu/courses/METR/351\)](http://bulletin.unl.edu/courses/METR/351) or equivalent.

Offered spring semester of even-numbered calendar years.

Impact of climate and extreme climatic events on society and societal responses to those events. Global in scope and interdisciplinary.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

NRES

458/858

Soil Physical Determinations

Crosslisted as *AGRO 458/858, SOIL 458*

[LINK \(http://bulletin.unl.edu/courses/NRES/458\)](http://bulletin.unl.edu/courses/NRES/458)

Prereqs:

[SOIL/AGRO/GEOL/WATS 361 \(http://bulletin.unl.edu/courses/WATS/361\)](http://bulletin.unl.edu/courses/SOIL/AGRO/GEOL/WATS/361); [PHYS 141 \(http://bulletin.unl.edu/courses/PHYS/141\)](http://bulletin.unl.edu/courses/PHYS/141) or equivalent; [MATH 102 \(http://bulletin.unl.edu/courses/MATH/102\)](http://bulletin.unl.edu/courses/MATH/102) or [103 \(http://bulletin.unl.edu/courses/MATH/103\)](http://bulletin.unl.edu/courses/MATH/103).

Capstone course. Lab 3, plus 3 hrs arr. Grad students in NRES/AGRO 458 (http://bulletin.unl.edu/courses/AGRO/458)/858 (http://bulletin.unl.edu/courses/AGRO/858) or SOIL 458 (http://bulletin.unl.edu/courses/SOIL/458) are expected to carry out an independent project and give an oral report.

Survey of measurement techniques and principles used in characterizing the physical properties of soils. Includes analysis of experimental design and sources of experimental error. Techniques include: particle size analysis, soil water content, pore size analysis, field sampling techniques, soil strength, and saturated hydraulic conductivity.

Credit Hours:	2
Course Format:	Lab 3
Course Delivery:	Classroom

NRES

459/859

Limnology

Crosslisted as *BIOS 459/859, WATS 459*

[LINK \(http://bulletin.unl.edu/courses/NRES/459\)](http://bulletin.unl.edu/courses/NRES/459)

Prereqs:
12 hrs BIOS, including BIOS/[NRES 220](http://bulletin.unl.edu/courses/NRES/220)
(<http://bulletin.unl.edu/courses/NRES/220>)/BIOS220x; two semesters CHEM.

May also be offered at Cedar Point Biological Station.

Physical, chemical, and biological processes that occur in fresh water. Organisms occurring in fresh water and their ecology; biological productivity of water and its causative factors; eutrophication and its effects.

Credit Hours:	4
Course Format:	Lecture 3, Lab 4
Course Delivery:	Classroom

NRES Soil Physics

461/861

Crosslisted as *GEOL 461/861, AGRO 461/861, SOIL 461, WATS 461*

[LINK \(http://bulletin.unl.edu/courses/NRES/461\)](http://bulletin.unl.edu/courses/NRES/461)

Prereqs:
AGRO/[SOIL 153](http://bulletin.unl.edu/courses/SOIL/153) (<http://bulletin.unl.edu/courses/SOIL/153>); PHYS 141 (<http://bulletin.unl.edu/courses/PHYS/141>) or equivalent, one semester of calculus.

Recommended: Parallel AGRO/NRES/[SOIL 458](http://bulletin.unl.edu/courses/SOIL/458)
(<http://bulletin.unl.edu/courses/SOIL/458>).

Principles of soil physics. Movement of water, air, heat, and solutes in soils. Water retention and movement, including infiltration and field water regime. Movement of chemicals in soils.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES Fisheries Science

463/863

This course is a prerequisite for: [NRES 871](http://bulletin.unl.edu/courses/NRES/871) (<http://bulletin.unl.edu/courses/NRES/871>), [NRES 965](http://bulletin.unl.edu/courses/NRES/965) (<http://bulletin.unl.edu/courses/NRES/965>)

May also be offered at Cedar Point Biological Station.

Fisheries biology emphasizing the determination and evaluation of vital statistics for the management of fish populations. Basis of specific management techniques.

[LINK \(http://bulletin.unl.edu/courses/NRES/463\)](http://bulletin.unl.edu/courses/NRES/463)

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 [?]

NRES Fisheries Biology

464/864

Crosslisted as *BIOS 464/864*

[LINK \(http://bulletin.unl.edu/courses/NRES/464\)](http://bulletin.unl.edu/courses/NRES/464)

Prereqs:
BIOS/[NRES 489](http://bulletin.unl.edu/courses/NRES/489) (<http://bulletin.unl.edu/courses/NRES/489>)/[889](http://bulletin.unl.edu/courses/NRES/889)
(<http://bulletin.unl.edu/courses/NRES/889>) or equivalent.

Biology of fishes. Factors that affect fishes in the natural environment. Techniques used in the analysis and management of fish populations.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES Wetlands

468/868

Crosslisted as *BIOS 458, WATS 468*

[LINK \(http://bulletin.unl.edu/courses/NRES/468\)](http://bulletin.unl.edu/courses/NRES/468)

Prereqs:
12 hrs biological sciences; BIOS 220 (<http://bulletin.unl.edu/courses/BIOS/220>); CHEM 109 (<http://bulletin.unl.edu/courses/CHEM/109>) and 110 (<http://bulletin.unl.edu/courses/CHEM/110>).

Offered even-numbered calendar years.

Physical, chemical and biological processes that occur in wetlands; the hydrology and soils of wetland systems; organisms occurring in wetlands and their ecology wetland creation, delineation, management and ecotoxicology.

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Classroom

NRES

469/869

Bio-Atmospheric Instrumentation[LINK \(http://bulletin.unl.edu/courses/NRES/469\)](http://bulletin.unl.edu/courses/NRES/469)Crosslisted as *GEOG 469/869, METR 469/869, HORT 407/807, AGRO 469/869, MSYM 469/869***Prereqs:****Junior standing; MATH 106****(<http://bulletin.unl.edu/courses/MATH/106>); 4 hrs physics; physical or biological science major.***Offered fall semester of odd-numbered calendar years.*

Discussion and practical application of principles and practices of measuring meteorological and related variables near the earth's surface including temperature, humidity, precipitation, pressure, radiation and wind. Performance characteristics of sensors and modern data collection methods are discussed and evaluated.

Credit Hours:	3
Course Format:	Lecture 2, Lab 1
Course Delivery:	Classroom

NRES

474/874

Herpetology[LINK \(http://bulletin.unl.edu/courses/NRES/474\)](http://bulletin.unl.edu/courses/NRES/474)Crosslisted as *BIOS 474/874***Prereqs:****BIOS/NRES 386 (<http://bulletin.unl.edu/courses/NRES/386>) and permission. BIOS 388 (<http://bulletin.unl.edu/courses/BIOS/388>) recommended.***May also be offered at Cedar Point Biological Station.*

Fossil and living amphibians and reptiles. Anatomy, classification, ecology and evolution.

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Classroom

NRES

476/876

Mammalogy[LINK \(http://bulletin.unl.edu/courses/NRES/476\)](http://bulletin.unl.edu/courses/NRES/476)Crosslisted as *BIOS 476/876***Prereqs:****8 hrs BIOS; BIOS/NRES 386 (<http://bulletin.unl.edu/courses/NRES/386>) or NRES 311 (<http://bulletin.unl.edu/courses/NRES/311>).***May also be offered at Cedar Point Biological Station. Field trips are required and may occur outside of scheduled class time. Lab and field time emphasize diversity of mammalian families and species identification of Nebraska mammals.*

Evolution, natural history, ecology, and functional morphology of planetary mammals and mammals of the Northern Great Plains.

Credit Hours:	4
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES

477/877

Great Plains Field Pedology[LINK \(http://bulletin.unl.edu/courses/NRES/477\)](http://bulletin.unl.edu/courses/NRES/477)Crosslisted as *GEOG 467/867, AGRO 477, SOIL 477***Prereqs:****AGRO/SOIL 153 (<http://bulletin.unl.edu/courses/SOIL/153>).**This course is a prerequisite for: [GEOL 465 \(http://bulletin.unl.edu/courses/GEOL/465\)](http://bulletin.unl.edu/courses/GEOL/465)

Spatial relationship of soil properties on various parts of landscape typical of the Plains, causal factors, and predictions of such relationships on other landscapes. Grouping these properties into classes, naming the classes, and the taxonomy that results from this grouping. Application of a taxonomy to a real situation through making a field soil survey in a region representative of the Plains border, predicting land use response of various mapped units as it affects the ecosystem, and evaluating the effectiveness of the taxonomic system used in the region surveyed.

Credit Hours:	4
Course Format:	Lab, Lecture 3
Course Delivery:	Classroom

NRES

478/878

Regional Climatology[LINK \(http://bulletin.unl.edu/courses/NRES/478\)](http://bulletin.unl.edu/courses/NRES/478)Crosslisted as *METR 478/878*

Prereqs:
NRES/METR 370 (<http://bulletin.unl.edu/courses/METR/370>).

Regional differentiation of the climates of the earth on both a descriptive and dynamic basis. The chief systems of climatic classification.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES Hydroclimatology

479/879

Crosslisted as METR 479/879, WATS 479

[LINK \(http://bulletin.unl.edu/courses/NRES/479\)](http://bulletin.unl.edu/courses/NRES/479)

Prereqs:
NRES 208 (<http://bulletin.unl.edu/courses/NRES/208>) or METR 200 (<http://bulletin.unl.edu/courses/METR/200>) or METR/NRES 370 (<http://bulletin.unl.edu/courses/NRES/370>).

Offered fall semester of even-numbered calendar years.

Interaction between earth's climate and the hydrologic cycle. Energy and water fluxes at the land-atmosphere interface. Atmospheric moisture transport, precipitation, evaporation, snowmelt, and runoff. Impacts of climate variability and change on the hydrologic cycle.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES Water Resources Seminar

484/884

Crosslisted as GEOG 484/884, GEOL 484/884, AGRO 484/884, WATS 484

[LINK \(http://bulletin.unl.edu/courses/NRES/484\)](http://bulletin.unl.edu/courses/NRES/484)

Prereqs:
Junior or above standing, or permission.

Seminar on current water resources research and issues in Nebraska and the region.

Credit Hours:	1
Course Format:	Lecture 1
Course Delivery:	Classroom

NRES Groundwater Geology

488/888

Crosslisted as GEOL 488/888

[LINK \(http://bulletin.unl.edu/courses/NRES/488\)](http://bulletin.unl.edu/courses/NRES/488)

Prereqs:
GEOL 100-level course; MATH 106 (<http://bulletin.unl.edu/courses/MATH/106>) or equivalent.

This course is a prerequisite for: [GEOL 889 \(http://bulletin.unl.edu/courses/GEOL/889\)](http://bulletin.unl.edu/courses/GEOL/889), [NRES 918 \(http://bulletin.unl.edu/courses/NRES/918\)](http://bulletin.unl.edu/courses/NRES/918)

Occurrence, movement, and development of water in the geologic environment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

NRES Study Tours in Natural Resource Management

492/892

[LINK \(http://bulletin.unl.edu/courses/NRES/492\)](http://bulletin.unl.edu/courses/NRES/492)

Prereqs:
Permission.

Off-campus travel may be required. Choice of subject matter and coordination of on- and off-campus study is at the discretion of the instructor.

Group educational tours to specific sites that illustrate aspects of natural resources management.

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Lecture
Course Delivery:	Classroom

NRES Special Topics in Natural Resources

498/898

[LINK \(http://bulletin.unl.edu/courses/NRES/498\)](http://bulletin.unl.edu/courses/NRES/498)

Prereqs:
6 hrs NRES or equivalent.

Current issues in natural resource sciences.

Credit Hours: 1-6

Max credits per degree: 12

Course Format: Lecture

Course Delivery: Classroom

NRES

803

Ecological Statistics

Crosslisted as *STAT 803*

[LINK \(http://bulletin.unl.edu/courses/NRES/803\)](http://bulletin.unl.edu/courses/NRES/803)

Prereqs:
STAT *801 or equivalent.

Model-based inference for ecological data, generalized linear and additive models, mixed models, survival analysis, multi-model inference and information theoretic model selection, and study design.

Credit Hours: 4

Course Format: Lab 1, Lecture 3

Campus:

Course Delivery: Classroom

NRES

809

Laboratory Earth: Earth and Its Systems

[LINK \(http://bulletin.unl.edu/courses/NRES/809\)](http://bulletin.unl.edu/courses/NRES/809)

The earth as a system and the "real world" applications of fundamental physical science processes in this system. Interaction of energy and matter in the geosphere, in the hydrosphere, and in the atmosphere. The earth's relationships to the sun, moon, and other astronomical objects in the solar system.

Credit Hours: 3

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

NRES

814

Laboratory Earth: Earth's Natural Resource Systems

[LINK \(http://bulletin.unl.edu/courses/NRES/814\)](http://bulletin.unl.edu/courses/NRES/814)

Fundamental concepts in the Earth and physical sciences in the understanding of Earth's natural resource systems. Rock and mineral, water, soil, and energy resources. Social factors, human dependence, and the impact of these on natural resource systems.

Credit Hours: 3

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

NRES

823

Integrated Resources Management

[LINK \(http://bulletin.unl.edu/courses/NRES/823\)](http://bulletin.unl.edu/courses/NRES/823)

Prereqs:
Natural resource science or related major; permission

Integrated and multiple-use management. Economic, political, social, and physical impacts on natural resources management priorities.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

NRES

830

Laboratory Earth: Climate Research Applications

[LINK \(http://bulletin.unl.edu/courses/NRES/830\)](http://bulletin.unl.edu/courses/NRES/830)

*Designed for science educators. *NRES 830 (http://bulletin.unl.edu/courses/NRES/830) is offered fall semesters.*

Climate-change issues serve as a context to develop research questions and design a discrete, locally oriented research project through which they define a problem, analyze data, and develop conclusions to potentially impact decision-making in their community.

Credit Hours: 3

Course Format: Lab, Lecture

Course Delivery: Web

NRES

Laboratory Earth: Human Dimensions of Climate Change

[LINK \(http://bulletin.unl.edu/courses/NRES/832\)](http://bulletin.unl.edu/courses/NRES/832)

832

Designed for science educators. *NRES 832 (<http://bulletin.unl.edu/courses/NRES/832>) is offered spring semesters.

Examine science behind global climate change. Use primary data sets to understand the implications for climate change at global and regional/local scales. Focus on potential impacts on human systems including drought, sea level rise, severe weather and populations most likely to be impacted by climate change.

Credit Hours:	3
Course Format:	Lab, Lecture
Course Delivery:	Web

NRES
848

Advanced Topics in Wildlife Damage Management

[LINK \(http://bulletin.unl.edu/courses/NRES/848\)](http://bulletin.unl.edu/courses/NRES/848)

Prereqs:
NRES 348 (<http://bulletin.unl.edu/courses/NRES/348>)

Participation in a three day professional conference is strongly encouraged. Economic, global, and public policy issues relative to situations in which wildlife damage personal property or natural resources, threaten human health and safety, or are a nuisance. Technological advances in fertility control, damage resistance, toxicology, behavioral modification and biological management.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

NRES
862

Conservation Biology

[LINK \(http://bulletin.unl.edu/courses/NRES/862\)](http://bulletin.unl.edu/courses/NRES/862)

Prereqs:
12 hours of biological sciences, including BIOS 320 (<http://bulletin.unl.edu/courses/BIOS/320>) or AGRO 315 (<http://bulletin.unl.edu/courses/AGRO/315>) or equivalent

Typically offered second semester. Current issues in conservation biology. Theoretical principles from the areas of ecology and genetics to effectively preserve and manage biological diversity and small populations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

NRES
870

Lake and Reservoir Restoration

[LINK \(http://bulletin.unl.edu/courses/NRES/870\)](http://bulletin.unl.edu/courses/NRES/870)

Prereqs:
12 hrs NRES or related fields

NRES 470 (<http://bulletin.unl.edu/courses/NRES/470/870>) (<http://bulletin.unl.edu/courses/NRES/870>) is offered even-numbered calendar years.

Theory, processes, and mechanisms underlying lake and reservoir water quality degradation and/or pollution. Remediation of eutrophication and its effects. Current techniques used to restore and protect degraded lakes.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NRES
871

Quantitative Fishery Assessment

[LINK \(http://bulletin.unl.edu/courses/NRES/871\)](http://bulletin.unl.edu/courses/NRES/871)

Prereqs:
STAT 218 (<http://bulletin.unl.edu/courses/STAT/218>) or equivalent; NRES 463 (<http://bulletin.unl.edu/courses/NRES/463/863>) or equivalent; BIOS/NRES 489 (<http://bulletin.unl.edu/courses/NRES/489/889>) or equivalent.

Offered spring semester of even-numbered calendar years.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Advanced quantitative techniques of fishery science required to support management practices targeted at populations (recruitment, growth and mortality), communities (e.g., predator-prey interactions) and ecosystems e.g., bio-stressors).

NRES

880

Vertebrate Population Analysis

[LINK \(http://bulletin.unl.edu/courses/NRES/880\)](http://bulletin.unl.edu/courses/NRES/880)

Prereqs:

12 hrs. of biological sciences, [MATH 104](http://bulletin.unl.edu/courses/MATH/104) (<http://bulletin.unl.edu/courses/MATH/104>) or [106](http://bulletin.unl.edu/courses/MATH/106) (<http://bulletin.unl.edu/courses/MATH/106>).

NRES 880 (<http://bulletin.unl.edu/courses/NRES/880>) is offered spring semester of even years.

Introduction to the estimation of demographic parameters from surveys and mark-recapture data. Emphasizes analytical skills used to estimate population vital rates, such as abundance, density, population size, survival rates, home range size, and movement rates. Reinforces use of multiple hypotheses in scientific investigations, as well as model selection processes.

Credit Hours:	4
Course Format:	Lecture
Course Delivery:	Classroom

NRES

891

Seminar in Natural Resource Sciences

[LINK \(http://bulletin.unl.edu/courses/NRES/891\)](http://bulletin.unl.edu/courses/NRES/891)

Presentations of special non-thesis topics, and/or research plans, and/or thesis research results.

Credit Hours:	1
Max credits per degree:	2
Campus:	
Course Delivery:	Classroom

NRES

896

Independent Study

[LINK \(http://bulletin.unl.edu/courses/NRES/896\)](http://bulletin.unl.edu/courses/NRES/896)

Prereqs:

12 hrs natural resource sciences or closely-related fields; permission

Individual or group projects in research, literature review or extension of course work under supervision and evaluation of a departmental faculty member.

Credit Hours:	1-5
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

NRES

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/NRES/899\)](http://bulletin.unl.edu/courses/NRES/899)

Prereqs:

Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

NRES

918

Applied Groundwater Modeling

[LINK \(http://bulletin.unl.edu/courses/NRES/918\)](http://bulletin.unl.edu/courses/NRES/918)

Prereqs:

[GEOL/NRES 488](http://bulletin.unl.edu/courses/NRES/488) (<http://bulletin.unl.edu/courses/NRES/488>)/[888](http://bulletin.unl.edu/courses/NRES/888) (<http://bulletin.unl.edu/courses/NRES/888>) or *[889, MATH 208](http://bulletin.unl.edu/courses/MATH/208) (<http://bulletin.unl.edu/courses/MATH/208>)/[208H](http://bulletin.unl.edu/courses/MATH/208H) (<http://bulletin.unl.edu/courses/MATH/208H>), or equivalent

Offered fall semester of odd-numbered calendar years. Forward and backward numerical analysis of groundwater flow systems and their

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

interactions with other hydro-logic components. Groundwater model development and parameter estimation using MODFLOW, PEST, and other widely used modeling packages.

NRES
920

Xenobiotics in the Environment

Crosslisted as *ENTO 920, HORT 920, AGRO 920*

[LINK \(http://bulletin.unl.edu/courses/NRES/920\)](http://bulletin.unl.edu/courses/NRES/920)

Prereqs:

Recommend one course each in organic chemistry, soil science, biochemistry, plant physiology, microbiology and ecology

ENTO 920 (http://bulletin.unl.edu/courses/ENTO/920) is offered in odd-numbered calendar years.

Fate and ecotoxicological impacts of biologically foreign compounds in soil-water-plant environments; uptake, mechanisms of toxicity and metabolism in plants and other biota. Herbicides and other pesticides.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NRES
922

Seminar in Geographic Information Systems (GIS)

Crosslisted as *GEOG 922*

[LINK \(http://bulletin.unl.edu/courses/NRES/922\)](http://bulletin.unl.edu/courses/NRES/922)

Prereqs:

[GEOG/NRES 812 \(http://bulletin.unl.edu/courses/NRES/812\)](http://bulletin.unl.edu/courses/NRES/812) and [822 \(http://bulletin.unl.edu/courses/NRES/822\)](http://bulletin.unl.edu/courses/NRES/822); or equivalent

Study of current research and trends in geographic information systems (GIS), GIScience, and GeoComputation. Advanced spatial analytical techniques and geospatial modeling emphasizing GIS applications in natural resources assessment, environmental analyses, agriculture, and land management.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NRES
965

Managed Aquatic Systems

[LINK \(http://bulletin.unl.edu/courses/NRES/965\)](http://bulletin.unl.edu/courses/NRES/965)

Prereqs:

[NRES 463 \(http://bulletin.unl.edu/courses/NRES/463\)/863 \(http://bulletin.unl.edu/courses/NRES/863\)](http://bulletin.unl.edu/courses/NRES/463/863) or equivalent; [BIOS/NRES 489 \(http://bulletin.unl.edu/courses/NRES/489\)/889 \(http://bulletin.unl.edu/courses/NRES/889\)](http://bulletin.unl.edu/courses/NRES/489/889) or equivalent; and permission.

Offered spring semester of odd-numbered calendar years.

Theoretical aspects of structure and function in aquatic systems managed for human needs, ecological processes, river-reservoir interface, energy flow (including fate and transport), population dynamics, and multiple-use systems.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NRES
996

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/NRES/996\)](http://bulletin.unl.edu/courses/NRES/996)

Prereqs:

Permission

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

NRES
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/NRES/999\)](http://bulletin.unl.edu/courses/NRES/999)

Prereqs:

Admission to doctoral degree program and permission of supervisory

Credit Hours:	1-24
Max credits per degree:	55

Ω

Courses for NREE (NREE)

AECN

456/856

Environmental Law

Crosslisted as *NREE 456*
[LINK \(http://bulletin.unl.edu/courses/AECN/456\)](http://bulletin.unl.edu/courses/AECN/456)

Prereqs:

Junior standing. [AECN/NREE 357](http://bulletin.unl.edu/courses/AECN/NREE/357)

(<http://bulletin.unl.edu/courses/NREE/357>) recommended.

Offered odd numbered years. Available through Extended Education and Outreach.

Administrative law, risk assessment, environmental impact review, Clean Air Act, Clean Water Act, non-point pollution control, wetlands regulations pesticide and toxic substance regulation, solid and hazardous waste regulation, drinking water protection, land use regulation, energy policy, and international environmental law.

Credit Hours:	3
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Course Format:	Personalized System of Instruction
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Course Delivery:	Classroom
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AECN

457/857

Water Law

Crosslisted as *NREE 457, WATS 457*
[LINK \(http://bulletin.unl.edu/courses/AECN/457\)](http://bulletin.unl.edu/courses/AECN/457)

Prereqs:

[AECN/NREE 357](http://bulletin.unl.edu/courses/AECN/NREE/357) (<http://bulletin.unl.edu/courses/NREE/357>).

Course offered even numbered years. Offered through Extended Education and Outreach.

Environmental impact review; public trust doctrine; endangered species; land use controls; wetlands regulation; surface and ground water rights; Indian and federal water rights; impact of water quality regulations on water allocation.

Credit Hours:	3
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Max credits per degree:	3
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Course Format:	Personalized System of Instruction
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Course Delivery:	Classroom
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AECN

465/865

Resource and Environmental Economics II

Crosslisted as *NREE 465, WATS 465*
[LINK \(http://bulletin.unl.edu/courses/AECN/465\)](http://bulletin.unl.edu/courses/AECN/465)

Prereqs:

[MATH 104](http://bulletin.unl.edu/courses/MATH/104) (<http://bulletin.unl.edu/courses/MATH/104>) and one course in statistics.

Credit in [AECN 865](http://bulletin.unl.edu/courses/AECN/865) (<http://bulletin.unl.edu/courses/AECN/865>) will not count toward any advanced degree programs in *ECON* or *AECN*.

Application of resource economics concepts and empirical tools to resource management problems. Public policy issues involving environmental quality, land and water management.

Credit Hours:	3
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Course Format:	Lecture 3
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Course Delivery:	Classroom
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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/NaturalResources). (<http://www.unl.edu/gradstudies/prospective/programs/NaturalResources>)

Director of the School of Natural Resources: Tala Awada, Ph.D.

Graduate Committee: Professor Walter-Shea (chair); Associate Professor Pope; Associate Geoscientist Burbach; Assistant Professors Guan, Shulski

The School of Natural Resources (SNR) offers graduate programs leading to a master of science or doctor of philosophy degree in a rich spectrum of areas in natural resources. The broad diversity of climate, hydrology, soils, surface and subsurface geology, habitats, and flora and fauna across Nebraska provides many opportunities for field studies. Faculty are not limited to research within Nebraska and have projects in other states and countries as well. Excellent laboratory and

computer facilities, and museum collections are available for performing up-to-date analyses. Water chemistry, GIS, computer modeling, and remote sensing and image analysis are state-of-the-art facilities. Unique opportunities for cooperative research are also available through many state, federal, and private organizations. Courses are offered within the various areas of emphasis within SNR: Biological Resources, Climate and Bio-Atmospheric Systems, Earth Resources, Ecosystem Science, Geospatial Information, Human Dimensions and Water Science.

Master of Science Degree

The master of science degree provides students with an interdisciplinary education in natural resource sciences, encompassing the biological, atmospheric, water, earth and geospatial information resources, as well as in the related human and community elements.

Applicants for admission to the program are required to have maintained an undergraduate grade point average of at least 3.0 (on a 4.0 system), submit scores for the general Graduate Record Examination (verbal-500, quantitative-620 and analytical writing-4.0), three letters of recommendation, a statement of purpose, and satisfy the general admission requirements of the Graduate College. Admission to full graduate standing in the MS program requires an earned baccalaureate and demonstrated proficiency in mathematics, physics, chemistry, life sciences, and earth sciences. Contact the SNR Graduate Secretary for specific course requirements. A TOEFL score of at least 600 paper, 300 computer, or 79 Internet is required for students whose native language is not English and who have not earned a baccalaureate in the US. The master of science program may be carried out under Option I or II conforming to the general requirements of the Graduate College.

Doctor of Philosophy Degree

The doctor of philosophy degree provides students with advanced interdisciplinary education, encompassing the biological, atmospheric, water, earth and geospatial information resources, as well as in the related human and community elements.

Students applying for admission to the doctor of philosophy program must provide evidence of preparation in his/her anticipated field of emphasis in addition to meeting Graduate College admissions requirements. Additional requirements will be as stipulated by the SNR Graduate Committee and prospective adviser(s). Admission to Candidacy for the PhD degree requires the successful completion of a written, and oral comprehensive examination.

Specialization Areas

Currently thirteen specializations are available at the masters level: Adaptive Management, Agroforestry, Aquatic Ecology, Bio-Atmospheric Interactions, Climate Assessment and Impacts, Environmental Studies, Geographic Information Systems (GIS), Great Plains Studies, Human Dimensions, Hydrologic Sciences, Remote Sensing, Soil Science, and Wildlife Ecology. Students can also pursue a masters degree with a minor in Water Resources Planning and Management. At present, only Adaptive Management, Applied Ecology, Bio-Atmospheric Interactions, Climate Assessment and Impacts, Environmental Studies, Human Dimensions, Hydrologic Sciences, and Soil Science specializations are available at the doctoral level. Other specializations may become available pending approval. A student does not have to declare an area of specialization.

NOTE: This bulletin may not reflect some subsequent revisions in the School of Natural Resources (SNR) programs. Students should check with the SNR Graduate Secretary for up-to-date changes which have been approved by the SNR Graduate Committee.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/NaturalResources). (<http://www.unl.edu/gradstudies/prospective/programs/NaturalResources>)

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Nutrition

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Nutrition). (<http://www.unl.edu/gradstudies/prospective/programs/Nutrition>)

Area Committee: Professor J. Albrecht (chair); Associate Professors Erickson, Zemleni

Departments Cooperating: Animal Science, Food Science and Technology, Nutrition and Health Sciences

The nutrition area offers programs of study leading to master of science and doctor of philosophy degrees. The Area Committee will evaluate the qualifications for the admission of students leading to masters and doctoral degrees in this area. Students applying for study in the nutrition area must present a bachelors degree preferably in agriculture, biological sciences, biochemistry, chemistry, or food and nutrition and indicate a departmental preference based on research interest. Identification of a departmental affiliation or preference is especially important for students seeking an assistantship. Applicants must submit GRE scores (verbal, quantitative, and analytical). Desirable undergraduate background includes courses in biology, zoology, physiology, mathematics, organic chemistry, and biochemistry. In addition, sociology, psychology, and anthropology are desirable background courses for students interested in pursuing a degree in human nutrition. If appropriate background is lacking, undergraduate courses may be required as specified by the Area Committee.

The requirements for admission to candidacy and for courses and thesis or doctoral dissertation are those established and maintained by the Graduate College. Masters degree proposals are approved by the adviser in consultation with the chairperson of the Area Committee and PhD programs by the student's supervisory committee.

Courses offered by cooperating units are listed below. Specific programs of study are developed for each student based on background, research interest, and career plans. Participation in the Interdepartmental Nutrition Seminar is required of all students enrolled in this area. MS students are required to enroll and present one seminar; PhD students are required to enroll and present two seminars.

More information is available at the following Web site: nsd.unl.edu/nsd/inp/inp.htm.

Descriptive information, prerequisites, etc., for each course are given in the appropriate departmental listing. Page numbers for departmental course listings are indicated in parentheses. Masters thesis and doctoral dissertation courses, 899 and 999 respectively, are offered in each cooperating department.

Offered in the Department of Animal Science

- 821. Advanced Animal Nutrition (3 cr I)
- 822. Advanced Feedlot Nutrition & Management (3 cr)
- 842. Endocrinology (BIOS, VBMS 842) (3 cr)
- 845. Physiology of Domestic Animals I (VBMS *845, BIOS *813) (4 cr)
- 846. Physiology of Domestic Animals II (VBMS *846, BIOS *814) (4 cr)
- 921. Interdepartmental Nutrition Seminar (NUTR 921) (1 cr per sem, max 4 I, II)
- 922. Advanced Animal Nutrition (Ruminant) (3 cr)
- 924. Forage Evaluation (AGRO 940) (3 cr II)
- 925. Energy Metabolism (NUTR 925) (3 cr I)
- 926. Carbohydrate & Lipid Nutrition (NUTR 926) (3 cr II)
- 927. Protein Nutrition (NUTR 927) (2 cr II)
- 927L. Protein Nutrition Lab (NUTR 927L) (1 cr)
- 928. Mineral Nutrition (NUTR 928) (2 cr I)
- 928L. Mineral Nutrition Lab (NUTR 928L) (1 cr)
- 929. Vitamin Nutrition (NUTR 929) (3 cr II)

Offered in the Department of Nutrition and Health Sciences

- 805. Research Methods (3 cr)
- 857. Classroom & Outreach Experiences in Food & Nutrition (1–3 cr, max 3)
- 892. Nutrition Problems (1–6 cr)
- 896. Independent Study (1–5 cr)
- 898. Research Experiences (1–5 cr)
- 921. Interdepartmental Nutrition Seminar (ASCI 921) (1 cr per sem, max 4 I, II)
- 925. Energy Metabolism (ASCI 925) (3 cr I)
- 926. Carbohydrate & Lipid Nutrition (ASCI 926) (3 cr II)
- 927. Protein Nutrition (ASCI 927) (2 cr II)
- 927L. Protein Nutrition Lab (ASCI 927L) (1 cr)
- 928. Mineral Nutrition (ASCI 928) (2 cr I)
- 928L. Mineral Nutrition Lab (ASCI 928L) (1 cr)
- 929. Vitamin Nutrition (ASCI 929) (3 cr II)
- 950. Integrated Principles of Human Nutrition (3 cr)
- 952. Advanced Clinical Nutrition Seminar (2 cr)
- 954. Fundamentals of Nutrition Counseling (2 cr)
- 956. Community Nutrition (3 cr)
- 986. Graduate Seminar (1–2 cr per sem, max 4)
- 992. Advanced Human Nutrition Problems (1–4 cr per sem, max 4)

Q

Recommended Courses in Other Units

Offered in the Department of Biochemistry

- 831. Biochemistry I (BIOS, CHEM 831) (3 cr I, II, III)
- 832. Biochemistry II (BIOS, CHEM 832) (3 cr II)
- 833. Biochemistry Laboratory (BIOS, CHEM 833) (2 cr I, II)
- 837. Research Techniques in Biochemistry (BIOS 837) (4 cr II)
- 949. Biochemistry of Nutrition (BIOS 949) (3 cr I)

Offered in the Department of Food Science and Technology

- 805. Food Microbiology (BIOS 845) (3 cr I)
- 806. Food Microbiology Laboratory (BIOS 846)(2 cr I)
- 825. Food Toxicology (2 cr II)
- 848. Food Chemistry (3 cr I)
- 849. Food Chemistry Laboratory (1 cr I)
- 880. Advanced Food Science: Selected Topics (2–6 cr)

Offered in the Department of Statistics

- 801. Statistical Methods in Research (4 cr I, II)
- 802. Experimental Design, (3 cr I, II)

Offered in the Department of Veterinary and Biomedical Sciences

- 835. Animal Biochemistry (BIOS *835) (3 cr, II)
- 843. Immunology (BIOS 843) (3 cr)

Offered at the University of Nebraska Medical Center

- BIOC 810. Biochemistry I (6 cr)
- BIOC 811. Biochemistry II (2 cr)
- Physiology and Biophysics 810. Physiology (9 cr)

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Nutrition). (<http://www.unl.edu/gradstudies/prospective/programs/Nutrition>)

Retrieved from "<http://bulletin.unl.edu/graduate/Nutrition> (<http://bulletin.unl.edu/graduate/Nutrition>)"
[Back to Top \(#maincontent\)](#)

Nutrition and Health Sciences

Subject Areas

- [Hospitality, Restaurant, and Tourism Management \(HRTM\) \(#HRTM\)](#)
- [Nutrition and Health Sciences \(NUTR\) \(#NUTR\)](#)

Courses for HRTM (HRTM)

HRTM 474/874	Food and Beverage Management	LINK (http://bulletin.unl.edu/courses/HRTM/474)
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HRTM 474 (<http://bulletin.unl.edu/courses/HRTM/474>) is 'Letter Grade only'.

Functioning and operation of food-service units. Principles of food and beverage management.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HRTM 476/876	Internship in Hospitality Management	LINK (http://bulletin.unl.edu/courses/HRTM/476)
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Prereqs:
[HRTM 397 \(http://bulletin.unl.edu/courses/HRTM/397\)](http://bulletin.unl.edu/courses/HRTM/397) and permission of the Hospitality Management Committee.

HRTM 476 (<http://bulletin.unl.edu/courses/HRTM/476>)/876 (<http://bulletin.unl.edu/courses/HRTM/876>) requires a total of 400 hours of full-time experience. [HRTM 476 \(http://bulletin.unl.edu/courses/HRTM/476\)/876](http://bulletin.unl.edu/courses/HRTM/476) (<http://bulletin.unl.edu/courses/HRTM/876>) is 'Letter Grade only'.

Approved professional experience as an entry-level manager in the declared emphasis area of the hospitality industry.

Credit Hours:	3
Course Format:	Field 40
Course Delivery:	Classroom

HRTM 477/877	Hospitality Facility Planning and Purchasing	LINK (http://bulletin.unl.edu/courses/HRTM/477)
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Prereqs:
Junior standing; FACS or HRTM major.

HRTM 477 (<http://bulletin.unl.edu/courses/HRTM/477>)/877 (<http://bulletin.unl.edu/courses/HRTM/877>) is 'Letter Grade only'.

Hospitality facility concept development and planning. Selection and specification of food, equipment and furnishings resulting in effective resource utilization.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HRTM 478/878	Tourism Resources and Development	LINK (http://bulletin.unl.edu/courses/HRTM/478)
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Prereqs:
Junior standing; [HRTM 280 \(http://bulletin.unl.edu/courses/HRTM/280\)](http://bulletin.unl.edu/courses/HRTM/280); and permission.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

[HRTM 478 \(http://bulletin.unl.edu/courses/HRTM/478/878\)](http://bulletin.unl.edu/courses/HRTM/478/878)
 [\(http://bulletin.unl.edu/courses/HRTM/878\)](http://bulletin.unl.edu/courses/HRTM/878) is 'Letter grade only'.

Planning theories, procedures and guidelines needed to meet the needs of travelers, destination communities, tourism and hospitality organizations. Sustainable tourism principles, host-guest relationships, impacts of tourism, marketing and visitor satisfaction.

HRTM

Legal Environment in Hospitality Management

[LINK \(http://bulletin.unl.edu/courses/HRTM/481\)](http://bulletin.unl.edu/courses/HRTM/481)

481/881

Prereqs:
Senior standing; HRTM major or minor;

[HRTM 481 \(http://bulletin.unl.edu/courses/HRTM/481/881\)](http://bulletin.unl.edu/courses/HRTM/481/881)
 [\(http://bulletin.unl.edu/courses/HRTM/881\)](http://bulletin.unl.edu/courses/HRTM/881) is 'Letter grade only'.

Laws and regulations affecting the hospitality industry. Recognition of potential legal hazards, correcting hazardous situations, and reacting in unforeseen circumstances.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HRTM

Hospitality Finance

[LINK \(http://bulletin.unl.edu/courses/HRTM/483\)](http://bulletin.unl.edu/courses/HRTM/483)

483/883

Prereqs:
Senior standing; Major or minor in HRTM; HRTM 310
(<http://bulletin.unl.edu/courses/HRTM/310>)

[HRTM 483 \(http://bulletin.unl.edu/courses/HRTM/483/883\)](http://bulletin.unl.edu/courses/HRTM/483/883)
 [\(http://bulletin.unl.edu/courses/HRTM/883\)](http://bulletin.unl.edu/courses/HRTM/883) is 'Letter grade only'.

Introduction to basic skills of financial management in a hospitality industry setting.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HRTM

Advanced Lodging Operations

[LINK \(http://bulletin.unl.edu/courses/HRTM/485\)](http://bulletin.unl.edu/courses/HRTM/485)

485/885

Prereqs:
HRTM 285 (<http://bulletin.unl.edu/courses/HRTM/285>)

[HRTM 485 \(http://bulletin.unl.edu/courses/HRTM/485/885\)](http://bulletin.unl.edu/courses/HRTM/485/885)
 [\(http://bulletin.unl.edu/courses/HRTM/885\)](http://bulletin.unl.edu/courses/HRTM/885) requires field trips to local lodging facilities. [HRTM 485](http://bulletin.unl.edu/courses/HRTM/485)
 [\(http://bulletin.unl.edu/courses/HRTM/485\)](http://bulletin.unl.edu/courses/HRTM/485)
 [\(http://bulletin.unl.edu/courses/HRTM/885\)](http://bulletin.unl.edu/courses/HRTM/885) is 'Letter Grade only'.

Senior management techniques required to operate a lodging facility applying strategic and critical thinking with case study analysis to solve problems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HRTM

Advanced Event Operations

[LINK \(http://bulletin.unl.edu/courses/HRTM/489\)](http://bulletin.unl.edu/courses/HRTM/489)

489/889

Prereqs:
HRTM 289 (<http://bulletin.unl.edu/courses/HRTM/289>).

[HRTM 489 \(http://bulletin.unl.edu/courses/HRTM/489/889\)](http://bulletin.unl.edu/courses/HRTM/489/889)
 [\(http://bulletin.unl.edu/courses/HRTM/889\)](http://bulletin.unl.edu/courses/HRTM/889) requires field trips to local conference and meeting centers. [HRTM 489](http://bulletin.unl.edu/courses/HRTM/489)
 [\(http://bulletin.unl.edu/courses/HRTM/489/889\)](http://bulletin.unl.edu/courses/HRTM/489/889)
 [\(http://bulletin.unl.edu/courses/HRTM/889\)](http://bulletin.unl.edu/courses/HRTM/889) is 'Letter Grade only'.

The management and operation of events. Design, marketing, and promotion efforts. Identifying sponsors. Marketing to attendees, exhibitors, and other participants.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

HRTM

Hospitality Management Study Tour[LINK \(http://bulletin.unl.edu/courses/HRTM/495\)](http://bulletin.unl.edu/courses/HRTM/495)**495/895****Prereqs:**
HRTM or NUTR major.

Number of credits hours earned in *HRTM 495* (<http://bulletin.unl.edu/courses/HRTM/495/895>) is determined by tour length, assignments, and sites visited. *HRTM 495* (<http://bulletin.unl.edu/courses/HRTM/495/895>) requires off-campus travel.

Broadening perspective and developing an understanding of the hospitality industry through visits. Tours to hospitality facilities, national food and equipment shows; food processors; equipment manufacturers; and trade exchanges.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Field
Course Delivery:	Classroom

HRTM

Independent Study[LINK \(http://bulletin.unl.edu/courses/HRTM/496\)](http://bulletin.unl.edu/courses/HRTM/496)**496/896****Prereqs:**
12 hrs HRTM.

HRTM 496 (<http://bulletin.unl.edu/courses/HRTM/496/896>) requires a contract with an individual HRTM faculty member in HRTM. *HRTM 496* (<http://bulletin.unl.edu/courses/HRTM/496/896>) is 'Letter grade only'.

Individual projects in research, literature review, and/or creative activity.

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Independent Study
Course Delivery:	Classroom

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Courses for NUTR (NUTR)

ALEC

Multimedia Applications for Education and Training[LINK \(http://bulletin.unl.edu/courses/ALEC/412\)](http://bulletin.unl.edu/courses/ALEC/412)**412/812**Crosslisted as *NUTR 812*

Practical applications in developing and evaluating multimedia resources for students. Surveys new applications, creates and develops various instructional materials, and reviews current practice against relevant theory. Use current software packages to develop materials for various audiences.

Credit Hours:	3
Course Format:	Lecture, Lab
Course Delivery:	Classroom

ANTH

Nutritional Anthropology[LINK \(http://bulletin.unl.edu/courses/ANTH/430\)](http://bulletin.unl.edu/courses/ANTH/430)**430/830**Crosslisted as *NUTR 430/830***Prereqs:**
ANTH 242 (<http://bulletin.unl.edu/courses/ANTH/242>) or equivalent.

Anthropological approaches to the study of nutrition. Background to nutrition science; bio-cultural aspects of obesity, fertility, lactose intolerance, and infant feeding practices; biological differences in nutritional requirements, fertility, and mortality; interpretation of nutritional deficiencies in skeletal remains; reconstructing prehistoric diets from archaeological evidence; and evaluation of relationships between dietary patterns and dental remains in fossil record.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Biological Anthropology

ASCI

Interdepartmental Nutrition Seminar[LINK \(http://bulletin.unl.edu/courses/ASCI/921\)](http://bulletin.unl.edu/courses/ASCI/921)Crosslisted as *NUTR 921*

921

Prereqs:
Permission

Presentation and discussion of current literature and research in the field of nutrition.

Credit Hours:	1
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

ASCI
925 **Energy Metabolism**

Crosslisted as *NUTR 925*

[LINK \(http://bulletin.unl.edu/courses/ASCI/925\)](http://bulletin.unl.edu/courses/ASCI/925)

Prereqs:
[ASCI 821 \(http://bulletin.unl.edu/courses/ASCI/821\)](http://bulletin.unl.edu/courses/ASCI/821), [BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831), or [NUTR 455 \(http://bulletin.unl.edu/courses/NUTR/455\)](http://bulletin.unl.edu/courses/NUTR/455) or [950 \(http://bulletin.unl.edu/courses/NUTR/950\)](http://bulletin.unl.edu/courses/NUTR/950); or permission

Offered odd-numbered calendar years. Critically evaluate how research in bioenergetics has contributed to scientific discoveries in the fields of nutrition, biochemistry, and physiology. Methodologies for determination of human and animal energy expenditure and body composition. Specifically, direct calorimetry, indirect calorimetry and comparative slaughter techniques. Emphasis on components of organ and tissue energy expenditures. Background information important in other nutrition courses.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
926 **Carbohydrate and Lipid Nutrition**

Crosslisted as *NUTR 926*

[LINK \(http://bulletin.unl.edu/courses/ASCI/926\)](http://bulletin.unl.edu/courses/ASCI/926)

Prereqs:
[BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831), [ASCI 821 \(http://bulletin.unl.edu/courses/ASCI/821\)](http://bulletin.unl.edu/courses/ASCI/821) or [NUTR 455 \(http://bulletin.unl.edu/courses/NUTR/455\)](http://bulletin.unl.edu/courses/NUTR/455) or [950 \(http://bulletin.unl.edu/courses/NUTR/950\)](http://bulletin.unl.edu/courses/NUTR/950)

Offered even-numbered calendar years. Nutrition and metabolism of carbohydrates and lipids by animals and humans. Emphasis on fundamental principles and current concepts.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
927 **Protein and Amino Acid Nutrition**

Crosslisted as *NUTR 927*

[LINK \(http://bulletin.unl.edu/courses/ASCI/927\)](http://bulletin.unl.edu/courses/ASCI/927)

Prereqs:
[ASCI 421 \(http://bulletin.unl.edu/courses/ASCI/421\)](http://bulletin.unl.edu/courses/ASCI/421)/[821 \(http://bulletin.unl.edu/courses/ASCI/821\)](http://bulletin.unl.edu/courses/ASCI/821) or [NUTR 455 \(http://bulletin.unl.edu/courses/NUTR/455\)](http://bulletin.unl.edu/courses/NUTR/455) or [950 \(http://bulletin.unl.edu/courses/NUTR/950\)](http://bulletin.unl.edu/courses/NUTR/950); [BIOC/BIOS/CHEM 431 \(http://bulletin.unl.edu/courses/BIOC/BIOS/CHEM/431\)](http://bulletin.unl.edu/courses/BIOC/BIOS/CHEM/431)/[831 \(http://bulletin.unl.edu/courses/CHEM/831\)](http://bulletin.unl.edu/courses/CHEM/831)

Offered even-numbered calendar years. Nutrition and metabolism of proteins and amino acids by animals and humans. Fundamental principles and current concepts.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

ASCI
928 **Mineral Nutrition**

Crosslisted as *NUTR 928*

[LINK \(http://bulletin.unl.edu/courses/ASCI/928\)](http://bulletin.unl.edu/courses/ASCI/928)

Prereqs:
[ASCI 821 \(http://bulletin.unl.edu/courses/ASCI/821\)](http://bulletin.unl.edu/courses/ASCI/821) or [NUTR 455 \(http://bulletin.unl.edu/courses/NUTR/455\)](http://bulletin.unl.edu/courses/NUTR/455) or [950 \(http://bulletin.unl.edu/courses/NUTR/950\)](http://bulletin.unl.edu/courses/NUTR/950) and [BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831)

Credit Hours:	2
Course Format:	Lecture 2
Campus:	

<http://bulletin.unl.edu/courses/BIOC/831>); or permission

Course Delivery: Classroom

Offered even-numbered calendar years. Nutrition and metabolism of mineral elements by animals and humans. Information and current concepts on the metabolism of minerals and requirements for growth, finishing, maintenance, lactation, and reproduction. Interrelationships among minerals and other nutrients discussed and observed in the laboratory.

ASCI
928L Mineral Nutrition Laboratory

Crosslisted as *NUTR 928L*

[LINK \(http://bulletin.unl.edu/courses/ASCI/928L\)](http://bulletin.unl.edu/courses/ASCI/928L)

Prereqs:
Parallel ASCI/[NUTR 928](http://bulletin.unl.edu/courses/NUTR/928) (<http://bulletin.unl.edu/courses/NUTR/928>)

Laboratory experiments that complement material covered in [ASCI 928](http://bulletin.unl.edu/courses/ASCI/928) (<http://bulletin.unl.edu/courses/ASCI/928>).

Credit Hours: 1
Course Format: Lab
Campus:
Course Delivery: Classroom

ASCI
929 Vitamin Nutrition

Crosslisted as *NUTR 929*

[LINK \(http://bulletin.unl.edu/courses/ASCI/929\)](http://bulletin.unl.edu/courses/ASCI/929)

Prereqs:
[BIOC 831](http://bulletin.unl.edu/courses/BIOC/831) (<http://bulletin.unl.edu/courses/BIOC/831>), [ASCI 821](http://bulletin.unl.edu/courses/ASCI/821) (<http://bulletin.unl.edu/courses/ASCI/821>) or [NUTR 455](http://bulletin.unl.edu/courses/NUTR/455) (<http://bulletin.unl.edu/courses/NUTR/455>) or [950](http://bulletin.unl.edu/courses/NUTR/950) (<http://bulletin.unl.edu/courses/NUTR/950>)

Offered odd-numbered calendar years. History, chemistry, assay procedures, food content, metabolism, biochemical functions, deficiencies, pharmacological doses, toxicities, and factors influencing vitamin status in animals, including humans.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

ASCI
949 Biochemistry of Nutrition

Crosslisted as *BIOS 949, BIOC 949, NUTR 949*

[LINK \(http://bulletin.unl.edu/courses/ASCI/949\)](http://bulletin.unl.edu/courses/ASCI/949)

Prereqs:
[BIOC 832](http://bulletin.unl.edu/courses/BIOC/832) (<http://bulletin.unl.edu/courses/BIOC/832>) or *839, or permission

Offered odd-numbered calendar years. Interrelationships of nutrients, nutritional state and metabolic processes. Energy metabolism, integration of nutrition and metabolism and nutritional regulation of gene function.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

CYAF
891 Special Topics in Human Sciences

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMFD 891*

[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours: 1-3
Max credits per degree: 12
Campus:
Course Delivery: Classroom

CYAF
920 Teaching Practicum

Crosslisted as *NUTR 920, TMFD 920*

[LINK \(http://bulletin.unl.edu/courses/CYAF/920\)](http://bulletin.unl.edu/courses/CYAF/920)

Prereqs:
[CYAF 918](http://bulletin.unl.edu/courses/CYAF/918) (<http://bulletin.unl.edu/courses/CYAF/918>) or permission of department chair

Credit Hours: 1-3
Max credits per degree: 3
Campus:

Supervised classroom experiences designed to develop competencies in teaching at the college level.

Course Delivery: Classroom

CYAF

998

Special Topics in Human Sciences

Crosslisted as *NUTR 998, TMFD 998*

[LINK \(http://bulletin.unl.edu/courses/CYAF/998\)](http://bulletin.unl.edu/courses/CYAF/998)

Prereqs:
Permission

Credit Hours: 1-3
Max credits per degree: 6
Campus:
Course Delivery: Classroom

EDAD

855

Teaching Learners to Learn

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDAD

991

Field Studies in Education

Crosslisted as *NUTR 991, TEAC 991*

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours: 1-3
Max credits per degree: 6
Campus:
Course Delivery: Classroom

EDPS

846

Foundations of Health Behavior

Crosslisted as *NUTR 846*

[LINK \(http://bulletin.unl.edu/courses/EDPS/846\)](http://bulletin.unl.edu/courses/EDPS/846)

The epidemiological, developmental and cognitive foundation of health-related behaviors and identifies opportunities for health promotion and education.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDPS

847

Theoretical Models of Health Behavior Change

Crosslisted as *NUTR 847*

[LINK \(http://bulletin.unl.edu/courses/EDPS/847\)](http://bulletin.unl.edu/courses/EDPS/847)

Application of widely used theoretical models of health behavior change. Specification of behaviors and development and evaluation of theory-based interventions to reduce health-related risks.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDPS

905

Research and Evaluation Literature on Health Promotion

Crosslisted as *NUTR 905*

[LINK \(http://bulletin.unl.edu/courses/EDPS/905\)](http://bulletin.unl.edu/courses/EDPS/905)

Philosophical and empirical review and critique of contemporary literature on school, community, work place and health care-based health promotion and

Credit Hours: 3
Campus:

HORT
471 **Vines, Wines and You**

Crosslisted as *NUTR 471/871*

[LINK \(http://bulletin.unl.edu/courses/HORT/471\)](http://bulletin.unl.edu/courses/HORT/471)

Prereqs:
6 hrs science or equivalent experience; 21 years of age or older.

Proof of age is required.

Origin, botany, historical and cultural significance of the grapevine and related species. Principles and practices of vineyard establishment, management and processing of grape products, importance and/or scope of grape and wine industry; global and local significance. Culinary applications, health, environmental and safety-related issues, business and industry relations and experience.

Credit Hours:	3
Course Format:	Lecture, Lab
Course Delivery:	Classroom

NUTR
441/841 **Functional Properties of Food**

Crosslisted as *FDST 441/841*

[LINK \(http://bulletin.unl.edu/courses/NUTR/441\)](http://bulletin.unl.edu/courses/NUTR/441)

Prereqs:
[NUTR 224 \(http://bulletin.unl.edu/courses/NUTR/224\)](http://bulletin.unl.edu/courses/NUTR/224), [245 \(http://bulletin.unl.edu/courses/NUTR/245\)](http://bulletin.unl.edu/courses/NUTR/245), and [BIOC 321 \(http://bulletin.unl.edu/courses/BIOC/321\)](http://bulletin.unl.edu/courses/BIOC/321); or [FDST 448 \(http://bulletin.unl.edu/courses/FDST/448\)](http://bulletin.unl.edu/courses/FDST/448).

Relationship of structure and functionality of ingredients in food systems.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

NUTR
445/845 **Experimental Foods**

Crosslisted as *FDST 445/845*

[LINK \(http://bulletin.unl.edu/courses/NUTR/445\)](http://bulletin.unl.edu/courses/NUTR/445)

Prereqs:
[NUTR 244 \(http://bulletin.unl.edu/courses/NUTR/244\)](http://bulletin.unl.edu/courses/NUTR/244) and [245 \(http://bulletin.unl.edu/courses/NUTR/245\)](http://bulletin.unl.edu/courses/NUTR/245); [BIOC 321 \(http://bulletin.unl.edu/courses/BIOC/321\)](http://bulletin.unl.edu/courses/BIOC/321).

Introduction to food research. Application of research techniques to selected problems.

Credit Hours:	3
Course Format:	Lecture 1, Lab 6
Course Delivery:	Classroom

NUTR
456/856 **Clinical Exercise Physiology**

[LINK \(http://bulletin.unl.edu/courses/NUTR/456\)](http://bulletin.unl.edu/courses/NUTR/456)

Prereqs:
[BIOS 214 \(http://bulletin.unl.edu/courses/BIOS/214\)](http://bulletin.unl.edu/courses/BIOS/214); [NUTR/BIOS 484 \(http://bulletin.unl.edu/courses/BIOS/484\)/884 \(http://bulletin.unl.edu/courses/BIOS/884\)](http://bulletin.unl.edu/courses/BIOS/484); [NUTR 486 \(http://bulletin.unl.edu/courses/NUTR/486\)/886 \(http://bulletin.unl.edu/courses/NUTR/886\)](http://bulletin.unl.edu/courses/NUTR/486).

Cardiovascular, pulmonary, metabolic, pharmacologic, endocrinologic, renal, neurologic, inflammatory, and orthopedic aspects of clinical exercise physiology as they relate to exercise testing and programming.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom

NUTR
470/870 **Cost Control for Foodservice**

[LINK \(http://bulletin.unl.edu/courses/NUTR/470\)](http://bulletin.unl.edu/courses/NUTR/470)

Prereqs:
[NUTR 370 \(http://bulletin.unl.edu/courses/NUTR/370\)](http://bulletin.unl.edu/courses/NUTR/370).

Principles of cost control for foodservice. Integration of cost control and

Credit Hours:	2
Course Delivery:	Classroom

foodservice/restaurant management principles which influence financial integrity. Utilization of the computer as a tool to enhance decision making capabilities.

NUTR

473/873

Organization and Administration of Foodservice

[LINK \(http://bulletin.unl.edu/courses/NUTR/473\)](http://bulletin.unl.edu/courses/NUTR/473)

Prereqs:

[NUTR 370 \(http://bulletin.unl.edu/courses/NUTR/370\)](http://bulletin.unl.edu/courses/NUTR/370).

Organizational, administrative, and human relations concepts to foodservice. Utilization of computer applications in administration of a foodservice facility.

Credit Hours: 3

Course Delivery: Classroom

NUTR

484/884

Physiology of Exercise

Crosslisted as *BIOS 484/884*

[LINK \(http://bulletin.unl.edu/courses/NUTR/484\)](http://bulletin.unl.edu/courses/NUTR/484)

Prereqs:

12 hrs biological sciences, including [BIOS 213 \(http://bulletin.unl.edu/courses/BIOS/213\)](http://bulletin.unl.edu/courses/BIOS/213) or equivalent; [BIOS 214 \(http://bulletin.unl.edu/courses/BIOS/214\)](http://bulletin.unl.edu/courses/BIOS/214) or equivalent.

This course is a prerequisite for: [NUTR 858 \(http://bulletin.unl.edu/courses/NUTR/858\)](http://bulletin.unl.edu/courses/NUTR/858)

Effects of physical activity on the circulatory, respiratory, and other physiological processes.

Credit Hours: 3

Course Format: Lab 1, Lecture 2

Course Delivery: Classroom

NUTR

486/886

Exercise Testing and Exercise Programming in Adult Fitness and Cardiac Rehabilitation

[LINK \(http://bulletin.unl.edu/courses/NUTR/486\)](http://bulletin.unl.edu/courses/NUTR/486)

Prereqs:

[NUTR/BIOS 484 \(http://bulletin.unl.edu/courses/BIOS/484\)](http://bulletin.unl.edu/courses/BIOS/484)/[884 \(http://bulletin.unl.edu/courses/BIOS/884\)](http://bulletin.unl.edu/courses/BIOS/884); [EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)/[859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or [NUTR 330 \(http://bulletin.unl.edu/courses/NUTR/330\)](http://bulletin.unl.edu/courses/NUTR/330).

This course is a prerequisite for: [NUTR 456 \(http://bulletin.unl.edu/courses/NUTR/456\)](http://bulletin.unl.edu/courses/NUTR/456), [NUTR 880 \(http://bulletin.unl.edu/courses/NUTR/880\)](http://bulletin.unl.edu/courses/NUTR/880)

In-depth analysis and development of the techniques and knowledges prerequisite for certification in adult fitness and cardiac rehabilitation as prescribed by the American College of Sports Medicine.

Credit Hours: 4

Course Delivery: Classroom

NUTR

496/896

Independent Study

[LINK \(http://bulletin.unl.edu/courses/NUTR/496\)](http://bulletin.unl.edu/courses/NUTR/496)

Prereqs:

12 hrs in major related areas; permission.

Supervised and evaluated by departmental faculty members.

Individual projects in research, literature review, or creative production.

Credit Hours: 1-5

Course Delivery: Classroom

NUTR

803

Physiological Foundations of Health and Disease

[LINK \(http://bulletin.unl.edu/courses/NUTR/803\)](http://bulletin.unl.edu/courses/NUTR/803)

Topical review of current concepts of health and disease including homeostasis, bioenergetics, epidemiology, and the major chronic and infectious diseases.

Credit Hours: 3

Campus:

NUTR
805 **Research Methods**

[LINK \(http://bulletin.unl.edu/courses/NUTR/805\)](http://bulletin.unl.edu/courses/NUTR/805)

Prereqs:
Graduate standing

Philosophy, goals, and methodologies related to research in nutritional science. Survey and application of basic research tools.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

NUTR
810 **Transdisciplinary Obesity Prevention**

Crosslisted as *CYAF 810*

[LINK \(http://bulletin.unl.edu/courses/NUTR/810\)](http://bulletin.unl.edu/courses/NUTR/810)

Prereqs:
NUTR 455 (<http://bulletin.unl.edu/courses/NUTR/455>) or equivalent;
Graduate standing.

Using a transdisciplinary team of faculty and guest lecturers, students will be introduced to the interrelationship of obesity and dietary components, behavior, exercise and sports science, physical activity, health promotion, genetics, nutrigenomics, child development, family dynamics, cultural issues, epidemiology, population disparity, educational leadership, public policy and other related topics.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

NUTR
815 **Principles and Practice of Stress Management in Education**

[LINK \(http://bulletin.unl.edu/courses/NUTR/815\)](http://bulletin.unl.edu/courses/NUTR/815)

Conceptual understanding of stress in educational settings and stress coping strategies to enhance the learning environment. Identification of physical, emotional, cognitive and behavioral indicators; awareness of perception, appraisal and interpretation of challenges, frustrations, conflicts and competition; and an introduction to social, lifestyle and environmental change strategies together with self-regulation and behavioral management techniques.

Credit Hours: 3

Campus:

Course Delivery: Classroom

NUTR
820 **Molecular Nutrition**

[LINK \(http://bulletin.unl.edu/courses/NUTR/820\)](http://bulletin.unl.edu/courses/NUTR/820)

Prereqs:
BIOC 831 (<http://bulletin.unl.edu/courses/BIOC/831>)

Roles for nutrients in signal transduction, gene expression, intracellular trafficking and cell death.

Credit Hours: 2

Campus:

Course Delivery: Classroom

NUTR
821 **Molecular Nutrition Techniques**

[LINK \(http://bulletin.unl.edu/courses/NUTR/821\)](http://bulletin.unl.edu/courses/NUTR/821)

Prereqs:
BIOC 831 (<http://bulletin.unl.edu/courses/BIOC/831>)

NUTR 820 (<http://bulletin.unl.edu/courses/NUTR/820>) recommended. Basic techniques for molecular studies in nutritional sciences.

Credit Hours: 3

Course Format: Lab 3, Lecture 2

Campus:

Course Delivery: Classroom

NUTR
857 **Classroom and Outreach Experiences in Food and Nutrition**

[LINK \(http://bulletin.unl.edu/courses/NUTR/857\)](http://bulletin.unl.edu/courses/NUTR/857)

Supervised classroom or outreach experiences in educational or community settings.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

NUTR
858 Nutrition and Exercise

[LINK \(http://bulletin.unl.edu/courses/NUTR/858\)](http://bulletin.unl.edu/courses/NUTR/858)

Prereqs:
BIOS/NUTR 484 (<http://bulletin.unl.edu/courses/BIOS/484>)/884 (<http://bulletin.unl.edu/courses/NUTR/884>).

Synergistic effects of proper nutrition and exercise on health and physical performance. Normal nutrition provides the basis for exploring the influence of dietary components and exercise on chronic disease development.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NUTR
859 Nutrition: A Focus on Life Stages

[LINK \(http://bulletin.unl.edu/courses/NUTR/859\)](http://bulletin.unl.edu/courses/NUTR/859)

Prereqs:
3 hours undergraduate nutrition and 6 hours undergraduate natural sciences

Nutritional needs throughout the life span including pregnancy, lactation, growth and aging. Approaches to nutrition education for different ages.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NUTR
875 Applied Dietetic Practice and Concepts

[LINK \(http://bulletin.unl.edu/courses/NUTR/875\)](http://bulletin.unl.edu/courses/NUTR/875)

Prereqs:
Admission to Dietetic Internship

Scientific basis for clinical and community practice and current developments in foodservice systems in professional settings. Documenting professional development.

Credit Hours:	6
Campus:	
Course Delivery:	Classroom

NUTR
880 Introduction to Functional Electrocardiography

[LINK \(http://bulletin.unl.edu/courses/NUTR/880\)](http://bulletin.unl.edu/courses/NUTR/880)

Prereqs:
NUTR/BIOS 484 (<http://bulletin.unl.edu/courses/BIOS/484>) and NUTR 486 (<http://bulletin.unl.edu/courses/NUTR/486>)

Theory and application of electrocardiography in graded exercise testing.

Credit Hours:	3
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

NUTR
887 Theory and Assessment of Exercise and Health Behavior

[LINK \(http://bulletin.unl.edu/courses/NUTR/887\)](http://bulletin.unl.edu/courses/NUTR/887)

Reviews the current research in the psychology of exercise and health behavior. Various theoretical models of exercise and health behavior as well as ways to implement effective behavioral change strategies. Students are introduced and gain competence in administering a variety of questionnaire, psychophysiological, and behavioral research techniques.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

NUTR
Workshop

[LINK \(http://bulletin.unl.edu/courses/NUTR/890\)](http://bulletin.unl.edu/courses/NUTR/890)

890

Special topics related to foods, nutrition or food service management in depth. Food preservation, food and nutrition update, use of computer in planning food service operations.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

NUTR

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/NUTR/899\)](http://bulletin.unl.edu/courses/NUTR/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

NUTR

910**Research Methods in Childhood Obesity**Crosslisted as *CYAF 910*[LINK \(http://bulletin.unl.edu/courses/NUTR/910\)](http://bulletin.unl.edu/courses/NUTR/910)

Prereqs:
Graduate standing.

The purpose of this course is to examine the philosophy, goals, and methodologies related within the concept of childhood obesity research. The class will include study design, survey development, evaluation and application of basic research tools. In addition, students will critically evaluate different types of research in relation to childhood obesity. Class discussion will focus on the multiple factors that impact childhood obesity and potential measurement of these factors in the outcome of childhood obesity prevention.

Credit Hours:	4
Course Format:	Lecture 4
Course Delivery:	Classroom

NUTR

950**Integrated Principles of Human Nutrition**[LINK \(http://bulletin.unl.edu/courses/NUTR/950\)](http://bulletin.unl.edu/courses/NUTR/950)

Prereqs:
12 hours of biological sciences which includes biochemistry and physiology

This course is a prerequisite for: [NUTR 960 \(http://bulletin.unl.edu/courses/NUTR/960\)](http://bulletin.unl.edu/courses/NUTR/960)

Integration of concepts of nutrient metabolism with food intake recommendations.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NUTR

952**Advanced Clinical Nutrition**[LINK \(http://bulletin.unl.edu/courses/NUTR/952\)](http://bulletin.unl.edu/courses/NUTR/952)

Prereqs:
6 hrs medical nutrition therapy or clinical nutrition

Interrelationships between diet intervention and disease. Current theories.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

NUTR

954**Fundamentals of Nutrition Counseling**[LINK \(http://bulletin.unl.edu/courses/NUTR/954\)](http://bulletin.unl.edu/courses/NUTR/954)

Prereqs:
12 hours NUTR and 6 hrs social science

Theories of behavior change and application to nutrition counseling. Practice

Credit Hours:	3
Course Format:	Lecture 3
Campus:	

in development of nutrition counseling skills. Current nutrition problems and applications to diverse clients.

Course Delivery: Classroom

NUTR
956

Community Nutrition

[LINK \(http://bulletin.unl.edu/courses/NUTR/956\)](http://bulletin.unl.edu/courses/NUTR/956)

Prereqs:
NUTR 356 (<http://bulletin.unl.edu/courses/NUTR/356>) or permission

Historical perspectives, research methodology, and assessment techniques.

Credit Hours: 3

Campus:

Course Delivery: Classroom

NUTR
960

Nutrient Function During Exercise

[LINK \(http://bulletin.unl.edu/courses/NUTR/960\)](http://bulletin.unl.edu/courses/NUTR/960)

Prereqs:
NUTR 950 (<http://bulletin.unl.edu/courses/NUTR/950>) or 350 (<http://bulletin.unl.edu/courses/NUTR/350>) or 858 (<http://bulletin.unl.edu/courses/NUTR/858>), HHPG 884 (<http://bulletin.unl.edu/courses/HHPG/884>), BIOC 831 (<http://bulletin.unl.edu/courses/BIOC/831>) or equivalents of these courses

Exercise and its influence upon human nutrition via biochemical and physiological functions. Interrelationships between exercise and energy, macro- and micro-nutrients will be examined.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

NUTR
973

Organizational Administration in Food Service and Restaurant Management

[LINK \(http://bulletin.unl.edu/courses/NUTR/973\)](http://bulletin.unl.edu/courses/NUTR/973)

Prereqs:
NUTR 873 (<http://bulletin.unl.edu/courses/NUTR/873>) or permission

Investigation of foodservice/restaurant organizations and administration. Critical evaluation of current literature.

Credit Hours: 3

Campus:

Course Delivery: Classroom

NUTR
984

Advanced Exercise Physiology

[LINK \(http://bulletin.unl.edu/courses/NUTR/984\)](http://bulletin.unl.edu/courses/NUTR/984)

Prereqs:
HHPG 884 (<http://bulletin.unl.edu/courses/HHPG/884>) or equivalent

Theory and laboratory experiences focusing on physiological influences and outcomes relating to exercise performance. Areas for in-depth and critical consideration include cardiovascular and respiratory responses, growth and development effects, environmental, nutritional, and pharmacological influences, evaluative techniques, and special interest topics.

Credit Hours: 3

Campus:

Course Delivery: Classroom

NUTR
986

Graduate Seminar

[LINK \(http://bulletin.unl.edu/courses/NUTR/986\)](http://bulletin.unl.edu/courses/NUTR/986)

Prereqs:
Permission

Credit Hours: 1-2

Max credits per degree: 4

Campus:

Course Delivery: Classroom

NUTR

Advanced Human Nutrition Topics

[LINK \(http://bulletin.unl.edu/courses/NUTR/992\)](http://bulletin.unl.edu/courses/NUTR/992)

992**Prereqs:**
Permission

In-depth evaluation of current human nutrition issues.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

NUTR
994**Advanced Food Topics**[LINK \(http://bulletin.unl.edu/courses/NUTR/994\)](http://bulletin.unl.edu/courses/NUTR/994)**Prereqs:**
Permission

In-depth evaluation of food studies, culinology, and research issues.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

NUTR
995**Doctoral Colloquium**[LINK \(http://bulletin.unl.edu/courses/NUTR/995\)](http://bulletin.unl.edu/courses/NUTR/995)**Prereqs:**
Permission

Intended primarily for doctoral students, although non-doctoral students are admitted with permission. Work with a faculty mentor, either on an individualized or on a small group basis. Outcome-based scholarly activities. The interaction between research and practice.

Credit Hours:	1-6
Max credits per degree:	18
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

NUTR
996**Research Other Than Thesis**[LINK \(http://bulletin.unl.edu/courses/NUTR/996\)](http://bulletin.unl.edu/courses/NUTR/996)**Prereqs:**
Permission

Credit Hours:	1-8
Campus:	
Course Delivery:	Classroom

NUTR
999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/NUTR/999\)](http://bulletin.unl.edu/courses/NUTR/999)**Prereqs:**
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

TEAC
805**Advanced Teaching Strategies**Crosslisted as *ALEC 805, NUTR 806*[LINK \(http://bulletin.unl.edu/courses/TEAC/805\)](http://bulletin.unl.edu/courses/TEAC/805)This course is a prerequisite for: [ALEC 400 \(http://bulletin.unl.edu/courses/ALEC/400\)](http://bulletin.unl.edu/courses/ALEC/400)

Contemporary and innovative teaching strategies, emphasizing learner-

Credit Hours:	3
Course Format:	Lecture

centered instruction, suitable to teaching in college and postsecondary institutions, outreach programs public schools, and other settings. Students participate in active learning as they apply learning theory in practice, prepare and demonstrate teaching methods, and plan for instruction in discipline areas of their choice.

Campus:	
Course Delivery:	Classroom

TEAC
930 **Sociological/Anthropological Research Methods in Education** [LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)
Crosslisted as *EDPS 930, CYAF 930, NUTR 930*

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1–3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1–3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1–3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1–3 cr, max 3)
- J. Hermeneutic Traditions in Education (1–3 cr, max 3)
- K. Quantitative Research Traditions in Education (1–3 cr, max 3)

Credit Hours:	1–3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

Ω

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Nutrition). (<http://www.unl.edu/gradstudies/prospective/programs/Nutrition>)

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Nutrition). (<http://www.unl.edu/gradstudies/prospective/programs/Nutrition>)

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Philosophy

Ω

Courses for PHIL (PHIL)

PHIL
409/809 **Theory of Knowledge** [LINK \(http://bulletin.unl.edu/courses/PHIL/409\)](http://bulletin.unl.edu/courses/PHIL/409)

Intensive study of basic problems in the Theory of Knowledge: the nature of knowledge, the analysis of perception and memory, the justification of induction, the problem of how one knows other minds, and the analysis of a prior knowledge. Readings from recent work.

Credit Hours:	3
Course Delivery:	Classroom

PHIL
411/811 **Formal Logic** [LINK \(http://bulletin.unl.edu/courses/PHIL/411\)](http://bulletin.unl.edu/courses/PHIL/411)

Prereqs:
[PHIL 211 \(http://bulletin.unl.edu/courses/PHIL/211\)](http://bulletin.unl.edu/courses/PHIL/211) or equivalent.

PHIL 411 (http://bulletin.unl.edu/courses/PHIL/411) is a second course in symbolic logic.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

The main metalogical results of the twentieth century. Completeness, compactness and undecidability of first-order logic; the Löwenheim–Skolem Theorem; axiomatic set theory; the Gödel incompleteness theorems; and non-classical logics.

PHIL

Modal Logic[LINK \(http://bulletin.unl.edu/courses/PHIL/412\)](http://bulletin.unl.edu/courses/PHIL/412)**412/812****Prereqs:**

9 hrs philosophy including [PHIL 211](http://bulletin.unl.edu/courses/PHIL/211) (<http://bulletin.unl.edu/courses/PHIL/211>) or equivalent or permission.

Syntax and model theory of quantified modal logic with applications to e.g., deontic logic, epistemic logic, and the philosophy of logic.

Credit Hours:	3
Course Delivery:	Classroom

PHIL

Philosophy of Mind[LINK \(http://bulletin.unl.edu/courses/PHIL/414\)](http://bulletin.unl.edu/courses/PHIL/414)**414/814**

Main problems in the philosophy of mind, including dualism and materialism, instrumentalism and eliminativism, wide and narrow content, qualia, and mental causation.

Credit Hours:	3
Course Delivery:	Classroom

PHIL

Metaphysics[LINK \(http://bulletin.unl.edu/courses/PHIL/418\)](http://bulletin.unl.edu/courses/PHIL/418)**418/818**

Intensive study of main problems in metaphysics, especially universals and particulars, the relation of mind and matter, the categories of the real, criteria of identity, and existential propositions. Readings from recent philosophers.

Credit Hours:	3
Course Delivery:	Classroom

PHIL

Philosophy of Social Science[LINK \(http://bulletin.unl.edu/courses/PHIL/420\)](http://bulletin.unl.edu/courses/PHIL/420)**420/820**

The epistemological character of the social sciences. Character and explanatory role of social scientific generalizations, various explanatory strategies for social matters, the continuity or discontinuity of the social sciences with the special sciences, the importance of interpretation, and the place of rationality.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

PHIL

Advanced Ethics[LINK \(http://bulletin.unl.edu/courses/PHIL/423\)](http://bulletin.unl.edu/courses/PHIL/423)**423/823**

Critical study of leading theories in ethics, with close attention to major works, chiefly modern and contemporary. Includes naturalism, intuitionism, emotivism, utilitarianism, Neo-Kantian ethics, and various current positions.

Credit Hours:	3
Course Delivery:	Classroom

PHIL

Political and Social Philosophy[LINK \(http://bulletin.unl.edu/courses/PHIL/425\)](http://bulletin.unl.edu/courses/PHIL/425)**425/825**

Critical study of main problems and leading theories in social and political philosophy. Origin and justification of political obligation, with emphasis on social contract theories; the nature and foundation of individual rights and the strength of these rights when they conflict with each other and with concern for the common good; the principles of social justice and the obligation to protect the welfare of others; and the concepts of personal autonomy, liberty, equality, and freedom. Readings from a combination of historical and recent work, and emphasis on relating the various issues to current problems in society.

Credit Hours:	3
Course Delivery:	Classroom

PHIL

Ancient Philosophy[LINK \(http://bulletin.unl.edu/courses/PHIL/450\)](http://bulletin.unl.edu/courses/PHIL/450)**450/850**

Advanced survey of ancient philosophy from the pre-Socratics through Aristotle, concentrating on central epistemological and metaphysical issues.

Credit Hours:	3
Course Delivery:	Classroom

PHIL

History of Modern Philosophy[LINK \(http://bulletin.unl.edu/courses/PHIL/460\)](http://bulletin.unl.edu/courses/PHIL/460)**460/860**

Advanced survey of early European philosophy from the late renaissance through the Enlightenment, concentrating on central epistemological and metaphysical issues.

Credit Hours:	3
Course Delivery:	Classroom

PHIL

Kant[LINK \(http://bulletin.unl.edu/courses/PHIL/471\)](http://bulletin.unl.edu/courses/PHIL/471)**471/871**

Kant's philosophy and problems in the interpretation of his writings. Primary text is the First Critique.

Credit Hours:	3
Course Delivery:	Classroom

PHIL

Philosophical Themes[LINK \(http://bulletin.unl.edu/courses/PHIL/496\)](http://bulletin.unl.edu/courses/PHIL/496)**496/889**

Prereqs:
Open to graduate students and, with the consent of the instructor, to seniors and especially qualified juniors.

Library work and conferences.

Credit Hours:	1-24
Max credits per degree:	24
Course Format:	Independent Study
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

PHIL

Philosophical Analysis[LINK \(http://bulletin.unl.edu/courses/PHIL/801\)](http://bulletin.unl.edu/courses/PHIL/801)**801**

Prereqs:
Permission from philosophy graduate adviser

Seminar for beginning graduate students whose primary goal is the development of basic philosophical skills such as the analysis of primary texts, the writing of philosophical papers, and sustained oral discussion. Readings include a significant number of important works drawn from diverse areas of philosophical inquiry. Class meetings devoted primarily to student presentations of reading materials and their own written work. Effective oral discussion on the part of the student required.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PHIL

Philosophy of Language[LINK \(http://bulletin.unl.edu/courses/PHIL/805\)](http://bulletin.unl.edu/courses/PHIL/805)**805**

Critical examination of some concepts and problems involved in the philosophical study of language, e.g., truth, meaning, reference, grammaticality, speech acts, language acquisition, the relation of language to other symbol systems, and the use of language in literature.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PHIL

817**Philosophy of Science**[LINK \(http://bulletin.unl.edu/courses/PHIL/817\)](http://bulletin.unl.edu/courses/PHIL/817)

Intensive study of some main problems in the philosophy of science: explanation and prediction in the sciences, the nature of scientific laws, functional explanations in the biological and social sciences, the structure of scientific theories, the ontological status of theoretical entities, the reduction of scientific theories, the confirmation of scientific hypotheses, and value judgments in the acceptance of scientific hypotheses.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PHIL

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/PHIL/899\)](http://bulletin.unl.edu/courses/PHIL/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

PHIL

903**Philosophy of Mathematics**[LINK \(http://bulletin.unl.edu/courses/PHIL/903\)](http://bulletin.unl.edu/courses/PHIL/903)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

PHIL

905**Philosophy of Language**[LINK \(http://bulletin.unl.edu/courses/PHIL/905\)](http://bulletin.unl.edu/courses/PHIL/905)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

PHIL

911**Topics in Logic**[LINK \(http://bulletin.unl.edu/courses/PHIL/911\)](http://bulletin.unl.edu/courses/PHIL/911)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

PHIL

913**Advanced Epistemology**[LINK \(http://bulletin.unl.edu/courses/PHIL/913\)](http://bulletin.unl.edu/courses/PHIL/913)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

PHIL

914**Philosophy of Mind**[LINK \(http://bulletin.unl.edu/courses/PHIL/914\)](http://bulletin.unl.edu/courses/PHIL/914)

Credit Hours: 3

Campus:

PHIL

915**Advanced Metaphysics**[LINK \(http://bulletin.unl.edu/courses/PHIL/915\)](http://bulletin.unl.edu/courses/PHIL/915)

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

PHIL

917**Philosophy of Science**[LINK \(http://bulletin.unl.edu/courses/PHIL/917\)](http://bulletin.unl.edu/courses/PHIL/917)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

PHIL

920**Ethical Theory**[LINK \(http://bulletin.unl.edu/courses/PHIL/920\)](http://bulletin.unl.edu/courses/PHIL/920)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

PHIL

921**Aesthetics**[LINK \(http://bulletin.unl.edu/courses/PHIL/921\)](http://bulletin.unl.edu/courses/PHIL/921)

Prereqs:
Graduate standing in the humanities

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

PHIL

923**Philosophy of Psychology**[LINK \(http://bulletin.unl.edu/courses/PHIL/923\)](http://bulletin.unl.edu/courses/PHIL/923)

Credit Hours: 1-24

Campus:

Course Delivery: Classroom

PHIL

925**Social and Political Philosophy**[LINK \(http://bulletin.unl.edu/courses/PHIL/925\)](http://bulletin.unl.edu/courses/PHIL/925)

Intensive discussion of one or more of the main problems of social and political philosophy. Variable content. Possible topics are: political obligation, the concept of political authority, natural rights, the public interest, the aims of the state, and distributive justice.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

PHIL

952**Greek Philosophy**[LINK \(http://bulletin.unl.edu/courses/PHIL/952\)](http://bulletin.unl.edu/courses/PHIL/952)

Credit Hours: 1-24

Campus:
Course Delivery: Classroom

PHIL
955 Empiricism

[LINK \(http://bulletin.unl.edu/courses/PHIL/955\)](http://bulletin.unl.edu/courses/PHIL/955)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

PHIL
957 Quine

[LINK \(http://bulletin.unl.edu/courses/PHIL/957\)](http://bulletin.unl.edu/courses/PHIL/957)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

PHIL
960 Rationalism

[LINK \(http://bulletin.unl.edu/courses/PHIL/960\)](http://bulletin.unl.edu/courses/PHIL/960)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

PHIL
971 Kant

[LINK \(http://bulletin.unl.edu/courses/PHIL/971\)](http://bulletin.unl.edu/courses/PHIL/971)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

PHIL
991 Special Studies in Philosophy I

[LINK \(http://bulletin.unl.edu/courses/PHIL/991\)](http://bulletin.unl.edu/courses/PHIL/991)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

PHIL
992 Special Studies in Philosophy II

[LINK \(http://bulletin.unl.edu/courses/PHIL/992\)](http://bulletin.unl.edu/courses/PHIL/992)

Credit Hours: 1-24
Campus:
Course Delivery: Classroom

PHIL
998 Dissertation Seminar

[LINK \(http://bulletin.unl.edu/courses/PHIL/998\)](http://bulletin.unl.edu/courses/PHIL/998)

Credit Hours: 1-24

Campus:	
Course Delivery:	Classroom

PHIL
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/PHIL/999\)](http://bulletin.unl.edu/courses/PHIL/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Philosophy). (<http://www.unl.edu/gradstudies/prospective/programs/Philosophy>)

Department Chair: Joseph Mendola, Ph.D.

Graduate Committee: Professor van Roojen (chair), Henderson; Associate Professors Dowell, Gibbons

The Department of Philosophy offers graduate courses leading to the degrees of master of arts and doctor of philosophy. Facility in particular foreign languages and/or special research tools may be required by the supervisory committee when they are particularly relevant to a student's area of specialization. Students may become candidates for the masters or doctoral degree only after passing general qualifying exams. Candidates for advanced degrees are required to teach as part of their program.

Students should consult the Department of Philosophy Graduate Student Handbook for a complete statement of academic policies and student responsibilities in the Philosophy Department Graduate Program.

The seminar unit is normally represented by 3 credit hours per semester. However, in exceptional cases a student may be given permission to register for more or less than 3 hours.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Philosophy). (<http://www.unl.edu/gradstudies/prospective/programs/Philosophy>)

Retrieved from "<http://bulletin.unl.edu/graduate/Philosophy> (<http://bulletin.unl.edu/graduate/Philosophy>)"

[Back to Top \(#maincontent\)](#)

Physics and Astronomy

Subject Areas

- [Astronomy \(ASTR\) \(#ASTR\)](#)
- [Physics \(PHYS\) \(#PHYS\)](#)

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Courses for ASTR (ASTR)

ASTR
403/803

Galactic and Extragalactic Astronomy

[LINK \(http://bulletin.unl.edu/courses/ASTR/403\)](http://bulletin.unl.edu/courses/ASTR/403)

Prereqs:
[ASTR 204](http://bulletin.unl.edu/courses/ASTR/204) (<http://bulletin.unl.edu/courses/ASTR/204>) and [PHYS 213](http://bulletin.unl.edu/courses/PHYS/213) (<http://bulletin.unl.edu/courses/PHYS/213>), and permission.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Introduction to the techniques for determining constituents and dynamics of our galaxy, including interstellar matter and theories of spiral arm formation. Extragalactic topics include basic characteristics of galaxies, active galaxies, quasars, evolution, and the cosmological distance scale.

ASTR

Stellar Astrophysics[LINK \(http://bulletin.unl.edu/courses/ASTR/404\)](http://bulletin.unl.edu/courses/ASTR/404)**404/804****Prereqs:**

[ASTR 204 \(http://bulletin.unl.edu/courses/ASTR/204\)](http://bulletin.unl.edu/courses/ASTR/204); [PHYS 213 \(http://bulletin.unl.edu/courses/PHYS/213\)](http://bulletin.unl.edu/courses/PHYS/213); and permission.

Stellar atmospheres, interiors, and evolution. Theoretical and observational aspects of stellar astronomy. The relation between observed parameters and theoretical parameters, star formation, stellar energy generation, and degenerate stars.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ASTR

Physics of the Solar System[LINK \(http://bulletin.unl.edu/courses/ASTR/405\)](http://bulletin.unl.edu/courses/ASTR/405)**405/805****Prereqs:**

[ASTR 204 \(http://bulletin.unl.edu/courses/ASTR/204\)](http://bulletin.unl.edu/courses/ASTR/204); [MATH 107 \(http://bulletin.unl.edu/courses/MATH/107\)](http://bulletin.unl.edu/courses/MATH/107); [107H \(http://bulletin.unl.edu/courses/MATH/107H\)](http://bulletin.unl.edu/courses/MATH/107H); [PHYS 142 \(http://bulletin.unl.edu/courses/PHYS/142\)](http://bulletin.unl.edu/courses/PHYS/142); [142H \(http://bulletin.unl.edu/courses/PHYS/142H\)](http://bulletin.unl.edu/courses/PHYS/142H) or [212 \(http://bulletin.unl.edu/courses/PHYS/212\)](http://bulletin.unl.edu/courses/PHYS/212); [212H \(http://bulletin.unl.edu/courses/PHYS/212H\)](http://bulletin.unl.edu/courses/PHYS/212H).

Celestial mechanics; tidal effects; planetary interiors; atmospheres and surfaces; comets; asteroids; and the origin of the solar system. Applying physics to the solution of solar system problems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ASTR

Physics of the Interstellar Medium[LINK \(http://bulletin.unl.edu/courses/ASTR/407\)](http://bulletin.unl.edu/courses/ASTR/407)**407/807****Prereqs:**

[ASTR 204 \(http://bulletin.unl.edu/courses/ASTR/204\)](http://bulletin.unl.edu/courses/ASTR/204) and [PHYS 213 \(http://bulletin.unl.edu/courses/PHYS/213\)](http://bulletin.unl.edu/courses/PHYS/213).

Gaseous nebulae, interstellar dust, interstellar clouds and star forming regions. Theoretical and observational aspects of the various components of the interstellar medium. Includes the physics of emission nebulae, the properties of the interstellar dust, interstellar molecules and the properties of clouds in which star formation occurs.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ASTR

Special Topics[LINK \(http://bulletin.unl.edu/courses/ASTR/498\)](http://bulletin.unl.edu/courses/ASTR/498)**498/898****Prereqs:**

[ASTR 204 \(http://bulletin.unl.edu/courses/ASTR/204\)](http://bulletin.unl.edu/courses/ASTR/204) and permission.

Special topics not covered in other 400-level ASTR courses.

Credit Hours:	3
Max credits per degree:	9
Course Format:	Lecture 3
Course Delivery:	Classroom

ASTR

Special Topics in Astronomy[LINK \(http://bulletin.unl.edu/courses/ASTR/997\)](http://bulletin.unl.edu/courses/ASTR/997)**997****Prereqs:**

Permission

Offered as the need arises to treat special topics in astronomy not covered in other 900-level courses.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

Courses for PHYS (PHYS)

ELEC 480/880	Introduction to Lasers and Laser Applications Crosslisted as <i>PHYS 480/880</i>	LINK (http://bulletin.unl.edu/courses/ELEC/480)								
Prereqs: PHYS 213 (http://bulletin.unl.edu/courses/PHYS/213). Physics of electronic transition production stimulated emission of radiation. Threshold conditions for laser oscillation. Types of lasers and their applications in engineering.		<table border="1"> <tr> <td>Credit Hours:</td> <td>3</td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	3	Course Delivery:	Classroom				
Credit Hours:	3									
Course Delivery:	Classroom									
PHYS 401/801	Computational Physics	LINK (http://bulletin.unl.edu/courses/PHYS/401)								
Prereqs: PHYS 311 (http://bulletin.unl.edu/courses/PHYS/311) or parallel. <i>Designed to accompany PHYS 311 (http://bulletin.unl.edu/courses/PHYS/311).</i> Re-formulation of physics problems for solution on a computer, control of errors in numerical work, and programming.		<table border="1"> <tr> <td>Credit Hours:</td> <td>3</td> </tr> <tr> <td>Course Format:</td> <td>Lecture 1, Lab 3</td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	3	Course Format:	Lecture 1, Lab 3	Course Delivery:	Classroom		
Credit Hours:	3									
Course Format:	Lecture 1, Lab 3									
Course Delivery:	Classroom									
PHYS 422/822	Introduction to Physics and Chemistry of Solids Crosslisted as <i>ELEC 422/822</i>	LINK (http://bulletin.unl.edu/courses/PHYS/422)								
Prereqs: PHYS 213 (http://bulletin.unl.edu/courses/PHYS/213) or CHEM 481 (http://bulletin.unl.edu/courses/CHEM/481)/881 (http://bulletin.unl.edu/courses/CHEM/881), MATH 220 (http://bulletin.unl.edu/courses/MATH/220)/820 (http://bulletin.unl.edu/courses/MATH/820) or 221 (http://bulletin.unl.edu/courses/MATH/221)/821 (http://bulletin.unl.edu/courses/MATH/821), or permission. Introduction to structural, thermal, electrical, and magnetic properties of solids, based on concepts of atomic structure, chemical bonding in molecules, and electron states in solids. Principles underlying molecular design of materials and solid-state devices.		<table border="1"> <tr> <td>Credit Hours:</td> <td>3</td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	3	Course Delivery:	Classroom				
Credit Hours:	3									
Course Delivery:	Classroom									
PHYS 431/831	Thermal Physics	LINK (http://bulletin.unl.edu/courses/PHYS/431)								
Prereqs: PHYS 213 (http://bulletin.unl.edu/courses/PHYS/213). Thermal phenomena from the point of view of thermodynamics, kinetic theory, and statistical mechanics.		<table border="1"> <tr> <td>Credit Hours:</td> <td>3</td> </tr> <tr> <td>Course Format:</td> <td>Lecture 3</td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> </table>	Credit Hours:	3	Course Format:	Lecture 3	Course Delivery:	Classroom		
Credit Hours:	3									
Course Format:	Lecture 3									
Course Delivery:	Classroom									
PHYS 441/841	Experimental Physics I	LINK (http://bulletin.unl.edu/courses/PHYS/441)								
Prereqs: PHYS 213 (http://bulletin.unl.edu/courses/PHYS/213), 223 (http://bulletin.unl.edu/courses/PHYS/223), and 231 (http://bulletin.unl.edu/courses/PHYS/231); or permission. This course is a prerequisite for: PHYS 442 (http://bulletin.unl.edu/courses/PHYS/442)		<table border="1"> <tr> <td>Credit Hours:</td> <td>3</td> </tr> <tr> <td>Course Format:</td> <td>Lab 3, Lecture 1</td> </tr> <tr> <td>Course Delivery:</td> <td>Classroom</td> </tr> <tr> <td>ACE Outcomes:</td> <td>10[?]</td> </tr> </table>	Credit Hours:	3	Course Format:	Lab 3, Lecture 1	Course Delivery:	Classroom	ACE Outcomes:	10 [?]
Credit Hours:	3									
Course Format:	Lab 3, Lecture 1									
Course Delivery:	Classroom									
ACE Outcomes:	10 [?]									

Lab fee required.

Methods and techniques of modern experimental physics.

PHYS

Experimental Physics II

[LINK \(http://bulletin.unl.edu/courses/PHYS/442\)](http://bulletin.unl.edu/courses/PHYS/442)

442/842

Prereqs:

[PHYS 441 \(http://bulletin.unl.edu/courses/PHYS/441\)](http://bulletin.unl.edu/courses/PHYS/441)/[841 \(http://bulletin.unl.edu/courses/PHYS/841\)](http://bulletin.unl.edu/courses/PHYS/841) or permission.

This course is a prerequisite for: [PHYS 443 \(http://bulletin.unl.edu/courses/PHYS/443\)](http://bulletin.unl.edu/courses/PHYS/443)

Lab fee required.

Continuation of [PHYS 441 \(http://bulletin.unl.edu/courses/PHYS/441\)](http://bulletin.unl.edu/courses/PHYS/441)/[841 \(http://bulletin.unl.edu/courses/PHYS/841\)](http://bulletin.unl.edu/courses/PHYS/841).

Credit Hours:	3
Course Format:	Lab 3, Lecture 1
Course Delivery:	Classroom
ACE Outcomes:	10 ⁷

PHYS

Experimental Physics III

[LINK \(http://bulletin.unl.edu/courses/PHYS/443\)](http://bulletin.unl.edu/courses/PHYS/443)

443/843

Prereqs:

[PHYS 442 \(http://bulletin.unl.edu/courses/PHYS/442\)](http://bulletin.unl.edu/courses/PHYS/442)/[842 \(http://bulletin.unl.edu/courses/PHYS/842\)](http://bulletin.unl.edu/courses/PHYS/842) or permission.

Lab fee required.

Continuation of [PHYS 442 \(http://bulletin.unl.edu/courses/PHYS/442\)](http://bulletin.unl.edu/courses/PHYS/442)/[842 \(http://bulletin.unl.edu/courses/PHYS/842\)](http://bulletin.unl.edu/courses/PHYS/842).

Credit Hours:	1-3
Course Delivery:	Classroom

PHYS

Electromagnetic Theory

[LINK \(http://bulletin.unl.edu/courses/PHYS/451\)](http://bulletin.unl.edu/courses/PHYS/451)

451/851

Prereqs:

[PHYS 213 \(http://bulletin.unl.edu/courses/PHYS/213\)](http://bulletin.unl.edu/courses/PHYS/213); [MATH 220 \(http://bulletin.unl.edu/courses/MATH/220\)](http://bulletin.unl.edu/courses/MATH/220)/[820 \(http://bulletin.unl.edu/courses/MATH/820\)](http://bulletin.unl.edu/courses/MATH/820) or [221 \(http://bulletin.unl.edu/courses/MATH/221\)](http://bulletin.unl.edu/courses/MATH/221)/[821 \(http://bulletin.unl.edu/courses/MATH/821\)](http://bulletin.unl.edu/courses/MATH/821).

This course is a prerequisite for: [PHYS 452 \(http://bulletin.unl.edu/courses/PHYS/452\)](http://bulletin.unl.edu/courses/PHYS/452)

Theory of electric and magnetic fields and their interaction with charges and currents, Maxwell's equations, electric and magnetic properties of matter.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

PHYS

Optics and Electromagnetic Waves

[LINK \(http://bulletin.unl.edu/courses/PHYS/452\)](http://bulletin.unl.edu/courses/PHYS/452)

452/852

Prereqs:

[PHYS 451 \(http://bulletin.unl.edu/courses/PHYS/451\)](http://bulletin.unl.edu/courses/PHYS/451)/[851 \(http://bulletin.unl.edu/courses/PHYS/851\)](http://bulletin.unl.edu/courses/PHYS/851).

Production of electromagnetic waves, wave guides and cavities, properties of waves, plane waves, reflection and refraction, interference and coherence phenomena, polarization. Optical properties of matter.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

PHYS

Quantum Mechanics

[LINK \(http://bulletin.unl.edu/courses/PHYS/461\)](http://bulletin.unl.edu/courses/PHYS/461)

461/861

Prereqs:

[PHYS 213 \(http://bulletin.unl.edu/courses/PHYS/213\)](http://bulletin.unl.edu/courses/PHYS/213) and [311](http://bulletin.unl.edu/courses/PHYS/311)

Credit Hours:	3
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<http://bulletin.unl.edu/courses/PHYS/311>); or permission.

This course is a prerequisite for: [PHYS 462 \(http://bulletin.unl.edu/courses/PHYS/462\)](http://bulletin.unl.edu/courses/PHYS/462)

Basic concepts and formalism of quantum mechanics with applications to simple systems.

Course Format: Lecture 3

Course Delivery: Classroom

PHYS

Atoms, Nuclei, and Elementary Particles

[LINK \(http://bulletin.unl.edu/courses/PHYS/462\)](http://bulletin.unl.edu/courses/PHYS/462)

462/862

Prereqs:

[PHYS 461 \(http://bulletin.unl.edu/courses/PHYS/461\)](http://bulletin.unl.edu/courses/PHYS/461) or permission.

Basic concepts and experimental foundation for an understanding of the physics of atoms, nuclei, and elementary particles.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

PHYS

Special Topics in Physics

[LINK \(http://bulletin.unl.edu/courses/PHYS/491\)](http://bulletin.unl.edu/courses/PHYS/491)

491/891

Prereqs:

[PHYS 213 \(http://bulletin.unl.edu/courses/PHYS/213\)](http://bulletin.unl.edu/courses/PHYS/213) and permission.

Offered as need arises to treat special topics not covered in other 400/800-level physics courses.

Topics vary.

Credit Hours: 1-3

Max credits per degree: 9

Course Format: Lecture

Course Delivery: Classroom

PHYS

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/PHYS/899\)](http://bulletin.unl.edu/courses/PHYS/899)

899

Prereqs:

Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

PHYS

Classical Mechanics

[LINK \(http://bulletin.unl.edu/courses/PHYS/911\)](http://bulletin.unl.edu/courses/PHYS/911)

911

This course is a prerequisite for: [PHYS 912 \(http://bulletin.unl.edu/courses/PHYS/912\)](http://bulletin.unl.edu/courses/PHYS/912),

[PHYS 928 \(http://bulletin.unl.edu/courses/PHYS/928\)](http://bulletin.unl.edu/courses/PHYS/928)

Lagrangian and Hamiltonian formulations of the laws of motion; variational principles; dynamics of rigid bodies; other advanced topics.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PHYS

Statistical Physics

[LINK \(http://bulletin.unl.edu/courses/PHYS/912\)](http://bulletin.unl.edu/courses/PHYS/912)

912

Prereqs:

or parallel: [PHYS 911 \(http://bulletin.unl.edu/courses/PHYS/911\)](http://bulletin.unl.edu/courses/PHYS/911) and [916 \(http://bulletin.unl.edu/courses/PHYS/916\)](http://bulletin.unl.edu/courses/PHYS/916), or permission

This course is a prerequisite for: [PHYS 927 \(http://bulletin.unl.edu/courses/PHYS/927\)](http://bulletin.unl.edu/courses/PHYS/927)

The laws of thermodynamics and thermodynamic functions; ensembles; Boltzmann, Fermi-Dirac, and Bose-Einstein statistics; kinetic theory and transport phenomena. Application to macroscopic systems.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PHYS

Electromagnetic Theory I

[LINK \(http://bulletin.unl.edu/courses/PHYS/913\)](http://bulletin.unl.edu/courses/PHYS/913)

913

This course is a prerequisite for: [PHYS 914 \(http://bulletin.unl.edu/courses/PHYS/914\)](http://bulletin.unl.edu/courses/PHYS/914),
[PHYS 918 \(http://bulletin.unl.edu/courses/PHYS/918\)](http://bulletin.unl.edu/courses/PHYS/918)

Electrostatics, magnetostatics, and Maxwell's equations; solutions to boundary value problems and Green's functions; electromagnetic radiation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PHYS

914**Electromagnetic Theory II**[LINK \(http://bulletin.unl.edu/courses/PHYS/914\)](http://bulletin.unl.edu/courses/PHYS/914)

Prereqs:
[PHYS 913 \(http://bulletin.unl.edu/courses/PHYS/913\)](http://bulletin.unl.edu/courses/PHYS/913) or permission

Special relativity and covariant formulation of electrodynamics; kinematics and dynamics of charged particles; radiation from moving charges; multipole radiation fields.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PHYS

916**Quantum Mechanics I**[LINK \(http://bulletin.unl.edu/courses/PHYS/916\)](http://bulletin.unl.edu/courses/PHYS/916)

Prereqs:
Permission

This course is a prerequisite for: [PHYS 917 \(http://bulletin.unl.edu/courses/PHYS/917\)](http://bulletin.unl.edu/courses/PHYS/917),
[PHYS 925 \(http://bulletin.unl.edu/courses/PHYS/925\)](http://bulletin.unl.edu/courses/PHYS/925)

Introduction to the formalism of quantum mechanics; applications to elementary systems; angular momentum; scattering theory.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PHYS

917**Quantum Mechanics II**[LINK \(http://bulletin.unl.edu/courses/PHYS/917\)](http://bulletin.unl.edu/courses/PHYS/917)

Prereqs:
[PHYS 916 \(http://bulletin.unl.edu/courses/PHYS/916\)](http://bulletin.unl.edu/courses/PHYS/916) or permission

This course is a prerequisite for: [PHYS 926 \(http://bulletin.unl.edu/courses/PHYS/926\)](http://bulletin.unl.edu/courses/PHYS/926)

Hilbert-space formulation of quantum mechanics; stationary and time-dependent perturbation theory; variational methods; spin; many-particle systems and identical particles.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PHYS

918**Quantum Mechanics III**[LINK \(http://bulletin.unl.edu/courses/PHYS/918\)](http://bulletin.unl.edu/courses/PHYS/918)

Prereqs:
[PHYS 913 \(http://bulletin.unl.edu/courses/PHYS/913\)](http://bulletin.unl.edu/courses/PHYS/913) and [917 \(http://bulletin.unl.edu/courses/PHYS/917\)](http://bulletin.unl.edu/courses/PHYS/917), or permission

Introduction to relativistic electron theory; formal scattering theory; semi-classical radiation theory; second quantization and application to many-particle systems, elements of quantum electrodynamics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PHYS

925**Introduction to Atomic and Molecular Physics**[LINK \(http://bulletin.unl.edu/courses/PHYS/925\)](http://bulletin.unl.edu/courses/PHYS/925)

Prereqs:
[PHYS 916 \(http://bulletin.unl.edu/courses/PHYS/916\)](http://bulletin.unl.edu/courses/PHYS/916) or permission

Credit Hours:	3
Campus:	

Selected topics in atomic and molecular physics with emphasis on experimentally observed phenomena, including atomic and molecular spectra and scattering phenomena, and molecular structure.

Course Delivery: Classroom

PHYS
926

Introduction to Nuclear and Elementary-Particle Physics

[LINK \(http://bulletin.unl.edu/courses/PHYS/926\)](http://bulletin.unl.edu/courses/PHYS/926)

Prereqs:
[PHYS 917 \(http://bulletin.unl.edu/courses/PHYS/917\)](http://bulletin.unl.edu/courses/PHYS/917) or permission

Selected topics in nuclear and elementary particle physics with emphasis on experimentally observed phenomena, including nuclear forces, energy levels, nuclear models, decay of unstable nuclei, fundamental interactions and classification schemes.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PHYS
927

Introduction to Solid-State Physics

[LINK \(http://bulletin.unl.edu/courses/PHYS/927\)](http://bulletin.unl.edu/courses/PHYS/927)

Prereqs:
[PHYS 912 \(http://bulletin.unl.edu/courses/PHYS/912\)](http://bulletin.unl.edu/courses/PHYS/912) and [916 \(http://bulletin.unl.edu/courses/PHYS/916\)](http://bulletin.unl.edu/courses/PHYS/916), or permission

Selected topics in solid-state physics with emphasis on experimentally observed phenomena, including the structure and thermal, electric, magnetic, and elastic properties of metals, semiconductors, and insulators.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PHYS
928

Introduction to Plasma Physics

[LINK \(http://bulletin.unl.edu/courses/PHYS/928\)](http://bulletin.unl.edu/courses/PHYS/928)

Prereqs:
[PHYS 911 \(http://bulletin.unl.edu/courses/PHYS/911\)](http://bulletin.unl.edu/courses/PHYS/911), [913 \(http://bulletin.unl.edu/courses/PHYS/913\)](http://bulletin.unl.edu/courses/PHYS/913), and [914 \(http://bulletin.unl.edu/courses/PHYS/914\)](http://bulletin.unl.edu/courses/PHYS/914)

Fundamentals of plasma physics. Motion of charged particles, basic plasma models, waves in plasmas, laser-plasma interactions. Applications such as magnetic and inertial confinement fusion, astrophysics, plasma-based accelerators, advanced light sources, and semiconductor materials processing.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

PHYS
951

Advanced Topics in Solid-State Physics

[LINK \(http://bulletin.unl.edu/courses/PHYS/951\)](http://bulletin.unl.edu/courses/PHYS/951)

Prereqs:
Advanced graduate standing and permission

Credit Hours: 3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

PHYS
955

Advanced Topics in Atomic Physics

[LINK \(http://bulletin.unl.edu/courses/PHYS/955\)](http://bulletin.unl.edu/courses/PHYS/955)

Prereqs:
Permission

Credit Hours: 3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

PHYS

99

Seminar, Colloquium, and Research Conference[LINK \(http://bulletin.unl.edu/courses/PHYS/99\)](http://bulletin.unl.edu/courses/PHYS/99)**Prereqs:**
Graduate standing*PHYS 099 (http://bulletin.unl.edu/courses/PHYS/99) is Pass/No Pass only.*

Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

PHYS

996

Research Other Than Thesis[LINK \(http://bulletin.unl.edu/courses/PHYS/996\)](http://bulletin.unl.edu/courses/PHYS/996)

Supervised nonthesis research and independent study.

Credit Hours:	1-6
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

PHYS

998

Special Topics in Physics[LINK \(http://bulletin.unl.edu/courses/PHYS/998\)](http://bulletin.unl.edu/courses/PHYS/998)**Prereqs:**
Permission

Offered as the need arises to treat special topics not covered in other 900-level courses.

Credit Hours:	1-3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

PHYS

999

Doctoral Dissertation[LINK \(http://bulletin.unl.edu/courses/PHYS/999\)](http://bulletin.unl.edu/courses/PHYS/999)**Prereqs:**
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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DescriptionFor a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/PhysicsAndAstronomy). (<http://www.unl.edu/gradstudies/prospective/programs/PhysicsAndAstronomy>)**Department Chair:** Daniel R. Claes, Ph.D.**Vice Chair:** Stephen Ducharme, Ph.D.**Graduate Committee:** Associate Professor Uiterwaal (Chair), Professors Fabrikant, Gay, Liou; Associate Professor Tsybal

The Department of Physics and Astronomy offers the master of science and doctor of philosophy degrees.

MS Degree Program

In addition to the masters degree requirements outlined earlier in this Bulletin, a candidate for the MS degree must satisfactorily complete the following courses:

- PHYS 911. Classical Mechanics
- PHYS 913. Electromagnetic Theory I
- PHYS 916. Quantum Mechanics I
- PHYS 998. Special Topics in Current Research
- MATH 842. Methods of Applied Mathematics I

plus one of the following courses:

- PHYS 912. Statistical Physics

- PHYS 914. Electromagnetic Theory II

The Graduate Committee will determine the form of the Comprehensive Examination, which is required of all MS degree candidates. The Committee has the option of giving an oral examination, a written examination, or both. Ordinarily the first session of the Advanced Qualifying Exam (see below) will be used as the Comprehensive Exam. For a student selecting Option I (thesis) the Graduate Committee may give an oral Comprehensive Examination on the thesis research and on the graduate courses taken as part of the degree requirements.

PhD Degree Program

The required courses for every student seeking a PhD degree are:

- PHYS 911. Classical Mechanics
- PHYS 912. Statistical Physics
- PHYS 913. Electromagnetic Theory I
- PHYS 914. Electromagnetic Theory II
- PHYS 916. Quantum Mechanics I
- PHYS 917. Quantum Mechanics II
- PHYS 918. Quantum Mechanics III
- PHYS 998. Special Topics in Current Research
- MATH 842. Methods of Applied Mathematics I

plus at least one additional mathematics course, chosen in consultation with an adviser, from the following list:

- MATH 814. Applied Linear Algebra (Matrix Theory)
- MATH 822. Advanced Calculus
- MATH 823. Intro to Complex Variable Theory
- MATH 824. Intro to Partial Differential Equations
- MATH 827. Mathematical Physics
- MATH 843. Methods of Applied Mathematics II
- STAT 880. Intro to Mathematical Statistics
- MATH 935/936. Advanced Methods of Applied Mathematics

plus at least three of the following courses:

- PHYS 925. Intro to Atomic & Molecular Physics
- PHYS 926. Intro to Elementary Particle & Nuclear Physics
- PHYS 927. Intro to Solid State Physics
- PHYS 928. Intro to Plasma Physics

Students with little, or no, laboratory experience as undergraduates are urged to take PHYS 231. Normally 911, 913, 914, 916, and 917 will be offered once each year, and Statistical Physics, Quantum Mechanics III, and the introductory courses will be offered at least once every two years.

Soon after a student has taken the Advanced Qualifying Exam (see below), the entire departmental faculty will meet to decide whether the student is qualified to begin dissertation research. This decision is to be based on all information available, including the student's performance on the Advanced Qualifying Exam, in courses, in research projects, etc. If the faculty decides that the student is qualified to begin dissertation research, the Graduate Committee will recommend to the Dean of Graduate Studies that a supervisory committee be formed for the student.

A written comprehensive examination is required. This examination is administered by the student's Supervisory Committee and will normally have the form of a written report based on approximately one week of intensive research on a subject approved by the Supervisory Committee.

Advanced Qualifying Examination

The purpose of the Advanced Qualifying Examination is to test the student's understanding of physics at the graduate level. The exam comprises both written and oral parts. The written part is given in three sessions lasting a minimum of three hours each. The oral part is given in one session of about one hour.

The first session of the Advanced Qualifying covers mechanics, thermodynamics, electricity and magnetism, optics, elementary quantum mechanics, and experimental physics. Students who take only the first session of the Exam and who later wish to enter the PhD program must take the entire Advanced Qualifying Exam at one time, including the first session.

The Advanced Qualifying Exam will normally be given at the beginning of each spring semester. At the beginning of the prior fall semester the Graduate Committee will review the academic progress of all students who have not yet formed a supervisory committee and, after consulting with the students, will specify which students must take the exam. Usually, a student will take the Advanced Qualifying Exam after his or her third semester as a graduate student. Students may not withdraw from the examination without the permission of the Graduate Committee.

NOTE: All beginning graduate students must take PHYS 998 Special Topics in Current Research. This is a 1-credit course introducing students to the research activities in the department.

Although the Physics and Astronomy Department has no general foreign language requirement, individual supervisory committees may include a language (or research tool requirement) in the student's program if they feel it is appropriate.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/PhysicsAndAstronomy).
(<http://www.unl.edu/gradstudies/prospective/programs/PhysicsAndAstronomy>)

Retrieved from "http://bulletin.unl.edu/graduate/Physics_and_Astronomy (http://bulletin.unl.edu/graduate/Physics_and_Astronomy)"
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Plant Pathology

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Courses for PLPT (PLPT)

PLPT

813

Biological Control of Pests

Crosslisted as *ENTO 813*

[LINK \(http://bulletin.unl.edu/courses/PLPT/813\)](http://bulletin.unl.edu/courses/PLPT/813)

Prereqs:

12 hrs biological sciences and/or agricultural sciences

ENTO/PLPT 813 (<http://bulletin.unl.edu/courses/PLPT/813>) is offered spring semester of even-numbered calendar years. *ENTO/PLPT 813* (<http://bulletin.unl.edu/courses/PLPT/813>) is also offered on the Internet via the World Wide Web (WWW) in the spring semester of even-numbered calendar years.

Principles and practices of using natural enemies and antagonists to manage the abundance of pests and reduce economic losses.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

PLPT

867

Plant Associated Microbes

[LINK \(http://bulletin.unl.edu/courses/PLPT/867\)](http://bulletin.unl.edu/courses/PLPT/867)

Prereqs:

A course in general microbiology, bacteriology, or mycology. A course in general plant pathology is highly recommended.

*PLPT *867* is offered in odd-numbered calendar years.

Biology, ecology, and taxonomy of bacteria and fungi pathogenic or beneficial to plants. Microorganism isolation from plants and soil. Identification and plant inoculation.

Credit Hours: 4

Course Format: Lab 3, Lecture 3

Campus:

Course Delivery: Classroom

TLMT

414/814

Turfgrass Disease Management

Crosslisted as *HORT 414/814*, *PLPT 414/814*, *AGRO 414/814*

[LINK \(http://bulletin.unl.edu/courses/TLMT/414\)](http://bulletin.unl.edu/courses/TLMT/414)

Prereqs:

BIOS/PLPT 369 (<http://bulletin.unl.edu/courses/PLPT/369>) or one semester of introductory plant pathology.

Pathogens, epidemiology, and control of diseases specific to turfgrass.

Credit Hours: 1

Course Format: Lecture 1

Course Delivery: Classroom

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Description

For a brief description of the Plant Pathology Specialization, application requirements and contact information, view the view the [Plant Pathology Department's Website](http://plantpathology.unl.edu) (<http://plantpathology.unl.edu>).

Head: Professor James R. Steadman, Ph.D.

Through the School of Biological Sciences and the Department of Agronomy and Horticulture, the Plant Pathology Department offers graduate programs leading to the master of science and doctor of philosophy degrees with a major in biological sciences or agronomy and a specialization in plant pathology. Located on East Campus, at the Beadle Center, and the Panhandle and West Central Research and Extension Centers, plant pathology offers the advantages of an excellent, energetic faculty with diverse research interests in an interactive department environment.

State-of-the-art facilities support research programs in such areas as molecular plant pathology, fungal molecular genetics, phytobacteriology, nematology, virology, epidemiology, biocontrol, disease resistance, and plant diseases, especially of food and fiber crops, as well as range and urban grasses. Opportunities also exist for interdisciplinary programs in biotechnology, plant breeding, microclimatology, plant stress biology, pest management, and international agriculture.

Please refer to "Biological Sciences" and "Agronomy and Horticulture" for degree requirements. Thesis and dissertation research normally is performed under the supervision of plant pathology graduate faculty.

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Faculty

Political Science

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Courses for POLS (POLS)

AECN 818	Taxation–Farm and Ranch Crosslisted as <i>POLS 818</i>	LINK (http://bulletin.unl.edu/courses/AECN/818)
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Prereqs:
[ACCT 812 \(http://bulletin.unl.edu/courses/ACCT/812\)](http://bulletin.unl.edu/courses/ACCT/812) or [LAW 637G \(http://bulletin.unl.edu/courses/LAW/637G\)](http://bulletin.unl.edu/courses/LAW/637G).

Selection of substantial income tax problems affecting farms and ranches.

Credit Hours:	1–4
Campus:	
Course Delivery:	Classroom

AGRO 475/875	Water Quality Strategy Crosslisted as <i>POLS 475/875, SOCI 475/875, GEOL 475/875, CIVE 475/875, SOIL 475, NRES 475/875, WATS 475, MSYM 475/875, CRPL 475/875</i>	LINK (http://bulletin.unl.edu/courses/AGRO/475)
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Prereqs:
Senior standing or permission.

Capstone course.

Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating present strategies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10?

ANTH 478/878	Pro–seminar in Latin American Studies Crosslisted as <i>HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878</i>	LINK (http://bulletin.unl.edu/courses/ANTH/478)
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Prereqs:
Junior standing and permission.

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Credit Hours:	3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

POLS 410/810	The Administrative Process	LINK (http://bulletin.unl.edu/courses/POLS/410)
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Interdisciplinary examination of the internal dynamics of public and private organizations.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Public Administration and Policy

POLS 414/814	Intergovernmental Relations	LINK (http://bulletin.unl.edu/courses/POLS/414)
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Analysis of the nature and problems of the American federal system, with emphasis on the politics and administration of federal grants; problems in national–state and national–local governmental coordination in administration.

Credit Hours: 3

Course Delivery: Classroom

Groups: American Government, Politics and Law

POLS **Policy and Program Evaluation Research**

417/817

Crosslisted as *SOCI 468/868*

[LINK \(http://bulletin.unl.edu/courses/POLS/417\)](http://bulletin.unl.edu/courses/POLS/417)

Prereqs:
6 hrs social sciences.

Techniques useful for research aiding in policy making and for assessing the impact of policy. Acquaints student with the role of research in policy formation and evaluation and to give the student experience in conducting such research.

Credit Hours: 3

Course Delivery: Classroom

Groups: Public Administration and Policy

POLS **Congress and Public Policy**

425/825

[LINK \(http://bulletin.unl.edu/courses/POLS/425\)](http://bulletin.unl.edu/courses/POLS/425)

The policy making role of the Congress including the institutionalization of the House and the Senate, an analysis of congressional behavior, the committee process, and the policy responsiveness of Congress.

Credit Hours: 3

Course Delivery: Classroom

Groups: American Government, Politics and Law

POLS **Topics in American Public Policy**

426/826

[LINK \(http://bulletin.unl.edu/courses/POLS/426\)](http://bulletin.unl.edu/courses/POLS/426)

This course may be repeated up to 6 credit hours. Students should check the semester schedule for current offerings.

A significant public policy in American politics. Topics: science, technology, and public policy; or health politics.

Credit Hours: 3

Course Delivery: Classroom

Groups: American Government, Politics and Law

POLS **Political Communication**

430/830

Crosslisted as *COMM 430/830*

[LINK \(http://bulletin.unl.edu/courses/POLS/430\)](http://bulletin.unl.edu/courses/POLS/430)

Prereqs:
12 hrs communication studies, including [COMM 130](http://bulletin.unl.edu/courses/COMM/130) (<http://bulletin.unl.edu/courses/COMM/130>) or permission.

Role of communication in the political process, with emphasis on communication strategies in political campaigns. Includes communication variables important in the political process, an application of communication theory and principles to political rhetoric, and analysis and criticism of selected political communication events.

Credit Hours: 3

Course Delivery: Classroom

Groups: American Government, Politics and Law

POLS **Constitutional Law**

441/841

[LINK \(http://bulletin.unl.edu/courses/POLS/441\)](http://bulletin.unl.edu/courses/POLS/441)

Supreme Court doctrine determining the distribution of powers within the national government and between the national government and the state governments.

Credit Hours: 3

Course Delivery: Classroom

Groups: American Government,

POLS

Civil Liberties: Freedom of Expression and Conviction[LINK \(http://bulletin.unl.edu/courses/POLS/442\)](http://bulletin.unl.edu/courses/POLS/442)**442/842**

Supreme Court doctrine interpreting the First Amendment, covering freedom of speech, assembly, and association; freedom of the press; and freedom of religion.

Credit Hours: 3**Course Delivery:** Classroom**Groups:** American Government, Politics and Law

POLS

Civil Liberties: Issues of Fairness and Equality[LINK \(http://bulletin.unl.edu/courses/POLS/443\)](http://bulletin.unl.edu/courses/POLS/443)**443/843**

Supreme Court doctrine covering the rights of the accused, the right to privacy and the right to racial and sexual equality.

Credit Hours: 3**Course Delivery:** Classroom**Groups:** American Government, Politics and Law

POLS

International Political Economy[LINK \(http://bulletin.unl.edu/courses/POLS/459\)](http://bulletin.unl.edu/courses/POLS/459)**459/859**

Interface of politics and economics in the international arena. Political dimension of international economic issues emphasized. Includes: liberal, mercantile, and radical approaches; theories of imperialism; dependency and interdependency; distribution of the global product; the global division of labor; the political aspects of markets; the politics of trade, aid, investment, multinational corporations, food, and energy.

Credit Hours: 3**Course Delivery:** Classroom**Groups:** International Relations

POLS

Security in the Post-Cold War Era[LINK \(http://bulletin.unl.edu/courses/POLS/462\)](http://bulletin.unl.edu/courses/POLS/462)**462/862**

Emerging trends in security studies. The claim or hope that military force is no longer important in the post-Cold War era. The continued utility and effectiveness of war as evidenced throughout the world. New threats, environmental problems, population growth, and non-governmental organizations, as threats to the international system.

Credit Hours: 3**Course Delivery:** Classroom**Groups:** International Relations

POLS

American Foreign Policy and the Use of the Military[LINK \(http://bulletin.unl.edu/courses/POLS/463\)](http://bulletin.unl.edu/courses/POLS/463)**463/463X/863**

Military action as an instrument of American foreign policy. Constitutional basis of the president's and Congress's war powers; assessments of the role of the White House, Congress, CIA, senior pentagon officials, the American public, and military alliances – NATO and coalitions of the willing – in supporting and directing the use of military action abroad; and the political and strategic consequences of various American applications of military force.

Credit Hours: 3**Max credits per degree:** 3**Course Format:** Lecture 3**Course Delivery:** Classroom, Web**Groups:** Foreign and Comparative Government

POLS

Political Economy of the Asia-Pacific

464/864

International relations of the Asia-Pacific. Security, economics, and interaction between China, Japan, the United States, and other regional powers.

[LINK \(http://bulletin.unl.edu/courses/POLS/464\)](http://bulletin.unl.edu/courses/POLS/464)

Credit Hours:	3
Course Delivery:	Classroom
Groups:	International Relations

POLS

466/866

Pro-seminar in International Relations I

Crosslisted as HIST 479/879, SOCI 466/866, ANTH 479/879, GEOG 448/848, ECON 466/866, AECN 467

[LINK \(http://bulletin.unl.edu/courses/POLS/466\)](http://bulletin.unl.edu/courses/POLS/466)

Prereqs:
Senior standing and permission.

Open to students with an interest in international relations.

Topic varies

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	International Relations

POLS

467/867

Pro-seminar in International Relations II

Crosslisted as ECON 467/867

[LINK \(http://bulletin.unl.edu/courses/POLS/467\)](http://bulletin.unl.edu/courses/POLS/467)

Prereqs:
Senior standing and permission.

Open to students with an interest in international relations.

Topics vary.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	International Relations

POLS

468/868

Organizing World Order

POLS 468 (<http://bulletin.unl.edu/courses/POLS/468>)/868 (<http://bulletin.unl.edu/courses/POLS/868>) may be repeated once for credit if content changes.

Structures and forces relevant to creation of order in world politics. Contents may vary according to semester and instructor. Topics: trends within the United Nations system; transnational economic integration; patterns in arms control and disarmament; prospects for a United States of Europe; human rights and international violence; the United States' response to terrorism and guerrilla warfare; the management of conflict; economic development and world order.

[LINK \(http://bulletin.unl.edu/courses/POLS/468\)](http://bulletin.unl.edu/courses/POLS/468)

Credit Hours:	3-6
Course Delivery:	Classroom
Groups:	International Relations

POLS

469/869

International Law

Rules and principles accepted by the members of the community of nations as defining their rights and duties, and the procedure employed in protecting their rights and performing their duties.

[LINK \(http://bulletin.unl.edu/courses/POLS/469\)](http://bulletin.unl.edu/courses/POLS/469)

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	International Relations

POLS

470/870

International Human Rights

Development of international norms on human rights and attempts to

[LINK \(http://bulletin.unl.edu/courses/POLS/470\)](http://bulletin.unl.edu/courses/POLS/470)

Credit Hours:	3
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implement those standards. Emphasis on political process, with attention to law, philosophy, economics, and culture. Coverage of the United Nations, regional organizations, private agencies, and national foreign policies.

Course Delivery: Classroom

Groups: International Relations

POLS

Comparative Public Policy: A Cross-National Approach

[LINK \(http://bulletin.unl.edu/courses/POLS/471\)](http://bulletin.unl.edu/courses/POLS/471)

471/871

Various approaches to public policy outside the United States with emphasis on Western industrial societies. Includes policy formation and the various factors that influence policy outputs, the relationship between policy outputs and policy outcomes, efforts to classify and evaluate various types of policy outputs, and the influence of policy on politics.

Credit Hours: 3

Course Delivery: Classroom

Groups: Foreign and Comparative Government

POLS

State Terror

[LINK \(http://bulletin.unl.edu/courses/POLS/472\)](http://bulletin.unl.edu/courses/POLS/472)

472/872

Prereqs:
Permission.

Use of terror as an instrument of state policy. A series of case studies of large scale politically based killings. Why and which states use terror and politicize against their own citizens.

Credit Hours: 3

Course Delivery: Classroom

Groups: Foreign and Comparative Government

POLS

Problems in International Law and Organization

[LINK \(http://bulletin.unl.edu/courses/POLS/473\)](http://bulletin.unl.edu/courses/POLS/473)

473/873

Prereqs:
POLS 361 (<http://bulletin.unl.edu/courses/POLS/361>) or 469 (<http://bulletin.unl.edu/courses/POLS/469>) highly recommended.

Selected issues in international law and organization. Content varies. Includes: US Senate's treatment of treaties, use of customary law by US courts, current cases before the World Court, leading legal issues handled by the UN Security Council and General Assembly, etc.

Credit Hours: 3

Course Delivery: Classroom

Groups: International Relations

POLS

Comparative Institutions

[LINK \(http://bulletin.unl.edu/courses/POLS/474\)](http://bulletin.unl.edu/courses/POLS/474)

474/874

Formal and informal institutions such as constitutions, electoral rules, property rights, and civil rights. How and why people in different groups, countries, and cultures construct institutions to facilitate collective action. Whether different groups construct distinctly different institutions to deal with similar problems and why similar institutions seem to work differently in distinct societies.

Credit Hours: 3

Course Delivery: Classroom

Groups: Foreign and Comparative Government

POLS

Ethnic Conflict and Identity

[LINK \(http://bulletin.unl.edu/courses/POLS/476\)](http://bulletin.unl.edu/courses/POLS/476)

476/876

Crosslisted as *JUDS 476*

Theories of nationalism and ethnic conflict. Case studies of Europe, the Middle East, and Africa. The post-Cold War era as multi-polar and multi-civilizational. The states and different cultures that compete for influence and authority to dominate the "New World order." The division of the world along ethnic, religious, and class lines rather than by ideology. The future of international politics and the reassessment of the causes of "conflicts of culture" and their containment.

Credit Hours: 3

Course Delivery: Classroom

Groups: Foreign and Comparative Government

POLS

477/877**Israel and the Middle East**Crosslisted as *JUDS 477*[LINK \(http://bulletin.unl.edu/courses/POLS/477\)](http://bulletin.unl.edu/courses/POLS/477)

Israeli politics, society, and relations with its neighbors, particularly the Palestinians. Rise of Zionism and the Palestinian response to it; wars between Israel and Arab neighbors, and the eventual peace agreements between the two; the internal dynamics of Israeli political life; and state of Zionism today.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Foreign and Comparative Government

POLS

481/881**Political Behavior**[LINK \(http://bulletin.unl.edu/courses/POLS/481\)](http://bulletin.unl.edu/courses/POLS/481)

Various theories of political behavior at the individual level. The usefulness of these theories in explaining individual political behavior.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	American Government, Politics and Law

POLS

498/898**Special Topics**[LINK \(http://bulletin.unl.edu/courses/POLS/498\)](http://bulletin.unl.edu/courses/POLS/498)

Credit Hours:	3
Max credits per semester:	24
Course Delivery:	Classroom
Groups:	Other, Theses, and Dissertations

POLS

800**Research Methods**Crosslisted as *SRAM 800*[LINK \(http://bulletin.unl.edu/courses/POLS/800\)](http://bulletin.unl.edu/courses/POLS/800)

Basic techniques used in quantitative political science research. The general linear model. Basic probability theory, ordinary least squares regression, and how to solve problems often encountered when conducting quantitative analyses in political science.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

801**Scope and Methods of Political Science**[LINK \(http://bulletin.unl.edu/courses/POLS/801\)](http://bulletin.unl.edu/courses/POLS/801)

The character of political science as a form of inquiry—what it seeks to know it and how it seeks to know it. The discipline of political science as a science; the meaning of concepts, generalizations, laws, theories and explanations; and concept formation and theory building as embodied in major studies of politics. Alternative understandings of the character and possibility of a science of politics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

802**Professional Development in Political Science**[LINK \(http://bulletin.unl.edu/courses/POLS/802\)](http://bulletin.unl.edu/courses/POLS/802)

Prereqs:
Permission

Professional development topics, teaching methods, grant writing and article writing.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

820**Core Seminar in American Government**[LINK \(http://bulletin.unl.edu/courses/POLS/820\)](http://bulletin.unl.edu/courses/POLS/820)

Literature in American governmental institutions, processes, policies, and law. Students required to do extensive reading in these areas. Introduces the beginning graduate student to the field of American government.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

831**Core Seminar in Public Policy and Process**[LINK \(http://bulletin.unl.edu/courses/POLS/831\)](http://bulletin.unl.edu/courses/POLS/831)

Intended for graduate students interested in a review of the field.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

836**Public Policy Analysis: Methods and Models**[LINK \(http://bulletin.unl.edu/courses/POLS/836\)](http://bulletin.unl.edu/courses/POLS/836)

Qualitative and quantitative approaches to public policy analysis. Nature of politics and policy, formation of public policy, analysis of policy content, methodological triangulation, participatory policy making designs, and the role of the analyst. Construct and implement a multi-method policy analysis for a local community agency.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

850**Core Seminar in Biology and Politics**[LINK \(http://bulletin.unl.edu/courses/POLS/850\)](http://bulletin.unl.edu/courses/POLS/850)

Introduction to the relationship between the fields of biology and politics. The political implication of genetics, physiology, neuro-imaging, and evolutionary psychology.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

POLS

860**Core Seminar in International Politics**[LINK \(http://bulletin.unl.edu/courses/POLS/860\)](http://bulletin.unl.edu/courses/POLS/860)

Extensive reading required. Rigorous survey of the literature in international relations, including international law and international organization. Intended to introduce the beginning graduate student to the field of international relations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

879**Core Seminar in Comparative Politics**[LINK \(http://bulletin.unl.edu/courses/POLS/879\)](http://bulletin.unl.edu/courses/POLS/879)

POLS 879 (<http://bulletin.unl.edu/courses/POLS/879>) is intended to introduce the beginning graduate student to the field of comparative politics. Survey of the field of comparative politics. General theory and methodology; issues and crises in a number of functional areas; participation and socialization; and the special problems confronting the area specialist.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

880**Core Seminar in Political Theory**[LINK \(http://bulletin.unl.edu/courses/POLS/880\)](http://bulletin.unl.edu/courses/POLS/880)

Students required to read extensively and to take a final examination. Rigorous survey of some of the major areas of concern in empirical and normative political theory.

Credit Hours: 3

Campus:

Course Delivery: Classroom

POLS

891

Individual Readings

[LINK \(http://bulletin.unl.edu/courses/POLS/891\)](http://bulletin.unl.edu/courses/POLS/891)

Prereqs:
Permission

Credit Hours: 1-6

Max credits per degree: 24

Campus:

Course Delivery: Classroom

POLS

895

Internship

[LINK \(http://bulletin.unl.edu/courses/POLS/895\)](http://bulletin.unl.edu/courses/POLS/895)

Student is assigned and supervised by designated faculty member. Pass/No Pass only.

Internship in government agencies, quasi public agencies, private firms (profit and nonprofit), and other organizations.

Credit Hours: 3

Course Format: Field

Campus:

Course Delivery: Classroom

POLS

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/POLS/899\)](http://bulletin.unl.edu/courses/POLS/899)

Prereqs:
Permission

Prereq: Admission to masters degree program and permission of major adviser.

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

POLS

901

Dissertation Prospectus

[LINK \(http://bulletin.unl.edu/courses/POLS/901\)](http://bulletin.unl.edu/courses/POLS/901)

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

POLS

920

Seminar in American Government

[LINK \(http://bulletin.unl.edu/courses/POLS/920\)](http://bulletin.unl.edu/courses/POLS/920)

Prereqs:
Permission

Credit Hours: 3

Max credits per degree: 12

Campus:

Course Delivery: Classroom

POLS

931

Seminar in Public Policy

[LINK \(http://bulletin.unl.edu/courses/POLS/931\)](http://bulletin.unl.edu/courses/POLS/931)

Prereqs:
Permission

Credit Hours: 3

Max credits per degree: 12

Campus:

POLS

941**Seminar in Methods**[LINK \(http://bulletin.unl.edu/courses/POLS/941\)](http://bulletin.unl.edu/courses/POLS/941)Prereqs:
Permission

Credit Hours: 3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

POLS

950**Research Seminar in Biology and Politics**[LINK \(http://bulletin.unl.edu/courses/POLS/950\)](http://bulletin.unl.edu/courses/POLS/950)

Advanced research in the relationship between biology and politics.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

POLS

960**Seminar in International Relations**[LINK \(http://bulletin.unl.edu/courses/POLS/960\)](http://bulletin.unl.edu/courses/POLS/960)Prereqs:
Permission

Credit Hours: 3

Max credits per degree: 12

Campus:

Course Delivery: Classroom

POLS

965**Seminar in International Human Rights**[LINK \(http://bulletin.unl.edu/courses/POLS/965\)](http://bulletin.unl.edu/courses/POLS/965)Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

POLS

979**Research Seminar in Comparative Politics**[LINK \(http://bulletin.unl.edu/courses/POLS/979\)](http://bulletin.unl.edu/courses/POLS/979)

Credit Hours: 3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

POLS

991**Minor Research Problems**[LINK \(http://bulletin.unl.edu/courses/POLS/991\)](http://bulletin.unl.edu/courses/POLS/991)Prereqs:
Permission

Credit Hours: 1-6

Max credits per degree: 24

Campus:

Course Delivery: Classroom

**Prereqs:
Permission**

Prereq: Admission to doctoral degree program and permission of supervisory committee chair.

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Ω

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/PoliticalScience). (<http://www.unl.edu/gradstudies/prospective/programs/PoliticalScience>)

Department Chair: Elizabeth Theiss-Morse, Ph.D.

Graduate Chair: Ross Miller, Ph.D.

The department offers graduate courses leading to the degrees of master of arts, doctor of philosophy, and a joint degree with the law school leading to a master of arts in political science and juris doctorate. Graduate work may be pursued in: American government, comparative government, historical and normative theory, international relations, and public policy. Within the above areas, students can combine their work in political science with work in other departments leading to a concentration in various interdisciplinary programs such as human rights and human diversity, and public policy analysis and evaluation.

Requirements for the various degree programs are available on-line at: polisci.unl.edu.

Courses in public administration are offered through the University of Nebraska at Omaha.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/PoliticalScience). (<http://www.unl.edu/gradstudies/prospective/programs/PoliticalScience>)

Retrieved from "http://bulletin.unl.edu/graduate/Political_Science (http://bulletin.unl.edu/graduate/Political_Science)"

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Psychology

Ω

Courses for PSYC (PSYC)

Psychology of Adult Development and Aging

Crosslisted as *PSYC 446*

[LINK \(http://bulletin.unl.edu/courses/GERO/446\)](http://bulletin.unl.edu/courses/GERO/446)

Prereqs:

PSYC 181 (<http://bulletin.unl.edu/courses/PSYC/181>) or **GERO 200** (<http://bulletin.unl.edu/courses/GERO/200>).

Credit Hours:	3
Course Delivery:	Classroom

Major social and psychological changes that occur as a function of aging. Both normal and abnormal patterns of developmental change including their implications for behavior.

Psycholegal Research Other than Thesis I

Crosslisted as *PSYC 995*

[LINK \(http://bulletin.unl.edu/courses/LAW/757G\)](http://bulletin.unl.edu/courses/LAW/757G)

Research is supervised and approved by a faculty member in the Law/Psychology program. Absent the prior approval of the Dean, only those students enrolled in the Law/Psychology Joint Degree Program may register for this course. Absent the prior approval of the Dean, no student may take more than 6 hours of research in a selected and/or psycholegal research. A substantial research and writing project on a psychological topic.

Credit Hours:	3-6
Campus:	
Course Delivery:	Classroom

LAW
758G

Psycholegal Research Other than Thesis II

Crosslisted as *PSYC 995A*

[LINK \(http://bulletin.unl.edu/courses/LAW/758G\)](http://bulletin.unl.edu/courses/LAW/758G)

Research is supervised and approved by a faculty member in the Law/Psychology program. Absent the prior approval of the Dean, only those students enrolled in the Law/Psychology Joint Degree Program may register for this course. Absent the prior approval of the Dean, no student may take more than 6 hours of research in a selected and/or psycholegal research. For course description, see [LAW 757G](http://bulletin.unl.edu/courses/LAW/757G) (<http://bulletin.unl.edu/courses/LAW/757G>).

Credit Hours:	3-6
Campus:	
Course Delivery:	Classroom

LAW
762G

Law and Behavioral Science

Crosslisted as *PSYC 985*

[LINK \(http://bulletin.unl.edu/courses/LAW/762G\)](http://bulletin.unl.edu/courses/LAW/762G)

General issues in the interaction between law and the behavioral sciences; discussion of the use/misuse/nonuse of the behavioral sciences in the law, with attention to ways of making behavioral science input most useful; analysis of the law as a behavioral instrument.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
763G

Mental Health Law

Crosslisted as *PSYC 988*

[LINK \(http://bulletin.unl.edu/courses/LAW/763G\)](http://bulletin.unl.edu/courses/LAW/763G)

Credit may only be earned in either [LAW 763G](http://bulletin.unl.edu/courses/LAW/763G) (<http://bulletin.unl.edu/courses/LAW/763G>) or [LAW 772G](http://bulletin.unl.edu/courses/LAW/772G) (<http://bulletin.unl.edu/courses/LAW/772G>).

Critical review of the mental health laws throughout the nation and their psychological foundations. Emphasis on the research that illuminates the problems facing mental health law, system, and processes and the available solutions. Includes the insanity defense, competency to stand trial, guardianship, conservatorship, and civil commitment.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
764G

Topics in Law and Psychology I

Crosslisted as *PSYC 989*

[LINK \(http://bulletin.unl.edu/courses/LAW/764G\)](http://bulletin.unl.edu/courses/LAW/764G)

May be repeated once. Analysis of specific psycholegal topics. Previous course titles include Privacy, Mental Health Policy, Legal Decision Making, Institutional Reform and Deinstitutionalization, Legal Policy and Child Development, and Domestic Violence.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

LAW
765G

Topics in Law and Psychology II

Crosslisted as *PSYC 989A*

[LINK \(http://bulletin.unl.edu/courses/LAW/765G\)](http://bulletin.unl.edu/courses/LAW/765G)

May be repeated once. For course description, see [LAW 764G](http://bulletin.unl.edu/courses/LAW/764G) (<http://bulletin.unl.edu/courses/LAW/764G>).

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

PSYC
421/821

Psychology of Gender

Crosslisted as *WMNS 421/821*

[LINK \(http://bulletin.unl.edu/courses/PSYC/421\)](http://bulletin.unl.edu/courses/PSYC/421)

Prereqs:
12 hrs PSYC.

Theory and research on the role of gender in human behavior and attitudes. Diverse theoretical positions on the development of gender and the biological, social, and cultural bases that influence the relationship between gender and a variety of areas of human experience (e.g., intelligence and

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

achievement, emotion, relationships, sexuality, physical fitness, stress, and coping).

PSYC

425/825

Psychology of Racism

Crosslisted as *ETHN 425*

[LINK \(http://bulletin.unl.edu/courses/PSYC/425\)](http://bulletin.unl.edu/courses/PSYC/425)

Prereqs:

For psychology majors: **PSYC 350**
(<http://bulletin.unl.edu/courses/PSYC/350>).

For non-psychology majors: any research methods course.

Major terms and issues in psychology that pertain to race and racism in the United States. General principles of the psychology of racism that are universal. Psychology of the major racial minority groups in the United States examined through their unique cultures, histories, traditions, and collective identities. Research methods for the psychology of racism reviewed as a basis for interpreting research results.

Credit Hours:	3
Course Delivery:	Classroom

PSYC

428/828

Health Psychology

[LINK \(http://bulletin.unl.edu/courses/PSYC/428\)](http://bulletin.unl.edu/courses/PSYC/428)

Prereqs:

Junior standing.

The relationship between psychological factors and physical health. Health behavior, health decision-making, health promotion and coping from a variety of theoretical perspectives.

Credit Hours:	3
Course Delivery:	Classroom

PSYC

440/840

Perspectives in Psychology

[LINK \(http://bulletin.unl.edu/courses/PSYC/440\)](http://bulletin.unl.edu/courses/PSYC/440)

Prereqs:

12 hrs psychology.

Currently important fundamental issues in psychology considered within a framework of their philosophical foundations and historical perspectives.

Credit Hours:	3
Course Delivery:	Classroom

PSYC

451/851

Multivariate Research Design and Data Analysis

[LINK \(http://bulletin.unl.edu/courses/PSYC/451\)](http://bulletin.unl.edu/courses/PSYC/451)

Prereqs:

PSYC 350 (<http://bulletin.unl.edu/courses/PSYC/350>) with a grade of B or better

PSYC 450 (<http://bulletin.unl.edu/courses/PSYC/450/850>) (<http://bulletin.unl.edu/courses/PSYC/850>) (usually offered in the fall) and *PSYC 451* (<http://bulletin.unl.edu/courses/PSYC/451/851>) (<http://bulletin.unl.edu/courses/PSYC/851>) (usually offered in the spring) can be taken in any order.

Presentation of multivariate research designs and statistical models employed in psychological and behavioral research. Analysis using multiple regression and linear discriminant function models; interpretation and presentation of the results in oral, written, and web-based formats. Create, perform, and present an individual research project.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Course Delivery:	Classroom

PSYC

458/858

Behavior Genetics

[LINK \(http://bulletin.unl.edu/courses/PSYC/458\)](http://bulletin.unl.edu/courses/PSYC/458)

Prereqs:
12 hrs psychology or 12 hrs biological sciences, including [PSYC 373](http://bulletin.unl.edu/courses/PSYC/373)
(<http://bulletin.unl.edu/courses/PSYC/373>) or [BIOS 373](http://bulletin.unl.edu/courses/BIOS/373)
(<http://bulletin.unl.edu/courses/BIOS/373>)

Introduction to concepts and research in behavior genetics. The role of heredity in normal and disordered behaviors will be examined, with a special emphasis on the mechanisms by which genetic variation influences individual differences in behavior.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

PSYC **Human Memory**

460/860

[LINK \(http://bulletin.unl.edu/courses/PSYC/460\)](http://bulletin.unl.edu/courses/PSYC/460)

Prereqs:
12 hrs psychology, including [PSYC 350](http://bulletin.unl.edu/courses/PSYC/350)
(<http://bulletin.unl.edu/courses/PSYC/350>).

Issues in human memory within the context of cognitive psychology: attention; short and long term memory; retrieval processes; semantic memory; how long-term memory is involved in comprehension and knowledge; how emotion affects memory; and the major research paradigms used in the study of memory.

Credit Hours: 3

Course Delivery: Classroom

PSYC **Learning Processes**

461/861

[LINK \(http://bulletin.unl.edu/courses/PSYC/461\)](http://bulletin.unl.edu/courses/PSYC/461)

Prereqs:
12 hrs psychology, including [PSYC 268](http://bulletin.unl.edu/courses/PSYC/268)
(<http://bulletin.unl.edu/courses/PSYC/268>).

Theoretical evaluation of studies of learning, thinking, and perception.

Credit Hours: 3

Course Delivery: Classroom

PSYC **Motivation and Emotion**

462/862

[LINK \(http://bulletin.unl.edu/courses/PSYC/462\)](http://bulletin.unl.edu/courses/PSYC/462)

Prereqs:
12 hrs psychology, including [PSYC 350](http://bulletin.unl.edu/courses/PSYC/350)
(<http://bulletin.unl.edu/courses/PSYC/350>).

Major problems and methods involved in the study of motivation and emotion including theoretical considerations.

Credit Hours: 3

Course Delivery: Classroom

PSYC **Perception**

463/863

[LINK \(http://bulletin.unl.edu/courses/PSYC/463\)](http://bulletin.unl.edu/courses/PSYC/463)

Prereqs:
12 hrs psychology, including either [PSYC 263](http://bulletin.unl.edu/courses/PSYC/263)
(<http://bulletin.unl.edu/courses/PSYC/263>) or [373](http://bulletin.unl.edu/courses/PSYC/373)
(<http://bulletin.unl.edu/courses/PSYC/373>).

Analysis and comparison of approaches to the study of current problems in human perception and information processing. Psychophysical judgment, signal detection theory, perception of form and space, and the role of imagery in perception.

Credit Hours: 3

Course Delivery: Classroom

PSYC **Behavioral Neuroscience**

465/865

Crosslisted as *BIOS 419/819*

[LINK \(http://bulletin.unl.edu/courses/PSYC/465\)](http://bulletin.unl.edu/courses/PSYC/465)

Prereqs:

Credit Hours: 3

12 hrs psychology or 12 hrs biological sciences, including **PSYC 373** (<http://bulletin.unl.edu/courses/PSYC/373>) or **BIOS 373** (<http://bulletin.unl.edu/courses/BIOS/373>).

Course Format: Lecture 3

Course Delivery: Classroom

Relationship of physiological variables to behavior, an introduction to laboratory techniques in neuropsychology.

PSYC

Attention and Performance

[LINK \(http://bulletin.unl.edu/courses/PSYC/466\)](http://bulletin.unl.edu/courses/PSYC/466)

466/866

Prereqs:
PSYC 263 (<http://bulletin.unl.edu/courses/PSYC/263>).

Theory and research on human attention and the critical link between attention and performance within the context of cognitive psychology. The influence of various factors on attention (e.g., emotion, video games, cognitive disorders) and how these influence behavior (e.g., eye movements, perception, motor control, search).

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

PSYC

Human Sexuality and Society

[LINK \(http://bulletin.unl.edu/courses/PSYC/471\)](http://bulletin.unl.edu/courses/PSYC/471)

471/871

Crosslisted as *SOCI 471/871, EDPS 471/871, CYAF 471/871*

Prereqs:
Junior standing and 12 hrs in one of the departments in which the course is listed.

Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.).

Interdisciplinary approach to the study of human sexuality in terms of the psychological, social, cultural, anthropological, legal, historical, and physical characteristics of individual sexuality and sex in society.

Credit Hours: 3

Course Delivery: Classroom

PSYC

Transpersonal Psychology

[LINK \(http://bulletin.unl.edu/courses/PSYC/472\)](http://bulletin.unl.edu/courses/PSYC/472)

472/872

Prereqs:
12 hrs psychology.

Transpersonal psychology perspective including biological, social, psychological and spiritual aspects in a holistic conception of human nature. Integrates the psychology of Christian Mysticism, Buddhist meditation, and Eastern wisdom with Western scientific personality theory.

Credit Hours: 3

Course Delivery: Classroom

PSYC

Psychology of Social Behavior

[LINK \(http://bulletin.unl.edu/courses/PSYC/483\)](http://bulletin.unl.edu/courses/PSYC/483)

483/883

Prereqs:
12 hrs PSYC, including PSYC 288 (<http://bulletin.unl.edu/courses/PSYC/288>).

Current problems, methods, and findings in the study of individual behavior as it is influenced by the social environment.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

PSYC

Theories of Personality

[LINK \(http://bulletin.unl.edu/courses/PSYC/485\)](http://bulletin.unl.edu/courses/PSYC/485)

485/885

Prereqs:

Credit Hours: 3

12 hrs psychology, including one 200-level Group 2 course.

Course Delivery: Classroom

Detailed comparative study of the classic and modern theories of personality from the point of view of conflicts in the philosophies of science and images of man implied in the various theories.

PSYC

Clinical Psychology

[LINK \(http://bulletin.unl.edu/courses/PSYC/486\)](http://bulletin.unl.edu/courses/PSYC/486)

486/886

Prereqs:
12 hrs psychology, including one 200-level Group 2 course.

Fundamental procedures in clinical practice, a critical evaluation of diagnostic and therapeutic techniques.

Credit Hours: 3

Course Delivery: Classroom

PSYC

Community Psychology

[LINK \(http://bulletin.unl.edu/courses/PSYC/488\)](http://bulletin.unl.edu/courses/PSYC/488)

488/888

Prereqs:
12 hrs psychology, including one 200-level Group 2 course.

Examines the phenomena and perspectives typically included under the rubric community psychology, e.g., community mental health, crisis intervention, and social change interventions.

Credit Hours: 3

Course Delivery: Classroom

PSYC

Child Behavior and Development

[LINK \(http://bulletin.unl.edu/courses/PSYC/489\)](http://bulletin.unl.edu/courses/PSYC/489)

489/889

Prereqs:
12 hrs psychology, including one 200-level Group 2 course.

Current issues in theory and research in developmental psychology examined (e.g., emotional development, the changing American family, the preschool years, social understanding), along with methods of research in these and other areas.

Credit Hours: 3

Course Delivery: Classroom

PSYC

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/PSYC/899\)](http://bulletin.unl.edu/courses/PSYC/899)

899

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

PSYC

Pro-seminars in Cognition and Learning

[LINK \(http://bulletin.unl.edu/courses/PSYC/901\)](http://bulletin.unl.edu/courses/PSYC/901)

901

Prereqs:
Permission

Credit Hours: 3

Campus:

Course Delivery: Classroom

PSYC

Developmental: Biological and Cognitive Development

[LINK \(http://bulletin.unl.edu/courses/PSYC/902A\)](http://bulletin.unl.edu/courses/PSYC/902A)

902A

Prereqs:
Permission

Credit Hours: 3

PSYC
902B**Developmental: Social and Personality Development**[LINK \(http://bulletin.unl.edu/courses/PSYC/902B\)](http://bulletin.unl.edu/courses/PSYC/902B)Prereqs:
Permission

Credit Hours: 3

Course Delivery: Classroom

PSYC
903**Proseminar in Personality**[LINK \(http://bulletin.unl.edu/courses/PSYC/903\)](http://bulletin.unl.edu/courses/PSYC/903)Prereqs:
Permission

Credit Hours: 3

Course Delivery: Classroom

PSYC
904**Proseminar in Physiological**[LINK \(http://bulletin.unl.edu/courses/PSYC/904\)](http://bulletin.unl.edu/courses/PSYC/904)Prereqs:
Permission

Credit Hours: 3

Course Delivery: Classroom

PSYC
905**Proseminar in Sensation and Perception**[LINK \(http://bulletin.unl.edu/courses/PSYC/905\)](http://bulletin.unl.edu/courses/PSYC/905)Prereqs:
Permission

Credit Hours: 3

Course Delivery: Classroom

PSYC
906**Proseminar in Social Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/906\)](http://bulletin.unl.edu/courses/PSYC/906)Prereqs:
Permission

Credit Hours: 3

Course Delivery: Classroom

PSYC
907**Proseminar in Cognitive Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/907\)](http://bulletin.unl.edu/courses/PSYC/907)Prereqs:
Permission

Credit Hours: 3

Course Delivery: Classroom

PSYC
908**Proseminar in Clinical-Community**[LINK \(http://bulletin.unl.edu/courses/PSYC/908\)](http://bulletin.unl.edu/courses/PSYC/908)Prereqs:
Permission

Credit Hours: 3

Course Delivery: Classroom

PSYC
909**Proseminar in Psychopathology**[LINK \(http://bulletin.unl.edu/courses/PSYC/909\)](http://bulletin.unl.edu/courses/PSYC/909)Prereqs:
Permission

Credit Hours: 3

Course Delivery: Classroom

PSYC

910**Proseminar in History and Philosophy of Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/910\)](http://bulletin.unl.edu/courses/PSYC/910)**Prereqs:**
Permission**Credit Hours:** 3
Course Delivery: Classroom

PSYC

920**Seminar in Psychology: Abnormal**[LINK \(http://bulletin.unl.edu/courses/PSYC/920\)](http://bulletin.unl.edu/courses/PSYC/920)**Prereqs:**
Advanced graduate standing and permission**Credit Hours:** 1-9
Campus:
Course Delivery: Classroom

PSYC

921**Seminar in Psychology: Developmental**[LINK \(http://bulletin.unl.edu/courses/PSYC/921\)](http://bulletin.unl.edu/courses/PSYC/921)**Prereqs:**
Advanced graduate standing and permission.**Credit Hours:** 1-9
Max credits per degree: 9
Course Delivery: Classroom

PSYC

922**Seminar in Psychology: Clinical**[LINK \(http://bulletin.unl.edu/courses/PSYC/922\)](http://bulletin.unl.edu/courses/PSYC/922)**Prereqs:**
Advanced graduate standing and permission.**Credit Hours:** 1-9
Max credits per degree: 9
Course Delivery: Classroom

PSYC

924**Seminar in Psychology: Learning**[LINK \(http://bulletin.unl.edu/courses/PSYC/924\)](http://bulletin.unl.edu/courses/PSYC/924)**Prereqs:**
Advanced graduate standing and permission.**Credit Hours:** 1-9
Max credits per degree: 9
Course Delivery: Classroom

PSYC

925**Ethics for Psychologists**[LINK \(http://bulletin.unl.edu/courses/PSYC/925\)](http://bulletin.unl.edu/courses/PSYC/925)**Prereqs:**
PermissionThis course is a prerequisite for: [PSYC 925B \(http://bulletin.unl.edu/courses/PSYC/925B\)](http://bulletin.unl.edu/courses/PSYC/925B)

Introduction to ethical principles and reasoning for research, teaching and professional practice in psychology.

Credit Hours: 1
Campus:
Course Delivery: Classroom

PSYC

925A**Ethics for Clinical Psychologists**[LINK \(http://bulletin.unl.edu/courses/PSYC/925A\)](http://bulletin.unl.edu/courses/PSYC/925A)**Prereqs:**
Advanced graduate standing and permission**Credit Hours:** 1
Campus:

Application of ethical principles to practice and professional practice. Critique of the status of a professional mental health discipline, a discipline's ethical code, and practice in society.

Course Delivery: Classroom

PSYC
925B Ethics for Psychology and the Law

[LINK \(http://bulletin.unl.edu/courses/PSYC/925B\)](http://bulletin.unl.edu/courses/PSYC/925B)

Prereqs:
[PSYC 925 \(http://bulletin.unl.edu/courses/PSYC/925\)](http://bulletin.unl.edu/courses/PSYC/925)

Application of ethical principles to the practice of psychology in interaction with legal institutions with an emphasis on the communication of psychological expertise and research to those legal institutions.

Credit Hours: 1

Course Format: Lecture 1

Campus:

Course Delivery: Classroom

PSYC
926 Seminar in Psychology: Personality

[LINK \(http://bulletin.unl.edu/courses/PSYC/926\)](http://bulletin.unl.edu/courses/PSYC/926)

Prereqs:
Advanced graduate standing and permission.

Credit Hours: 1-9

Max credits per degree: 9

Course Delivery: Classroom

PSYC
929 Seminar in Psychology: Social Behavior

[LINK \(http://bulletin.unl.edu/courses/PSYC/929\)](http://bulletin.unl.edu/courses/PSYC/929)

Prereqs:
Advanced graduate standing and permission.

Credit Hours: 1-9

Max credits per degree: 9

Course Delivery: Classroom

PSYC
930 Seminar in Psychology: Psychometric Methods

[LINK \(http://bulletin.unl.edu/courses/PSYC/930\)](http://bulletin.unl.edu/courses/PSYC/930)

Prereqs:
Advanced graduate standing and permission.

Credit Hours: 1-9

Max credits per degree: 9

Course Delivery: Classroom

PSYC
941 Fundamentals of Research Design and Data Analysis 1

[LINK \(http://bulletin.unl.edu/courses/PSYC/941\)](http://bulletin.unl.edu/courses/PSYC/941)

Prereqs:
Instructor permission

This course is a prerequisite for: [PSYC 942 \(http://bulletin.unl.edu/courses/PSYC/942\)](http://bulletin.unl.edu/courses/PSYC/942)

[PSYC 941 \(http://bulletin.unl.edu/courses/PSYC/941\)](http://bulletin.unl.edu/courses/PSYC/941) is usually offered every fall.

Presentation of basic methods, designs, and data analysis techniques employed in psychological and behavioral research. Univariate and bivariate statistical analyses and research hypothesis testing, multiple groups ANOVA, multiple regression, and the general linear model (GLM).

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

PSYC
942 Fundamentals of Research Design and Data Analysis 2

[LINK \(http://bulletin.unl.edu/courses/PSYC/942\)](http://bulletin.unl.edu/courses/PSYC/942)

Prereqs:

Credit Hours: 3

PSYC 941 and instructor permission

This course is a prerequisite for: [PSYC 943 \(http://bulletin.unl.edu/courses/PSYC/943\)](http://bulletin.unl.edu/courses/PSYC/943)

[PSYC 942 \(http://bulletin.unl.edu/courses/PSYC/942\)](http://bulletin.unl.edu/courses/PSYC/942) is usually offered every spring.

Presentation of additional basic methods, designs, and data analysis techniques employed in psychological and behavioral research. Factorial designs and ANOVA, integrating these designs into the general linear model (GLM), testing and comparing models, uses of statistical control, path analysis, linear discriminant function analysis, and cluster analysis.

Course Format: Lecture 3

Course Delivery: Classroom

PSYC
943

Fundamentals of Multivariate Modeling

[LINK \(http://bulletin.unl.edu/courses/PSYC/943\)](http://bulletin.unl.edu/courses/PSYC/943)

Prereqs:

[PSYC 942 \(http://bulletin.unl.edu/courses/PSYC/942\)](http://bulletin.unl.edu/courses/PSYC/942) and instructor permission

This course is a prerequisite for: [PSYC 948 \(http://bulletin.unl.edu/courses/PSYC/948\)](http://bulletin.unl.edu/courses/PSYC/948)

[PSYC 943 \(http://bulletin.unl.edu/courses/PSYC/943\)](http://bulletin.unl.edu/courses/PSYC/943) is a pre-requisite for [PSYC 944 \(http://bulletin.unl.edu/courses/PSYC/944\)](http://bulletin.unl.edu/courses/PSYC/944) and [PSYC 948 \(http://bulletin.unl.edu/courses/PSYC/948\)](http://bulletin.unl.edu/courses/PSYC/948).

Presentation of the core topics in modern multivariate analysis, including extensions of linear models involving link functions, maximum likelihood and Bayesian estimation, missing data, path models for multivariate regression and mediation, repeated measures analysis of variance, and exploratory factor analysis.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

PSYC
944

Multilevel Models for Longitudinal and Repeated Measures Data

[LINK \(http://bulletin.unl.edu/courses/PSYC/944\)](http://bulletin.unl.edu/courses/PSYC/944)

Prereqs:

[PSYC 943](http://bulletin.unl.edu/courses/PSYC/943) and instructor permission

This course is a prerequisite for: [PSYC 945 \(http://bulletin.unl.edu/courses/PSYC/945\)](http://bulletin.unl.edu/courses/PSYC/945)

Applications of the multilevel model (hierarchical linear model, general linear mixed model) for analyzing longitudinal and repeated measures data, including analysis of growth curves, within-person fluctuation, repeated measures research designs with crossed random effects, and simultaneous prediction of multiple sources of variation.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

PSYC
945

Advanced Multilevel Models

[LINK \(http://bulletin.unl.edu/courses/PSYC/945\)](http://bulletin.unl.edu/courses/PSYC/945)

Prereqs:

[PSYC 944 \(http://bulletin.unl.edu/courses/PSYC/944\)](http://bulletin.unl.edu/courses/PSYC/944) and permission

Advanced applications of the multilevel model (hierarchical linear model, general linear mixed model) for examining multiple sources of variation, models for crossed sources of nesting, three levels of nesting, heterogeneous variances, multivariate outcomes, and non-linear outcomes.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

PSYC
946

Psychology of Survey Response

Crosslisted as *SRAM 946*

[LINK \(http://bulletin.unl.edu/courses/PSYC/946\)](http://bulletin.unl.edu/courses/PSYC/946)

Cognitive and communicative processes affect on dynamics of survey interviewing and relationships to principles of survey design. Effects of question wording on comprehension; question order and context on attitude; communicative and retrieval processes on validity of retrospective behavioral reports; and impact of response alternatives on answers.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PSYC

947**Questionnaire Design**Crosslisted as *SOCI 947, SRAM 947*[LINK \(http://bulletin.unl.edu/courses/PSYC/947\)](http://bulletin.unl.edu/courses/PSYC/947)

Design of questionnaires for survey research and the theoretical and practical issues arising from them. Selection of appropriate measurement techniques for assessing opinions, past behaviors and events, and factual material.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

PSYC

948**Latent Trait Measurement and Structural Equation Models**[LINK \(http://bulletin.unl.edu/courses/PSYC/948\)](http://bulletin.unl.edu/courses/PSYC/948)**Prereqs:**

PSYC 943 (<http://bulletin.unl.edu/courses/PSYC/943>) and instructor permission

PSYC 944 (<http://bulletin.unl.edu/courses/PSYC/944>) and *PSYC 948* (<http://bulletin.unl.edu/courses/PSYC/948>) may be taken in any order.

Contemporary measurement theory and latent variable models for scale construction and evaluation, including confirmatory factor analysis, item response modeling, diagnostic classification models, and structural equation modeling.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

PSYC

955**Introduction to Clinical Assessment**[LINK \(http://bulletin.unl.edu/courses/PSYC/955\)](http://bulletin.unl.edu/courses/PSYC/955)**Prereqs:**

Permission

This course is a prerequisite for: *PSYC 956* (<http://bulletin.unl.edu/courses/PSYC/956>), *PSYC 957* (<http://bulletin.unl.edu/courses/PSYC/957>), *PSYC 958* (<http://bulletin.unl.edu/courses/PSYC/958>)

Introduction to the theory and application of assessment procedures and techniques. Measurement and interpretive issues in clinical assessment. Laboratory introduction to structured techniques emphasizing intellectual assessment.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

956**Clinical Assessment Techniques**[LINK \(http://bulletin.unl.edu/courses/PSYC/956\)](http://bulletin.unl.edu/courses/PSYC/956)**Prereqs:**

PSYC 955 (<http://bulletin.unl.edu/courses/PSYC/955>) or permission

Didactic and laboratory training in the administration, scoring, and beginning interpretation of projective and objective assessment techniques.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

957**Topics in Clinical Assessment**[LINK \(http://bulletin.unl.edu/courses/PSYC/957\)](http://bulletin.unl.edu/courses/PSYC/957)**Prereqs:**

PSYC 955 (<http://bulletin.unl.edu/courses/PSYC/955>) and **956** (<http://bulletin.unl.edu/courses/PSYC/956>) and permission, or equivalent advanced training and permission

A selected topic taught during the course. Examples include clinical neuropsychology, assessment techniques and assessment batteries, individual case conference presentation, and assessment of sexual dysfunctions.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

958**Seminar in Dispositional Assessment**[LINK \(http://bulletin.unl.edu/courses/PSYC/958\)](http://bulletin.unl.edu/courses/PSYC/958)**Prereqs:**

PSYC 955 (<http://bulletin.unl.edu/courses/PSYC/955>) and **956** (<http://bulletin.unl.edu/courses/PSYC/956>) or permission

Advanced interpretation, issues, and research in clinical psychology assessment. Emphasis on the "dispositional assessment" model of clinical analysis. Student presentations and individual case interpretation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

960**Seminar in Alcohol Use and Abuse**[LINK \(http://bulletin.unl.edu/courses/PSYC/960\)](http://bulletin.unl.edu/courses/PSYC/960)**Prereqs:****Permission**

Biopsychosocial perspective of alcohol abuse. Focus on multiple factors that contribute to alcohol problems, including physiological/genetic, psychological and sociocultural determinants. Intervention, treatment and prevention issues. Societal and governmental attitudes and policies. Emphasis on theoretical and empirical literature bearing on the above areas.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

963**Group Processes and Group Psychotherapy**[LINK \(http://bulletin.unl.edu/courses/PSYC/963\)](http://bulletin.unl.edu/courses/PSYC/963)**Prereqs:****Open to students in community-clinical psychology or permission**

Group phenomena which are relevant to mental health service providers. Incorporates both didactic and experiential teaching of group process and group outcome issues. Focus on group process issues in group therapy (using the group concepts of Yalom and other writers) and experiencing these concepts in a training group.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

970**Clinical Interviewing**[LINK \(http://bulletin.unl.edu/courses/PSYC/970\)](http://bulletin.unl.edu/courses/PSYC/970)**Prereqs:****Admission to the community-clinical psychology program or permission**

Basic skills needed in seeing a mental health client (e.g., listening, empathy, reflection and restatement) explored through didactic, group interaction and live individual interviews. Focus is preparing the student to meet their first psychotherapy client in a competent manner. Doing observing and rating pseudo and patient interviews.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

PSYC

971**Psychological Literature I**[LINK \(http://bulletin.unl.edu/courses/PSYC/971\)](http://bulletin.unl.edu/courses/PSYC/971)

Reading assignments in special fields; library reading, conferences.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

PSYC

Psychological Literature II[LINK \(http://bulletin.unl.edu/courses/PSYC/972\)](http://bulletin.unl.edu/courses/PSYC/972)

972

For course description, see [PSYC 971](http://bulletin.unl.edu/courses/PSYC/971)
(<http://bulletin.unl.edu/courses/PSYC/971>).

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

PSYC

974**Teaching Methods for Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/974\)](http://bulletin.unl.edu/courses/PSYC/974)

Prereqs:
Permission

This course is a prerequisite for: [PSYC 990](http://bulletin.unl.edu/courses/PSYC/990) (<http://bulletin.unl.edu/courses/PSYC/990>)

Teaching methods, philosophical perspectives to teaching, practical ideas about classroom instruction, and career issues in higher education.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

PSYC

975**Advanced Experimental Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/975\)](http://bulletin.unl.edu/courses/PSYC/975)

Prereqs:
Permission

Typical refinements of controlled investigations. General methodology and practice in carrying out a few prolonged experiments.

Credit Hours:	1-9
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

PSYC

976**Psychology of Race and Ethnicity**[LINK \(http://bulletin.unl.edu/courses/PSYC/976\)](http://bulletin.unl.edu/courses/PSYC/976)

Theoretical and practical implications for the impact of race and ethnicity on psychological processes and functioning. The meaning of race and ethnicity for notions of self, identity acquisition and maintenance, intra- and inter-group processes, measurement of biases and discrimination. Methods to improve the treatment of race and ethnic issues within the field of psychology.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

PSYC

979**Cultural Diversity in Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/979\)](http://bulletin.unl.edu/courses/PSYC/979)

Prereqs:
Permission

Influence of culturally driven world-views on psychological functioning and on psychological theory. American psychological theory, research and practice influenced by the socialization and world-views of the contributing psychologists. Ways in which existing theory and practice accommodate--or fail to accommodate--the world-views and experiences of racial/ethnic minorities in the contemporary United States.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

981**Clinical Intervention I**[LINK \(http://bulletin.unl.edu/courses/PSYC/981\)](http://bulletin.unl.edu/courses/PSYC/981)

Prereqs:
Graduate standing in clinical psychology training program or permission of director of clinical training

This course is a prerequisite for: [PSYC 982](http://bulletin.unl.edu/courses/PSYC/982) (<http://bulletin.unl.edu/courses/PSYC/982>)

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Practical and didactic training in assessment and intervention for psychological and behavioral disorders. Emphasis on entry-level clinical skills including establishment of the therapeutic relationship, case conceptualization, and development of treatment plans within the scientist-practitioner model.

PSYC

982

Clinical Intervention II

[LINK \(http://bulletin.unl.edu/courses/PSYC/982\)](http://bulletin.unl.edu/courses/PSYC/982)

Prereqs:

PSYC 981 (<http://bulletin.unl.edu/courses/PSYC/981>) and either graduate standing in clinical psychology training program or permission of director of clinical training

Practical and didactic training in assessment and intervention for psychological and behavioral disorders. Emphasis on conceptualization of more complex cases, assessment and treatment of a broader range of cases, and evaluation of efficacy of interventions within the scientist-practitioner model.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PSYC

983

Therapy in Clinical Psychology I

[LINK \(http://bulletin.unl.edu/courses/PSYC/983\)](http://bulletin.unl.edu/courses/PSYC/983)

Prereqs:

Permission

Theory and methods employed by different "schools" of therapy analyzed and related to basic psychological theory.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PSYC

986

Child Psychopathology and Assessment

[LINK \(http://bulletin.unl.edu/courses/PSYC/986\)](http://bulletin.unl.edu/courses/PSYC/986)

Prereqs:

Advanced graduate standing and permission

Major categories of child psychopathology, theoretical formulations of etiology of such disorders, empirical findings and issues related to each disturbance and appropriate instruments for assessing each disorder.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PSYC

987

Child Therapy

[LINK \(http://bulletin.unl.edu/courses/PSYC/987\)](http://bulletin.unl.edu/courses/PSYC/987)

Prereqs:

Advanced graduate standing and permission

Various child intervention techniques with an emphasis on behavioral parent training for child noncompliance.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PSYC

990

Practicum in Teaching Methods for Psychology

[LINK \(http://bulletin.unl.edu/courses/PSYC/990\)](http://bulletin.unl.edu/courses/PSYC/990)

Prereqs:

PSYC 974 (<http://bulletin.unl.edu/courses/PSYC/974>) and permission

Students will contract with instructor to teach an undergraduate psychology course under supervision. Individual instruction on teaching methods, classroom assessment, and practical classroom techniques.

Credit Hours: 1-6

Max credits per degree: 6

Course Format: Independent Study

Campus:

Course Delivery: Classroom

PSYC

991**Research Methods in Social and Personality Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/991\)](http://bulletin.unl.edu/courses/PSYC/991)**Prereqs:**

Permission and second-year graduate standing; at least 1 sem graduate-level statistics

Research design and the application of design to real research problems, including the application of statistics, problems of control, confounding, alternative explanations, demand characteristics, and experimenter effects. In addition to readings in theory of design and experimentation, the practical solution of design problems and critique of research are emphasized.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

992**Field Methods in Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/992\)](http://bulletin.unl.edu/courses/PSYC/992)**Prereqs:**

Second-year graduate standing and permission

Design and implementation of field research, including observational methods, experimental and quasi-experimental designs, and program evaluation. In addition to readings in the theory of field research methodology, the solutions to specific, commonly occurring design and statistical problems are emphasized.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

993**Seminar in Program Evaluation**[LINK \(http://bulletin.unl.edu/courses/PSYC/993\)](http://bulletin.unl.edu/courses/PSYC/993)

Major issues involved in the evaluation of programs which deliver human services. Includes needs assessments, outcome evaluation techniques, qualitative methods, goal attainment scaling, multi-attribute utility theory, role relationships and political problems with which evaluators must contend.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

996**Research Problems Other Than Thesis**[LINK \(http://bulletin.unl.edu/courses/PSYC/996\)](http://bulletin.unl.edu/courses/PSYC/996)

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

PSYC

997**Clinical Practicum**[LINK \(http://bulletin.unl.edu/courses/PSYC/997\)](http://bulletin.unl.edu/courses/PSYC/997)**Prereqs:**

Full graduate standing in clinical psychology training program or permission of director of clinical training

Individually supervised evaluative and diagnostic work with clinic subjects. Emphasis on the refinement of skills in evaluating and diagnosing behavior deviations.

Credit Hours:	1-30
Max credits per degree:	30
Campus:	
Course Delivery:	Classroom

PSYC

998**Practicum in Law and Psychology**[LINK \(http://bulletin.unl.edu/courses/PSYC/998\)](http://bulletin.unl.edu/courses/PSYC/998)

Prereqs:
Full graduate standing in Law/Psychology Graduate Training Program or permission of the director of the Law/Psychology Program

See description under Law/Psychology Studies which follows. Supervised fieldwork in law and psychology. Emphasis on the integration of legal analysis and psychological research in the formulation or implementation of public policy.

Credit Hours:	3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

PSYC

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/PSYC/999\)](http://bulletin.unl.edu/courses/PSYC/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Psychology). (<http://www.unl.edu/gradstudies/prospective/programs/Psychology>)

Department Chair: Rick Bevins, Ph.D.

Graduate Chair: Debra Hope, Ph.D.

The department offers doctoral programs in six program areas of psychology (clinical, cognitive, developmental, law and psychology, neuroscience and behavior, and social). Students are admitted into one of these six programs.

Those admitted to graduate standing must have completed an undergraduate major in psychology, or its equivalent, including a laboratory course in experimental psychology. An undergraduate course in statistics is required. Students with otherwise superior undergraduate credentials who do not meet admission requirements may be admitted as either provisional or unclassified students while removing deficiencies.

In deciding on admissions, the primary considerations are the undergraduate transcript, the student's GPA, scores on the Graduate Record Examination, letters of recommendation, and relevant background experiences and skills.

Students admitted into their program will be presented with opportunities to acquire teaching, research, service or consultation skills, and expertise in psychology.

The PhD program in clinical psychology requires successful completion of a one-year, full-time clinical internship. The internship must be taken at a facility approved by the clinical faculty.

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Law/Psychology Studies

Advisory Committee: Professor Wiener (chair)

Department of Psychology: Professors Bornstein, Flowers, Spaulding, Tomkins, Wilcox; Associate Professor Scalora; Assistant Professors Brank, Gervais
College of Law: Professors Gardner, Lawson, Poser, Schopp, Willborn

Departments Participating: College of Law and the Department of Psychology at Lincoln

Under the dual sponsorship of the Department of Psychology and the College of Law at the University of Nebraska–Lincoln, the Law/ Psychology Program is intended to train scholars who are engaged in basic and applied research and writing on social issues and problems in the law, the legal system, and the legal process. Law/psychology training is available in each of the major subfields of psychology.

One track leads to both the JD degree in law and the PhD degree in psychology. Students typically work six years in the program, with a seventh year likely if the student chooses to complete an internship in community psychology or mental health administration. Eighteen hours of course work (12 hours of didactic course work; 6 hours of interdisciplinary research) apply toward both degrees. Students interested in legal problems affecting mental health services may elect to specialize in mental health policy and administration.

Those who wish to concentrate their efforts primarily in the discipline and methods of psychology but who wish to apply those efforts at least partially to legal and policy issues may find the PhD/MLS (master of legal studies) track more conducive to their purposes. This option directs primary investment of time and energy to the PhD in psychology, but it also provides the opportunity to develop a sufficient command of the relevant legal background to enable the student to pursue psychological research in a manner that increases its relevance to legal and policy issues. The MLS is a law degree that requires the equivalent of one year of full-time legal study and provides the opportunity to study legal topics relevant to the individual's primary field of study.

For students who wish to be legal practitioners but who desire to obtain a strong background in psychology or social science methods, a joint JD/MA program is available. Under this option, 15 hours of course work (9 hours of didactic course work; 6 hours of interdisciplinary research) of the required 36 apply toward both degrees. Persons already holding the JD degree may also seek a terminal MA degree under this program as part of the Law/Psychology Program's post-doctoral fellowship tracks. Although it is non-degree, post-doctoral training is also available for persons holding the PhD degree in psychology.

Finally, the Law/Psychology Program offers a specialty program in clinical psychology with emphasis on forensic psychology. The latter program leads to the PhD degree only, but it includes psycholegal course work, research, and clinical experiences. Students in other subfields of psychology also may construct specialty programs (e.g., developmental psychology and the law).

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Psychology). (<http://www.unl.edu/gradstudies/prospective/programs/Psychology>)

Retrieved from "<http://bulletin.unl.edu/graduate/Psychology> (<http://bulletin.unl.edu/graduate/Psychology>)"
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Public Administration

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Description

School Director: Russell L. Smith, Ph.D.

UNL MPA Program Coordinator: Meagan Van Gelder, Ph.D.

UNL Graduate Adviser: Ethel Williams, Ph.D.

Master of Public Administration

The mission of the master of public administration (MPA) is to strengthen the public service in a democratic and diverse society by educating students to manage and lead public and nonprofit institutions effectively, ethically and democratically.

The School of Public Administration is a member of the National Association of Schools of Public Affairs and Administration (NASPAA). Ranked among the top MPA programs in the US, the MPA program is fully accredited through 2004–2005.

Students living in Lincoln may complete the MPA degree by taking courses in Lincoln and/or Omaha.

Additional information may be obtained from:

School of Public Administration
University of Nebraska at Omaha
Annex 27
Omaha, NE 68182
(402) 554-2625

or

MPA Program–Lincoln
University of Nebraska–Lincoln
309 Architecture Hall
PO Box 880649
Lincoln, NE 68588-0649
(402) 472-4378

Faculty

- Bartle, John –1994; Professor; BA 1979 Swathmore; MPA 1983 Texas; PhD 1990 Ohio State
- Blair, Robert –1997; Associate Professor; BA 1973, MPA 1975 Nebraska (Omaha); PhD 1996 Nebraska (Lincoln)
- Box, Richard –1998; Professor; BS 1971, MS 1975 Southern Oregon State; MPA 1983 Golden State; DPA 1990 Southern California
- Brown, Sam –2002; Assistant Professor; PhD 1998 Maryland (Baltimore)
- Ebdon, Carol –1997; Associate Professor; BA 1978 John Carroll; MPA 1979 Toledo; PhD 1997 SUNY (Albany)
- Hamilton, Mary –2004; Sr. Executive-in-Residence; BA 1966 Bethel; MA 1969 North Carolina (Chapel Hill); PhD 1976 Maryland (College Park)
- Krane, Dale –1989; Professor; BA 1965, MA 1966 Indiana; PhD 1973 Minnesota
- Kriz, Ken –2003; Assistant Professor; PhD 2000 Indiana (Bloomington)
- Marshall, Gary –1995; Associate Professor; BA 1981 Massachusetts; MPA 1987 George Washington; PhD 1993 Virginia Tech
- Milliken, J. B. –2004; Professor and President, University of Nebraska; BA 1978 Nebraska (Lincoln); JD 1983 New York
- Reed, B. J. –1982; Professor and Dean, College of Public Affairs and Community Services; BA 1971, MS 1972 Fort Hays State; PhD 1977 Missouri
- Reed, Christine –1982; Professor; PhD 1983 Brown
- Schumaker, Alice –1998; Assistant Professor; PhD 1997 Nebraska (Lincoln)
- Smith, Russell –1986; Professor and Chair; BA 1972 Houston; MA 1974 North Texas State; PhD 1977 Tennessee
- Tarry, Scott –2000; Associate Professor; PhD 1993 Michigan
- White, Jay D. –1987; Professor; BBA 1970, MBA 1975, DPA 1982 George Washington
- Williams, Ethel –1996; Associate Professor; PhD 1996 Nebraska (Lincoln)

Social Work

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Description

School Director: Theresa Barron-McKeagney, Ph.D., LCSW

The School of Social Work is administered by the University of Nebraska at Omaha. The school's BSW and MSW degree programs are accredited by the Council on Social Work Education (CSWE), the national accrediting body for all social work education. All graduate classes are offered on the Omaha campus. (A few graduate courses are offered off campus). Because practicum placements for supervised field study are available in Lincoln and surrounding locales as well as in Omaha, it is usually possible for students living outside of Omaha to limit their commuting to Omaha to two days per week. For information or application for admission, please contact:

School of Social Work
University of Nebraska at Omaha
Annex 40
Omaha, NE 68182-0293
(402) 554-2792
<http://socialwork.unomaha.edu> (<http://socialwork.unomaha.edu>)

Faculty

- Anderson, Debra K. –2002; Associate Professor; BSW 1982 Mary Bismarck; MSW 1988 Missouri (Columbia); PhD 2000 Nebraska (Omaha)
- Barron-McKeagney, Theresa –1989; Associate Professor and Director; BSW 1981 Iowa; MSW 1986 Nebraska (Omaha); PhD 1993 Nebraska (Lincoln)
- Coyne, Ann –1975; Professor; BA 1958 Cornell; MSW 1975, PhD 1980 Nebraska (Lincoln)
- D'Souza, Henry –1988; Professor; MSW 1975 Mysore; PhD 1989 Michigan
- Weber, Gwen –1986; Professor; BA 1967, MSW 1969, PhD 1979 Nebraska (Lincoln)
- Woody, Jane –1975; Professor; MSW 1973 Western Michigan; PhD 1970 Michigan State

Sociology

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Courses for SOCI (SOCI)

AGRO

475/875

Water Quality Strategy

[LINK \(http://bulletin.unl.edu/courses/AGRO/475\)](http://bulletin.unl.edu/courses/AGRO/475)

Crosslisted as *POLS 475/875, SOCI 475/875, GEOL 475/875, CIVE 475/875, SOIL 475, NRES 475/875, WATS 475, MSYM 475/875, CRPL 475/875*

Prereqs:
Senior standing or permission.

Capstone course.

Holistic approach to the selection and analysis of planning strategies for protecting water quality from nonpoint sources of contamination. Introduction to the use of methods of analyzing the impact of strategies on whole systems and subsystems; for selecting strategies; and for evaluating present strategies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
ACE Outcomes:	10 ²

ANTH

478/878

Pro-seminar in Latin American Studies

[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)

Crosslisted as *HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878*

Prereqs:
Junior standing and permission.

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Credit Hours:	3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

POLS

417/817

Policy and Program Evaluation ResearchCrosslisted as *SOCI 468/868*[LINK \(http://bulletin.unl.edu/courses/POLS/417\)](http://bulletin.unl.edu/courses/POLS/417)**Prereqs:**
6 hrs social sciences.

Techniques useful for research aiding in policy making and for assessing the impact of policy. Acquaints student with the role of research in policy formation and evaluation and to give the student experience in conducting such research.

Credit Hours:	3
Course Delivery:	Classroom
Groups:	Public Administration and Policy

POLS

466/866

Pro-seminar in International Relations ICrosslisted as *HIST 479/879, SOCI 466/866, ANTH 479/879, GEOG 448/848, ECON 466/866, AECN 467*[LINK \(http://bulletin.unl.edu/courses/POLS/466\)](http://bulletin.unl.edu/courses/POLS/466)**Prereqs:**
Senior standing and permission.

Open to students with an interest in international relations.

Topic varies

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	International Relations

PSYC

471/871

Human Sexuality and SocietyCrosslisted as *SOCI 471/871, EDPS 471/871, CYAF 471/871*[LINK \(http://bulletin.unl.edu/courses/PSYC/471\)](http://bulletin.unl.edu/courses/PSYC/471)**Prereqs:**
Junior standing and 12 hrs in one of the departments in which the course is listed.

Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.).

Interdisciplinary approach to the study of human sexuality in terms of the psychological, social, cultural, anthropological, legal, historical, and physical characteristics of individual sexuality and sex in society.

Credit Hours:	3
Course Delivery:	Classroom

PSYC

947

Questionnaire DesignCrosslisted as *SOCI 947, SRAM 947*[LINK \(http://bulletin.unl.edu/courses/PSYC/947\)](http://bulletin.unl.edu/courses/PSYC/947)

Design of questionnaires for survey research and the theoretical and practical issues arising from them. Selection of appropriate measurement techniques for assessing opinions, past behaviors and events, and factual material.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SOCI

407/807

Strategies of Social Research: Qualitative Methods[LINK \(http://bulletin.unl.edu/courses/SOCI/407\)](http://bulletin.unl.edu/courses/SOCI/407)

Systematic review and application of qualitative research methods, including participant observation, unstructured interviewing, audiovisual techniques and personal document analysis; data collection and interpretation emphasized as well as different theoretical assumptions underlying their various approaches.

Credit Hours:	3
Course Delivery:	Classroom

SOCI

415/815

Social Change[LINK \(http://bulletin.unl.edu/courses/SOCI/415\)](http://bulletin.unl.edu/courses/SOCI/415)

Prereqs:
9 hrs sociology or related social sciences.

Analysis of sociological principles of social change at both the community and primary group level; analysis of research and theoretical literature.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Contemporary Family Issues**

425/825

[LINK \(http://bulletin.unl.edu/courses/SOCI/425\)](http://bulletin.unl.edu/courses/SOCI/425)

Prereqs:
9 hrs sociology or related social sciences

Contemporary issues confronting American families and family research. Adolescent pregnancy, work-family policy, family violence, divorce, single parents, and step families.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Mass Communication**

435/835

[LINK \(http://bulletin.unl.edu/courses/SOCI/435\)](http://bulletin.unl.edu/courses/SOCI/435)

Prereqs:
9 hrs sociology or related social sciences.

Analysis of the structure and effects of the media of mass communication.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Social Psychology**

441/841

[LINK \(http://bulletin.unl.edu/courses/SOCI/441\)](http://bulletin.unl.edu/courses/SOCI/441)

Prereqs:
9 hrs sociology or related social sciences.

Psychosocial bases of group behavior, inter-stimulation, and behavioral products.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Personality and Social Structure**

442/842

[LINK \(http://bulletin.unl.edu/courses/SOCI/442\)](http://bulletin.unl.edu/courses/SOCI/442)

Prereqs:
9 hrs sociology or related social sciences.

Personality and the sociocultural environment.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Social Demography**

444/844

[LINK \(http://bulletin.unl.edu/courses/SOCI/444\)](http://bulletin.unl.edu/courses/SOCI/444)

Prereqs:
9 hrs sociology or related social sciences.

Historical and cross-cultural approach to population issues by linking changes in fertility and mortality to social institutions. Focuses on the link between population processes and such issues as gender roles, the role of the family, the Third World, and poverty and inequality.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Sociology of Urban Areas**

445/845

[LINK \(http://bulletin.unl.edu/courses/SOCI/445\)](http://bulletin.unl.edu/courses/SOCI/445)

Prereqs:
9 hrs sociology or related social sciences.

Trends in urbanization that incorporate demography, ecology, and planning. Selected urban problems.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Environmental Sociology**

446/846

[LINK \(http://bulletin.unl.edu/courses/SOCI/446\)](http://bulletin.unl.edu/courses/SOCI/446)

Prereqs:
9 hrs sociology or related social sciences or permission.

Role of humans in the ecosystem, especially the interaction of human societies with the natural environment, including other species and other human societies. Theories of the sociocultural causes of environmentally-related problems and the policies designed to deal with these problems.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Family Diversity**

448/848

Crosslisted as *ETHN 448/848*

[LINK \(http://bulletin.unl.edu/courses/SOCI/448\)](http://bulletin.unl.edu/courses/SOCI/448)

Prereqs:
9 hrs sociology or related social sciences.

Analyzes diversity in family structure and family choices. Includes: rural families, gay/lesbian families, Native American families, African American families, Latino families, working class and working poor families and cohabitation.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Family Research and Theory**

449/849

[LINK \(http://bulletin.unl.edu/courses/SOCI/449\)](http://bulletin.unl.edu/courses/SOCI/449)

Prereqs:
9 hrs sociology or related social sciences.

Contemporary theory and research dealing with family structure and change. Focuses on family systems that characterize different social classes and various ethnic groups in our society. Selected problems and contemporary research emphasized.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Social Institutions**

450/850

[LINK \(http://bulletin.unl.edu/courses/SOCI/450\)](http://bulletin.unl.edu/courses/SOCI/450)

Prereqs:
9 hrs sociology or related social sciences.

Analysis of means of social control, with emphasis upon social institutions.

Credit Hours: 3

Course Delivery: Classroom

SOCI **Sociology of Religion**

452/852

[LINK \(http://bulletin.unl.edu/courses/SOCI/452\)](http://bulletin.unl.edu/courses/SOCI/452)

Prereqs:
9 hrs sociology or related social sciences.

Consideration of sources and nature of religion, drawing on contributions of anthropologists, sociologists, psychologists, and others. Emphasis on interaction of religion and society.

Credit Hours: 3

Course Delivery: Classroom

SOCI

Sociology of Health and Health Professions[LINK \(http://bulletin.unl.edu/courses/SOCI/453\)](http://bulletin.unl.edu/courses/SOCI/453)**453/853****Prereqs:****9 hrs sociology or related social sciences.**

Social and cultural bases of health and illness. Social factors in the definition of illness and in the organization and distribution of health care.

Credit Hours: 3**Course Delivery:** Classroom

SOCI

History of Sociological Theory[LINK \(http://bulletin.unl.edu/courses/SOCI/455\)](http://bulletin.unl.edu/courses/SOCI/455)**455/855****Prereqs:****9 hrs sociology or related social science.**

Survey of the nineteenth- and early twentieth-century writers whose ideas have had a strong impact on the development of contemporary sociology and sociological theories. Emphasis on the work of such persons as Karl Marx, Emile Durkheim, Max Weber, George Herbert Mead, and Georg Simmel.

Credit Hours: 3**Course Delivery:** Classroom

SOCI

Education and Society[LINK \(http://bulletin.unl.edu/courses/SOCI/460\)](http://bulletin.unl.edu/courses/SOCI/460)**460/860****Prereqs:****9 hrs sociology or related social sciences.**

Analysis of education as a social institution and its relationship to other institutions, e.g., economy, polity, religion, and the family. Emphasizes the role of the educational institution as an agent of stability and change. Emphasis on research and policy evaluation.

Credit Hours: 3**Course Delivery:** Classroom

SOCI

Advanced Social Research Methods[LINK \(http://bulletin.unl.edu/courses/SOCI/462\)](http://bulletin.unl.edu/courses/SOCI/462)**462/862****Prereqs:**

SOCI 101 (<http://bulletin.unl.edu/courses/SOCI/101>), **205** (<http://bulletin.unl.edu/courses/SOCI/205>), and **206** (<http://bulletin.unl.edu/courses/SOCI/206>); and permission.

The logic and design of sociological research: the nature of science and logic of social inquiry; epistemic relations; design of research problems; data collection techniques and sampling.

Credit Hours: 3**Course Format:** Lecture 3**Course Delivery:** Classroom

SOCI

Quantitative Methods of Social Research I[LINK \(http://bulletin.unl.edu/courses/SOCI/463\)](http://bulletin.unl.edu/courses/SOCI/463)**463/863**Crosslisted as *SRAM 863***Prereqs:**

SOCI 101 (<http://bulletin.unl.edu/courses/SOCI/101>), **205** (<http://bulletin.unl.edu/courses/SOCI/205>), and **206** (<http://bulletin.unl.edu/courses/SOCI/206>); and permission.

The logic and techniques of sociological analysis: techniques of scaling and index construction; contingency table analysis; measures of association; parametric and nonparametric statistical inference; and generalizations from systematic findings.

Credit Hours: 3**Course Format:** Lecture 3**Course Delivery:** Classroom

SOCI

Sociological Theory[LINK \(http://bulletin.unl.edu/courses/SOCI/464\)](http://bulletin.unl.edu/courses/SOCI/464)

464/864

Prereqs:
9 hrs sociology or related social sciences.

The conceptual structures of selected theorists and of the basis of theory construction and testing.

Credit Hours:	3
Course Delivery:	Classroom

SOCI **Survey Design and Analysis**

[LINK \(http://bulletin.unl.edu/courses/SOCI/465\)](http://bulletin.unl.edu/courses/SOCI/465)

465/865

Prereqs:
For SOCI 465: [SOCI 205 \(http://bulletin.unl.edu/courses/SOCI/205\)](http://bulletin.unl.edu/courses/SOCI/205) and [206 \(http://bulletin.unl.edu/courses/SOCI/206\)](http://bulletin.unl.edu/courses/SOCI/206).

This course is a prerequisite for: [SOCI 465 \(http://bulletin.unl.edu/courses/SOCI/465\)](http://bulletin.unl.edu/courses/SOCI/465)

For SOCI 865: None.

Basic issues related to the design and analysis of sample surveys. The basics of questionnaire construction, sampling, data collection, analysis and data presentation.

Credit Hours:	3
Course Delivery:	Classroom

SOCI **Sociology of Occupations and Professions**

[LINK \(http://bulletin.unl.edu/courses/SOCI/470\)](http://bulletin.unl.edu/courses/SOCI/470)

470/870

Prereqs:
9 hrs sociology or related social sciences.

Presentation of frameworks for occupations and professions; analysis of occupational structure and mobility in American society and its relation to adult socialization and career development; occupational and professional associations and society.

Credit Hours:	3
Course Delivery:	Classroom

SOCI **Sociology of Deviance**

[LINK \(http://bulletin.unl.edu/courses/SOCI/474\)](http://bulletin.unl.edu/courses/SOCI/474)

474/874

Prereqs:
9 hrs sociology or related social sciences.

[CRIM 413 \(http://bulletin.unl.edu/courses/CRIM/413\)](http://bulletin.unl.edu/courses/CRIM/413) and [SOCI 474 \(http://bulletin.unl.edu/courses/SOCI/474\)](http://bulletin.unl.edu/courses/SOCI/474) cannot both be applied toward the degree.

Theory and empirical research on conformity and deviance. Survey of the development of scholarly thinking on the nature and sources of deviance, societal reactions to deviance, and processes of social control.

Credit Hours:	3
Course Delivery:	Classroom

SOCI **Social Inequality: Stratification and Life Chances**

[LINK \(http://bulletin.unl.edu/courses/SOCI/480\)](http://bulletin.unl.edu/courses/SOCI/480)

480/880

Prereqs:
9 hrs sociology or related social sciences.

Structured inequalities, including social class, race/ethnicity, gender and age stratification. The intersections of these as institutionalized inequalities examined for their causes and effects on individuals and groups. Emphasis on the role of social power, economic resources and occupational structures in the nature of inequality and social mobility in the United States.

Credit Hours:	3
Course Delivery:	Classroom

SOCI

481/881**Minority Groups**Crosslisted as *ETHN 481/881*[LINK \(http://bulletin.unl.edu/courses/SOCI/481\)](http://bulletin.unl.edu/courses/SOCI/481)**Prereqs:****9 hrs sociology or related social sciences.**

Systematic examination of racial, ethnic, and other minority groups. History and present status of such groups, the origins of prejudice and discrimination, and the application of social science knowledge toward the elimination of minority group problems.

Credit Hours: 3**Course Delivery:** Classroom

SOCI

490/890**Sociology of Women**[LINK \(http://bulletin.unl.edu/courses/SOCI/490\)](http://bulletin.unl.edu/courses/SOCI/490)**Prereqs:****9 hrs social sciences.**

SOCI 200 (http://bulletin.unl.edu/courses/SOCI/200) is strongly recommended.

Evaluation and application of scholarly theory and research on women in their societal context. The nature and effects of sex stratification, gendered culture, institutionalized sexism, feminist theory and sociology of knowledge.

Credit Hours: 3**Course Delivery:** Classroom

SOCI

491/891**Political Sociology**[LINK \(http://bulletin.unl.edu/courses/SOCI/491\)](http://bulletin.unl.edu/courses/SOCI/491)**Prereqs:****9 hrs sociology or related social sciences.**

Application of sociological analysis to the problem of power; power structures and elite formation as they relate to democratic society and political extremism.

Credit Hours: 3**Course Delivery:** Classroom

SOCI

496/896**Special Topics in Crime, Deviance, and Social Control**[LINK \(http://bulletin.unl.edu/courses/SOCI/496\)](http://bulletin.unl.edu/courses/SOCI/496)**Prereqs:****Varies.**

See course description or registration guide. Topic for the term announced prior to early registration.

Variety of topics in crime, deviance, and social control.

Credit Hours: 3**Course Delivery:** Classroom

SOCI

498/898**Special Topics**[LINK \(http://bulletin.unl.edu/courses/SOCI/498\)](http://bulletin.unl.edu/courses/SOCI/498)**Prereqs:****Varies.**

See course description or registration guide. Topic for the term announced prior to early registration.

Wide variety of different topics.

Credit Hours: 3**Course Delivery:** Classroom

SOCI

897**Fieldwork in Sociology**[LINK \(http://bulletin.unl.edu/courses/SOCI/897\)](http://bulletin.unl.edu/courses/SOCI/897)

Prereqs:
Permission

Opportunity to apply concepts and methods in field setting and to obtain experience that will be valuable preparation for professional assignments in research, policy analysis, and administration.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

SOCI

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/SOCI/899\)](http://bulletin.unl.edu/courses/SOCI/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

SOCI

901

Seminar in Sociological Theory

[LINK \(http://bulletin.unl.edu/courses/SOCI/901\)](http://bulletin.unl.edu/courses/SOCI/901)

Prereqs:
Permission

Credit Hours:	3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

SOCI

902

Seminar in Research Methods

Crosslisted as *SRAM 902*

[LINK \(http://bulletin.unl.edu/courses/SOCI/902\)](http://bulletin.unl.edu/courses/SOCI/902)

Prereqs:
Permission

Credit Hours:	3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

SOCI

903

Seminar in Social Psychology

[LINK \(http://bulletin.unl.edu/courses/SOCI/903\)](http://bulletin.unl.edu/courses/SOCI/903)

Prereqs:
Permission

Credit Hours:	3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

SOCI

904

Seminar in Family

[LINK \(http://bulletin.unl.edu/courses/SOCI/904\)](http://bulletin.unl.edu/courses/SOCI/904)

Prereqs:
Permission

Credit Hours:	3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

SOCI

905

Seminar in Stratification, Class, and Inequality

[LINK \(http://bulletin.unl.edu/courses/SOCI/905\)](http://bulletin.unl.edu/courses/SOCI/905)

Prereqs:

Credit Hours:	3
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Permission

Max credits per degree: 9

Campus:

Course Delivery: Classroom

SOCI

906

Seminar in Race and Ethnicity

[LINK \(http://bulletin.unl.edu/courses/SOCI/906\)](http://bulletin.unl.edu/courses/SOCI/906)

Prereqs:
Permission

Credit Hours: 3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

SOCI

907

Seminar in Sex and Gender

[LINK \(http://bulletin.unl.edu/courses/SOCI/907\)](http://bulletin.unl.edu/courses/SOCI/907)

Prereqs:
Permission

Credit Hours: 3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

SOCI

908

Seminar in Crime and Deviance

[LINK \(http://bulletin.unl.edu/courses/SOCI/908\)](http://bulletin.unl.edu/courses/SOCI/908)

Prereqs:
Permission

Credit Hours: 3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

SOCI

995

Seminar in Professional Development

[LINK \(http://bulletin.unl.edu/courses/SOCI/995\)](http://bulletin.unl.edu/courses/SOCI/995)

P/N only. Professional development for careers in college teaching and research in sociology.

A. Teaching (1 cr)

B. Graduate Study and Career Research (1 cr)

D. Publications (1 cr)

Credit Hours: 1

Max credits per degree: 3

Campus:

Course Delivery: Classroom

SOCI

995A

Teaching

[LINK \(http://bulletin.unl.edu/courses/SOCI/995A\)](http://bulletin.unl.edu/courses/SOCI/995A)

Credit Hours: 1

Campus:

Course Delivery: Classroom

SOCI

995B

Graduate Study and Career Research

[LINK \(http://bulletin.unl.edu/courses/SOCI/995B\)](http://bulletin.unl.edu/courses/SOCI/995B)

Credit Hours: 1

Campus:

Course Delivery: Classroom

SOCI
995D

Publications

[LINK \(http://bulletin.unl.edu/courses/SOCI/995D\)](http://bulletin.unl.edu/courses/SOCI/995D)

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

SOCI
996

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/SOCI/996\)](http://bulletin.unl.edu/courses/SOCI/996)

Prereqs:
Permission

Credit Hours:	1-9
Campus:	
Course Delivery:	Classroom

SOCI
998

Special Topics Seminar

[LINK \(http://bulletin.unl.edu/courses/SOCI/998\)](http://bulletin.unl.edu/courses/SOCI/998)

Prereqs:
Permission

Credit Hours:	3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

SOCI
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SOCI/999\)](http://bulletin.unl.edu/courses/SOCI/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

SRAM
818

Data Collection Methods

Crosslisted as *SOCI 818*

[LINK \(http://bulletin.unl.edu/courses/SRAM/818\)](http://bulletin.unl.edu/courses/SRAM/818)

Effects of various data collection methods on survey errors. The strengths, weaknesses, and challenges of data collection modes and mixed-mode methods. Processes underlying data collection and practical challenges that arise with each mode; coverage error; nonresponse error; interviewer effects and training; timing; and mode effects.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SRAM
819

Applied Sampling

Crosslisted as *SOCI 819*

[LINK \(http://bulletin.unl.edu/courses/SRAM/819\)](http://bulletin.unl.edu/courses/SRAM/819)

Design of probability samples, sampling populations of humans and unique challenges posed by such populations, restricted by cost and available sampling frames. Simple random sampling, stratification, cluster sampling, systematic sampling, multistage sampling, and probability proportional to size sampling, area probability sampling, and telephone samples.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Sociology). (<http://www.unl.edu/gradstudies/prospective/programs/Sociology>)

Department Chair: Julia McQuillan, Ph.D.

Graduate Committee: Assistant Professor Falci (Chair); Professor Whitbeck; Assistant Professors Cheadle, Smyth

The department offers graduate courses leading to the degrees of master of arts and doctor of philosophy. Applicants are expected to take the general test of the Graduate Record Examination and have their scores submitted as part of their application. Facility in particular foreign languages and/or special research tools may be required by the supervisory committee when they are particularly relevant to a student's chosen area of specialization. Students are required to take SOCI 855, 862, 863, and 864. All candidates for advanced degrees are required to take SOCI 995 and teach as part of their program.

Prerequisites.

The prerequisite for all 800-level courses in sociology, except cross-listed courses, is 9 hours of sociology or related social sciences.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Sociology). (<http://www.unl.edu/gradstudies/prospective/programs/Sociology>)

Retrieved from "<http://bulletin.unl.edu/graduate/Sociology> (<http://bulletin.unl.edu/graduate/Sociology>)"

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Education

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- [Educational Psychology \(EDPS\) \(#EDPS\)](#)
- [Special Education \(SPED\) \(#SPED\)](#)
- [Speech-Language Pathology and Audiology \(SLPA\) \(#SLPA\)](#)
- [Teaching, Learning and Teacher Education \(TEAC\) \(#TEAC\)](#)

Ω

Courses for EDUC (EDUC)

SPED

892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or parallel; [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

Ω

Courses for CEHS (CEHS)

CEHS

467/867

International Cultures Experience in the Local Community

[LINK \(http://bulletin.unl.edu/courses/CEHS/467\)](http://bulletin.unl.edu/courses/CEHS/467)

Lecture and discussion will be required as part of the field discussion. Field hours will be assigned at the rate of three hours per week.

An international cultural experience in the local community by providing field-based learning experiences in community centers, schools, and human services agencies in the local community. The course will study immigrant families in the U.S. through observing and participating in community activities and through readings, discussions, and reflective journaling that integrate lessons from the field with theory and research.

Credit Hours:	3
Course Format:	Field 3
Course Delivery:	Classroom, Web

CEHS

International Experience in Communities, Schools, and Families [LINK \(http://bulletin.unl.edu/courses/CEHS/494\)](http://bulletin.unl.edu/courses/CEHS/494)

494/894

Lecture and discussion will be required as part of the field experience. Field hours will be assigned at the rate of two hours per week per student credit hour.

Instructor-guided experiences of a culture in another nation in order to critically examine individual and cross-cultural differences in values, lifestyles, education, history and culture of international families, schools, and communities.

Credit Hours:	1-6
Max credits per semester:	3
Max credits per degree:	6
Course Format:	Field 2
Course Delivery:	Classroom

Courses for EDAD (EDAD)

EDAD Foundations of Human Resource Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/421\)](http://bulletin.unl.edu/courses/EDAD/421)

421/821

Lays the foundation for further study of Human Resource Development (HRD) by examining the knowledge of HRD professionals, the roles they play, and the organizational settings in which HRD occurs. The design and development of education and training programs, how change occurs in organizations, how career development can optimize the match between individual and organizational goals and needs, and how to improve performance in organizations by analyzing performance opportunities and designing employee training to address these opportunities.

Credit Hours:	3
Course Delivery:	Classroom

EDAD Instructional Design in Human Resource Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/422\)](http://bulletin.unl.edu/courses/EDAD/422)

422/822

Examines the role of instruction for enhancing human learning and performance in organizations. The analysis of performance problems/opportunities and design of interventions for learning and performance improvement. The essential components of instruction, selecting instructional methods and media to achieve program objectives, the transfer of learning, and evaluating the effectiveness of instruction. The performance enhancing potential of systematically linking needs analysis, instructional design, and program evaluation.

Credit Hours:	3
Course Delivery:	Classroom

EDAD Cross-Cultural Leadership Studies

[LINK \(http://bulletin.unl.edu/courses/EDAD/801\)](http://bulletin.unl.edu/courses/EDAD/801)

801

Prereqs:
Permission

For those interested in exploring leadership and leadership issues from a cross-cultural perspective. Students construct their understanding of different cultural perspectives on leadership through readings, interviews, and field trips. Provides students with a valuable perspective on their own and other cultural perspectives through the comparison of cultural viewpoints. Native American understanding of leadership.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD Practicum in Educational Administration and Supervision

[LINK \(http://bulletin.unl.edu/courses/EDAD/811\)](http://bulletin.unl.edu/courses/EDAD/811)

811

Prereqs:
Permission

May be repeated for credit. Rating and supervision of teachers; principles and procedures in the development of school policies; selection and

Credit Hours:	3-4
Max credits per degree:	8
Campus:	

EDAD **813** Administration in Physical Education and Athletics

[LINK \(http://bulletin.unl.edu/courses/EDAD/813\)](http://bulletin.unl.edu/courses/EDAD/813)

Organization and administration of physical education and athletic programs in colleges and school systems. Practices and policies as they relate to various situations and problems and in the theoretical base for these practices and policies.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD **814** Risk Management for Sport Facilities

[LINK \(http://bulletin.unl.edu/courses/EDAD/814\)](http://bulletin.unl.edu/courses/EDAD/814)

Legal and risk management aspects of construction, supervision, and management of sport, athletic, and recreation indoor and outdoor facilities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD **830** Administrative Theory in Educational Organizations

[LINK \(http://bulletin.unl.edu/courses/EDAD/830\)](http://bulletin.unl.edu/courses/EDAD/830)

Introduction to classic and contemporary administrative theory as applied to educational organizations. The theoretical nature of the course content is relevant to those with an interest in a broad variety of educational institutions. General organizational theory, organizational models, historical schools of administrative theory, authority, power, motivation, and leadership. Frequently students are involved in studying problems of practice as a means of testing theory.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD **833** Educational Finance

[LINK \(http://bulletin.unl.edu/courses/EDAD/833\)](http://bulletin.unl.edu/courses/EDAD/833)

Critical analysis of the political and economic elements impacting K-12 school finance. Content and activities address both building and district level concerns with an emphasis on principles, programs, and trends in school finance.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD **835** Business Management of Schools

[LINK \(http://bulletin.unl.edu/courses/EDAD/835\)](http://bulletin.unl.edu/courses/EDAD/835)

Allocation and management of fiscal resources including aspects of financial planning and reporting, budgeting and accounting procedures, purchasing, risk management and insurance, investing and bond issues, and auxiliary service.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD **836** Planning for Change

[LINK \(http://bulletin.unl.edu/courses/EDAD/836\)](http://bulletin.unl.edu/courses/EDAD/836)

Rationale for planning in a changing environment will be explored; the theoretical base for planning presented; strategic, futuristic planning and operational planning explored; the development of planning strategies, techniques and procedures; the process of evaluation, feedback and revisions explored; and the management of the change process analyzed.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

837**Education Law**[LINK \(http://bulletin.unl.edu/courses/EDAD/837\)](http://bulletin.unl.edu/courses/EDAD/837)

Evolution, principles, and practice of education law in relation to local, state, and national units of organization. Education law of Nebraska.

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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EDAD

838**Educational Surveys**[LINK \(http://bulletin.unl.edu/courses/EDAD/838\)](http://bulletin.unl.edu/courses/EDAD/838)

School systems and its educational program in terms of needs of attendance area served. Organization and interpretation of pertinent data and formulation of recommendations for improvement of educational systems. Long-range planning.

Credit Hours:	2-3
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Campus:	
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Course Delivery:	Classroom
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EDAD

839**Educational Facilities**[LINK \(http://bulletin.unl.edu/courses/EDAD/839\)](http://bulletin.unl.edu/courses/EDAD/839)

Techniques for planning educational facilities through use of surveys, educational specifications, and standards. Function of the school administrator in school facilities planning, construction, and utilization.

Credit Hours:	2-3
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Campus:	
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Course Delivery:	Classroom
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EDAD

842**College Students in America**[LINK \(http://bulletin.unl.edu/courses/EDAD/842\)](http://bulletin.unl.edu/courses/EDAD/842)

This course is designed to provide students an understanding of a broad range of facts and issues pertaining to undergraduate college students in America.

Credit Hours:	3
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Course Format:	Lecture 2.33
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Course Delivery:	Classroom
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EDAD

843**Counseling Principles for Educational Administrators**[LINK \(http://bulletin.unl.edu/courses/EDAD/843\)](http://bulletin.unl.edu/courses/EDAD/843)

This is an introductory level counseling course designed specifically for educational administrators. It is not intended to prepare individuals to become professional counseling practitioners. It offers a broad overview of counsel principles. This is a theory-to-practice course.

Credit Hours:	3
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Course Format:	Lecture 3
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Course Delivery:	Classroom
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EDAD

851**Faculty and Staff Appraisal**[LINK \(http://bulletin.unl.edu/courses/EDAD/851\)](http://bulletin.unl.edu/courses/EDAD/851)

Faculty and support staff in P-12 schools: appraisal, professional learning communities, high standards/high performance and accountability.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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EDAD

852**School Culture and Student Behavior**[LINK \(http://bulletin.unl.edu/courses/EDAD/852\)](http://bulletin.unl.edu/courses/EDAD/852)

School culture and student behavior in P-12 schools. Personalized teaching and learning environments that address student diversity, needs and interests.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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EDAD

855**Teaching Learners to Learn**Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

856**Supervising Special Education**Crosslisted as *SPED 856*[LINK \(http://bulletin.unl.edu/courses/EDAD/856\)](http://bulletin.unl.edu/courses/EDAD/856)

For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

857**Special Education Administration**Crosslisted as *SPED 857*[LINK \(http://bulletin.unl.edu/courses/EDAD/857\)](http://bulletin.unl.edu/courses/EDAD/857)

Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

858**Special Education Law**Crosslisted as *SPED 858*[LINK \(http://bulletin.unl.edu/courses/EDAD/858\)](http://bulletin.unl.edu/courses/EDAD/858)

Body of law that pertains to the organization, administration, and implementation of special education programs in PreK-12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

EDAD

870**Constitutional Law I**Crosslisted as *LAW 609G*[LINK \(http://bulletin.unl.edu/courses/EDAD/870\)](http://bulletin.unl.edu/courses/EDAD/870)

Structure of the federal government, including the history and judicial interpretation of the Constitution, federalism, interstate commerce, due process, equal protection, and separation of powers.

Credit Hours: 1-4**Campus:****Course Delivery:** Classroom

EDAD

871**Constitutional Law II**Crosslisted as *LAW 732G*[LINK \(http://bulletin.unl.edu/courses/EDAD/871\)](http://bulletin.unl.edu/courses/EDAD/871)

Emphasizes protected individual civil liberties. The origin and modern applicability of the state action concept in constitutional litigation; the scope of congressional power to enforce the post Civil War amendments; freedom of speech, association, and press; and constitutional principles enforcing the first amendment's command that "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof."

Credit Hours: 1-4**Campus:****Course Delivery:** Classroom

EDAD

872**Introduction to Law, Legal Process, and Legislation**[LINK \(http://bulletin.unl.edu/courses/EDAD/872\)](http://bulletin.unl.edu/courses/EDAD/872)

How law is made and changed, the role of the individual, the business corporation, the private association, the administrative agency, the voting public, the legislature, and the courts in making and changing law.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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EDAD

874**Torts I**Crosslisted as *LAW 503G*[LINK \(http://bulletin.unl.edu/courses/EDAD/874\)](http://bulletin.unl.edu/courses/EDAD/874)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours:	1-6
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Max credits per degree:	6
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Campus:	
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Course Delivery:	Classroom
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EDAD

875**Torts II**[LINK \(http://bulletin.unl.edu/courses/EDAD/875\)](http://bulletin.unl.edu/courses/EDAD/875)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours:	1-6
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Max credits per degree:	6
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Campus:	
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Course Delivery:	Classroom
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EDAD

880B**Designing Instructional Technology K-12**[LINK \(http://bulletin.unl.edu/courses/EDAD/880B\)](http://bulletin.unl.edu/courses/EDAD/880B)

Credit Hours:	1-3
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Max credits per degree:	3
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Campus:	
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Course Delivery:	Classroom
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EDAD

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/890\)](http://bulletin.unl.edu/courses/EDAD/890)

Refer to *Workshop Seminars in Education* under the "Education" section of this bulletin.

Campus:	
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Course Delivery:	Classroom
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EDAD

893**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/893\)](http://bulletin.unl.edu/courses/EDAD/893)

Refer to *Workshop Seminars in Education* under the "Education" section of this bulletin.

Campus:	
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Course Delivery:	Classroom
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EDAD

896**Independent Study**[LINK \(http://bulletin.unl.edu/courses/EDAD/896\)](http://bulletin.unl.edu/courses/EDAD/896)

Prereqs:

Credit Hours:	1-6
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Permission

Selected topic with the direction and guidance of a staff member.

Campus:	
Course Delivery:	Classroom

EDAD
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/EDAD/899\)](http://bulletin.unl.edu/courses/EDAD/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

EDAD
901

System-Level School Improvement

[LINK \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901)

This course is a prerequisite for: [EDAD 902 \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

Knowledge and skills required for system-level leaders to bring about school improvement and enhance student achievement. Creating systems that engage the public, performing in complex political environments, and delivering needed services to schools and classrooms.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
902

Data for Action Planning

[LINK \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

Prereqs:
[EDAD 901 \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901).

EDAD 902 (http://bulletin.unl.edu/courses/EDAD/902) requires developing an initial school improvement plan.

Assessment theory and types of assessments used to measure student performance relative to a school improvement goal. Relationships between profile data and baseline data, locally developed classroom assessments, and post data pertaining to school improvement goals and action plans.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
903

Issues in Community Relations

[LINK \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903)

This course is a prerequisite for: [EDAD 904 \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

Principles of community relations and public relations; development of school and community understanding; collaboration of educators and community agents and agencies; communication tools and evaluation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
904

Analysis in Continuous Improvement

[LINK \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

Prereqs:
[EDAD 903 \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903).

EDAD 904 (http://bulletin.unl.edu/courses/EDAD/904) requires generating recommendations for proceeding into the next cycle of school improvement and conducting a personal self-analysis of improvement process skills and obtain information from supervisors and/or colleagues regarding abilities as a

Analyze how staff attitudes and behaviors are impacted through the improvement process.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

905**Issues in Governance of Educational Institutions**[LINK \(http://bulletin.unl.edu/courses/EDAD/905\)](http://bulletin.unl.edu/courses/EDAD/905)

Issues in the governance of K–12 schools including administrator–school board roles and relationships.

Credit Hours:	1–3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

EDAD

906**Issues in System Level Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/906\)](http://bulletin.unl.edu/courses/EDAD/906)

Prereqs:
Masters degree or equivalent.

Selected system level issues faced by pre–K to grade 12 school administrators.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

907**Issues in Educational Politics and Policies**[LINK \(http://bulletin.unl.edu/courses/EDAD/907\)](http://bulletin.unl.edu/courses/EDAD/907)

Analyze and evaluate policy processes involved in making choices; develop understanding, apply and evaluate knowledge about key political concepts and theories to the analysis of educational policy issues; analyze and evaluate issues as points of political conflict between institutional structures with competing interests; understand people as the actors in roles they occupy in the political system.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

908/929**Seminar in Adult and Continuing Education**[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Crosslisted as *EDPS 929*

Credit Hours:	1–6
Campus:	
Course Delivery:	Classroom

EDAD

909**Seminar in Human Resource Development**[LINK \(http://bulletin.unl.edu/courses/EDAD/909\)](http://bulletin.unl.edu/courses/EDAD/909)

Prereqs:
[EDAD 821 \(http://bulletin.unl.edu/courses/EDAD/821\)](http://bulletin.unl.edu/courses/EDAD/821) or [822 \(http://bulletin.unl.edu/courses/EDAD/822\)](http://bulletin.unl.edu/courses/EDAD/822)

Current research and theory within the field of human resource development, broadly defined. Stresses key problems affecting the training, development, and education of human resources within organizational settings.

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

EDAD

910**The Higher Education Environment**[LINK \(http://bulletin.unl.edu/courses/EDAD/910\)](http://bulletin.unl.edu/courses/EDAD/910)

Universities are adaptive, living systems interacting with their environment. Equips participants with the skills required to analyze and assess the environment of higher education institutions. Environment concepts, components and structures are studied together with analysis techniques and methodological approaches to future study.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
912A

Educational Leadership in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/912A\)](http://bulletin.unl.edu/courses/EDAD/912A)

Strategic thinking, application of leadership theories in the educational setting. Develop a clear personal philosophy of leadership and engage in collaborative active-learning. Multi-media simulations and/or scenarios and role playing to examine options, consequences, and leadership effectiveness in decision-making.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
912B

Educational Leadership in Community Colleges

[LINK \(http://bulletin.unl.edu/courses/EDAD/912B\)](http://bulletin.unl.edu/courses/EDAD/912B)

Issues facing community college leaders and the knowledge, skills, and competencies necessary to provide effective leadership in the community college setting. Case studies of community colleges, combined with the literature on community college leadership, and active learning opportunities to examine current practices and develop a personal philosophy of leadership.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
921

Administrative Issues in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/921\)](http://bulletin.unl.edu/courses/EDAD/921)

Introduction to contemporary issues in the administration of higher education with a focus on the scholarly literature, a comparative analysis of administration in types of institutions, leadership and planning, institutional and environmental issues, and selected topics.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
922

Finance in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/922\)](http://bulletin.unl.edu/courses/EDAD/922)

Federal and state government funding, institutional planning, technological and community influences, human resources finance, budgeting, and sources of financial support as they relate to higher education institutions and agencies.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD
923

The Community/Junior College

[LINK \(http://bulletin.unl.edu/courses/EDAD/923\)](http://bulletin.unl.edu/courses/EDAD/923)

Designed particularly for those interested in upper secondary and college levels. Junior college movement; relationship of movement to provisions for an adequate educational program; functions of the junior college; legal status and basis for extension of junior college; problems of organization, administration, and curriculum.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDAD
924

Administration of Higher Education Instructional Programs

[LINK \(http://bulletin.unl.edu/courses/EDAD/924\)](http://bulletin.unl.edu/courses/EDAD/924)

Administration of higher education instructional programs. Exploration of curricular issues including an assessment of program quality and reputation, program reallocations, retrenchments, and expansions.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

925**Law and Higher Education**[LINK \(http://bulletin.unl.edu/courses/EDAD/925\)](http://bulletin.unl.edu/courses/EDAD/925)

Examination of legal principles applicable to higher education institutions. Overview of the legal system, higher education institutions as legal entities, authority for governance and administration, faculty rights and responsibilities, student rights and responsibilities, institutional and personal liability, and other selected issues.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

926**The American Professoriate: An Administrative Perspective**[LINK \(http://bulletin.unl.edu/courses/EDAD/926\)](http://bulletin.unl.edu/courses/EDAD/926)

Contemporary faculty issues in postsecondary education institutions from the perspective of college administrators. Current status of faculty, assigning faculty workloads and monitoring performance levels, evaluating faculty performance, structuring development activities, and special topics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

931**Higher Education Information Systems**[LINK \(http://bulletin.unl.edu/courses/EDAD/931\)](http://bulletin.unl.edu/courses/EDAD/931)

Foundation in management information systems. Issues in information systems, current research and writings, key terms, and how information systems impacts organizational culture, business processes, work-flow, and overall operations of an institution. The roles in the application, analysis, and management of higher education administration technology.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

932**Global Issues in Higher Education**[LINK \(http://bulletin.unl.edu/courses/EDAD/932\)](http://bulletin.unl.edu/courses/EDAD/932)

Selected issues affecting global educational policies and practices.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

933**Strategic Planning**[LINK \(http://bulletin.unl.edu/courses/EDAD/933\)](http://bulletin.unl.edu/courses/EDAD/933)

EDAD 933 (http://bulletin.unl.edu/courses/EDAD/933) requires the student to analyze their respective institution's planning process and plan, and to participate in a simulation activity that reinforces the principles and practices of strategic planning.

System theory, practice and problem solving. The strategic planning process in higher education. Models of strategic planning.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

934**Teaching and Learning in the Community College**[LINK \(http://bulletin.unl.edu/courses/EDAD/934\)](http://bulletin.unl.edu/courses/EDAD/934)

Develop comprehensive understanding of five aspects of the community college: Curricular missions in general education, transfer education, career education, remedial/developmental education and community education; faculty and student populations; exemplary teaching and assessment of student learning outcomes; program and curriculum development; and human resources aspects related to instructional programs in hiring faculty and providing faculty development programs.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

935**Workforce, Economic, and Community Development**[LINK \(http://bulletin.unl.edu/courses/EDAD/935\)](http://bulletin.unl.edu/courses/EDAD/935)

Workforce, economic and community development role of higher education within the broader context of recent economic, social, and technological changes in communities, society, and the economy. Applicable to higher education in general with an emphasis on the example of two-year community colleges.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

948**Instructional Leadership: Emerging Trends and Practices**[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)Crosslisted as *TEAC 948*

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

956**Employment Law Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/956\)](http://bulletin.unl.edu/courses/EDAD/956)Crosslisted as *LAW 759G*

Selected current national and state legal issues pertaining to private and public employment.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

959**Law and Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/959\)](http://bulletin.unl.edu/courses/EDAD/959)Crosslisted as *LAW 695G*

Current legal issues of national significance relating to educational institutions; analysis of constitutional provisions, statutes, and court decisions affecting education; separation of church and state; rights of equality; student rights, responsibilities, and discipline; application of criminal and juvenile provisions; use of school property; control of the curriculum and extracurricular activities; contractual and tort liability; hiring, collective actions, tenure, outside activities, discharge, and retirement of teachers; confidentiality; accrediting agencies; and similar current legal matters.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

960**Public Employment Law**[LINK \(http://bulletin.unl.edu/courses/EDAD/960\)](http://bulletin.unl.edu/courses/EDAD/960)

Legal issues relating to public employment with particular emphasis on public schools and colleges; collective bargaining by public employees, impasse, and resolution of public employee disputes; grievances, arbitration, and enforcement of agreements; civil rights of public employees; and laws applicable to public employment apart from collective bargaining, such as discrimination acts, wage and hour laws, retirement plans, and public records.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

961**Trial Advocacy**[LINK \(http://bulletin.unl.edu/courses/EDAD/961\)](http://bulletin.unl.edu/courses/EDAD/961)

Prereqs:
[LAW 646G \(http://bulletin.unl.edu/courses/LAW/646G\)](http://bulletin.unl.edu/courses/LAW/646G).

Credit Hours:	1-4
Campus:	

Students perform weekly exercises which are videotaped and critiqued and will try a case. Fundamentals of trial practice. Emphasis on questioning witnesses, selecting and addressing the jury, and admitting items into evidence.

Course Delivery: Classroom

EDAD

963

Legislation Seminar

Crosslisted as *LAW 777G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/963\)](http://bulletin.unl.edu/courses/EDAD/963)

Development of further skills in drafting and interpreting statutes, understanding legislative processes and decision making, and evaluating the role of legislation in governmental regulation. Opportunity for in-depth study of subjects pertaining to or involving legislation, centering on subjects considered by the Nebraska Legislature and the Nebraska legislative process.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

964

Local Government Law

Crosslisted as *LAW 788G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/964\)](http://bulletin.unl.edu/courses/EDAD/964)

Law of local government units with emphasis on current problems in the operation and administration of local government, models and theories of local government.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

966

Seminar in Educational Administration

[LINK \(http://bulletin.unl.edu/courses/EDAD/966\)](http://bulletin.unl.edu/courses/EDAD/966)

Prereqs:
Permission

Education administration problems with an analysis of research and literature pertaining to these problems.

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDAD

968

Education Law Seminar

Crosslisted as *LAW 621G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/968\)](http://bulletin.unl.edu/courses/EDAD/968)

Selected current national and state legal issues pertaining to education.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

970

Criminal Law

Crosslisted as *LAW 508G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/970\)](http://bulletin.unl.edu/courses/EDAD/970)

Substantive criminal law, focusing on the theoretical foundations, general principles, and doctrines that govern the rules of liability and defenses, both in the common law tradition and under the Model Penal Code.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

971

Evidence

Crosslisted as *LAW 646G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/971\)](http://bulletin.unl.edu/courses/EDAD/971)

Relevancy and admission of evidence, including hearsay, opinions, privileges, other exclusionary rules, examination of witnesses, judicial notice, and physical evidence.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

973**Jurisprudence**Crosslisted as *LAW 672G*[LINK \(http://bulletin.unl.edu/courses/EDAD/973\)](http://bulletin.unl.edu/courses/EDAD/973)

What is good and what is bad about law; the judicial process; principal schools of jurists; theories of the nature of law and the legal order; the American social system and the law; obligations to obey or to disobey the law; and ideas of justice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

976**Legal Control of Discrimination**Crosslisted as *LAW 680G*[LINK \(http://bulletin.unl.edu/courses/EDAD/976\)](http://bulletin.unl.edu/courses/EDAD/976)

Selected legal issues pertaining to the legal control of discrimination.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

977**Constitutional History**Crosslisted as *LAW 619/619G*[LINK \(http://bulletin.unl.edu/courses/EDAD/977\)](http://bulletin.unl.edu/courses/EDAD/977)

American constitutional history with a focus on "transformative" moments at which the Constitution and the nature of American politics and government changed. American Revolution and the framing of the Constitution and Bill of Rights, Civil War and Reconstruction, and the New Deal. Exploration of the courts and how they stood on history and original intent when they interpret the Constitution.

Credit Hours:	1-4
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDAD

978**Mass Communications Law**Crosslisted as *LAW 649G*[LINK \(http://bulletin.unl.edu/courses/EDAD/978\)](http://bulletin.unl.edu/courses/EDAD/978)

In-depth focus on the first amendment. Includes legal distinctions between the print and broadcast media, free press and fair trial, access to media, and licit and illicit ideas.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

979**Seminar in College Student Personnel Work**Crosslisted as *EDPS 979*[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research literature, some field experiences, and in-depth examination of special topics.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDAD

981**Introduction to Research**[LINK \(http://bulletin.unl.edu/courses/EDAD/981\)](http://bulletin.unl.edu/courses/EDAD/981)

A written report is required. Investigation and analysis of current problems in education administration and supervision.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD

988**Dissertation Proposal Development**[LINK \(http://bulletin.unl.edu/courses/EDAD/988\)](http://bulletin.unl.edu/courses/EDAD/988)**Prereqs:**

Credit Hours:	3
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Admission to a doctoral program

Intended for students who are working on the development of their dissertation proposal. Component parts of the dissertation proposal. Students from all areas of Teachers College and the University of Nebraska who are in the process of developing their proposal will find this course to be of use. Typically the course should be taken after the research tools have been completed.

Campus:

Course Delivery: Classroom

EDAD

989

Survey of Administrative Research

[LINK \(http://bulletin.unl.edu/courses/EDAD/989\)](http://bulletin.unl.edu/courses/EDAD/989)

Intended primarily for students of education who are candidates for doctoral degrees. Readings, discussions, and an analysis of educational problems and research.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/990\)](http://bulletin.unl.edu/courses/EDAD/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD

991

Field Studies in Education

Crosslisted as NUTR 991, TEAC 991

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDAD

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/993\)](http://bulletin.unl.edu/courses/EDAD/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/995\)](http://bulletin.unl.edu/courses/EDAD/995)

Prereqs:
Permission

Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice. Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor.

Credit Hours: 3

Max credits per degree: 18

Campus:

Course Delivery: Classroom

EDAD

998

Seminar: Internship in Educational Administration

[LINK \(http://bulletin.unl.edu/courses/EDAD/998\)](http://bulletin.unl.edu/courses/EDAD/998)

Prereqs:
Permission

Opportunity for educational administrators to gain an understanding of administering changes or innovations, and to obtain supervised field experience. Consideration will be given antecedents of change, change models, the role of government, forces that restrict or stimulate change, tools to implement change, and evaluation.

Credit Hours:	1-6
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDAD

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/EDAD/999\)](http://bulletin.unl.edu/courses/EDAD/999)

999

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

EDPS

Historical Methods in Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)

Crosslisted as *EDAD 900J*

900J

Prereqs:
EDPS *800 or equivalent; EDPS 459
<http://bulletin.unl.edu/courses/EDPS/459/859>
<http://bulletin.unl.edu/courses/EDPS/859> or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

Seminar in College Student Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)

Crosslisted as *EDAD 980*

977

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED

Special Topics in Education

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

892

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC

Coordination in Occupational Training Programs

[LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)

Crosslisted as *EDAD 825*

425/825

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of

Credit Hours:	1-3
Course Delivery:	Classroom



Courses for EDPS (EDPS)

ANTH

478/878

Pro-seminar in Latin American Studies

[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)

Crosslisted as HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878

Prereqs:

Junior standing and permission.

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Credit Hours:	3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

EDAD

855

Teaching Learners to Learn

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Crosslisted as EDPS 855, NUTR 855, SPED 855, TEAC 855

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

908/929

Seminar in Adult and Continuing Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Crosslisted as EDPS 929

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD

979

Seminar in College Student Personnel Work

[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Crosslisted as EDPS 979

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research literature, some field experiences, and in-depth examination of special topics.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS

451/851

Psychology of Adolescence

[LINK \(http://bulletin.unl.edu/courses/EDPS/451\)](http://bulletin.unl.edu/courses/EDPS/451)

Mental, social, and emotional development of boys and girls during the adolescent period.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

454/854

Human Cognition and Instruction

[LINK \(http://bulletin.unl.edu/courses/EDPS/454\)](http://bulletin.unl.edu/courses/EDPS/454)

Cognitive psychology and its applications in instruction. Memory, problem solving, cognitive process in reading, research approaches, and applications to teaching.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

Statistical Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)

459/859

This course is a prerequisite for: [EDPS 800 \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800), [EDPS 470 \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470), [NUTR 486 \(http://bulletin.unl.edu/courses/NUTR/486\)](http://bulletin.unl.edu/courses/NUTR/486), [EDPS 900A \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A), [EDPS 900B \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B), [EDPS 900D \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D), [EDPS 900I \(http://bulletin.unl.edu/courses/EDPS/900I\)](http://bulletin.unl.edu/courses/EDPS/900I), [EDPS 900K \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	3 [?]

Computation and interpretation of measures of central position, variability, and correlation; introduction to sampling, probability, and tests of significance.

EDPS

Psychology of Disability

[LINK \(http://bulletin.unl.edu/courses/EDPS/462\)](http://bulletin.unl.edu/courses/EDPS/462)

462/862

Research and theoretical literature related to the relationship between various disabling conditions and the psychological functioning of the person with disability.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

Introduction to Applied Behavior Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/463\)](http://bulletin.unl.edu/courses/EDPS/463)

463/863

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Research methods and findings, concepts, and principles of operant conditioning as related to the experimental analysis of human behavioral events and to the development of behavior engineering technologies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDPS

Practices in Counseling and Personnel Services

[LINK \(http://bulletin.unl.edu/courses/EDPS/465\)](http://bulletin.unl.edu/courses/EDPS/465)

465/865

Basic practices and related research in counseling and helping practices in educational or other youth-serving agencies. Specialized applications to populations presenting unique problems are offered in sections B through L. B. Special Practices for Handicapped Children and Youth (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). D. Special Practices for Exceptionally Talented and Gifted (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). E. Special Practices in the Elementary School (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). K. Special Practices for Vocational Education/Development Programs (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). L. Special Practices for Community Helpers Working with Adults (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A).

Credit Hours:	1-8
Max credits per degree:	8
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

469/869

Psychopathological Disorders of Childhood and Adolescence[LINK \(http://bulletin.unl.edu/courses/EDPS/469\)](http://bulletin.unl.edu/courses/EDPS/469)

Investigation of the genesis, course, classification, and treatment of function and organic pathologies found in children and adolescents.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

470/870

Introduction to Educational and Psychological Measurement[LINK \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470)**Prereqs:**

[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859)
 [\(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent.

Introduction to the construction, evaluation, and ethical use of measurement instruments commonly used in education and psychology. Test construction principles, item analysis, reliability, validity, ethical issues in testing, and evaluation of standardized tests.

Credit Hours:	3
Course Delivery:	Classroom

EDPS

496/896

Directed Field Experience[LINK \(http://bulletin.unl.edu/courses/EDPS/496\)](http://bulletin.unl.edu/courses/EDPS/496)**Prereqs:**

Permission.

Seminar on current issues or topics in educational psychology. Topics vary.

Credit Hours:	1-24
Course Delivery:	Classroom

EDPS

498/898

Special Topics[LINK \(http://bulletin.unl.edu/courses/EDPS/498\)](http://bulletin.unl.edu/courses/EDPS/498)**Prereqs:**

Permission.

Seminar on current issues or topics in educational psychology. Topics vary.

Credit Hours:	1-6
Max credits per semester:	6
Course Delivery:	Classroom

EDPS

800

Foundations of Educational Research[LINK \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800)**Prereqs:**

[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459/859\)](http://bulletin.unl.edu/courses/EDPS/459/859)
 [\(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent or parallel
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Purposes and characteristics of research process, selection of research problems in education and social sciences, critical review of published research, research ethics and institutional review, sampling methods, threats to validity in research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

845

Computer-Assisted Research Data Analysis[LINK \(http://bulletin.unl.edu/courses/EDPS/845\)](http://bulletin.unl.edu/courses/EDPS/845)**Prereqs:**

One statistics course beyond [EDPS 859](http://bulletin.unl.edu/courses/EDPS/859)
 [\(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Pass/No Pass only.

Statistical software packages for both mainframe and microcomputers. How to develop and manage data files; how to transfer data files between computers; and principles of data transformation and selection.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

846**Foundations of Health Behavior**Crosslisted as *NUTR 846*[LINK \(http://bulletin.unl.edu/courses/EDPS/846\)](http://bulletin.unl.edu/courses/EDPS/846)

The epidemiological, developmental and cognitive foundation of health-related behaviors and identifies opportunities for health promotion and education.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

847**Theoretical Models of Health Behavior Change**Crosslisted as *NUTR 847*[LINK \(http://bulletin.unl.edu/courses/EDPS/847\)](http://bulletin.unl.edu/courses/EDPS/847)

Application of widely used theoretical models of health behavior change. Specification of behaviors and development and evaluation of theory-based interventions to reduce health-related risks.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

850**Child Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850)

This course is a prerequisite for: [EDPS 960 \(http://bulletin.unl.edu/courses/EDPS/960\)](http://bulletin.unl.edu/courses/EDPS/960), [EDPS 961 \(http://bulletin.unl.edu/courses/EDPS/961\)](http://bulletin.unl.edu/courses/EDPS/961), [EDPS 962 \(http://bulletin.unl.edu/courses/EDPS/962\)](http://bulletin.unl.edu/courses/EDPS/962), [EDPS 963 \(http://bulletin.unl.edu/courses/EDPS/963\)](http://bulletin.unl.edu/courses/EDPS/963)

Advanced study of the behavior and development of preschool and elementary school children.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

853**Psychological Assessment I**[LINK \(http://bulletin.unl.edu/courses/EDPS/853\)](http://bulletin.unl.edu/courses/EDPS/853)

Prereqs:
[EDPS 870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870) or equivalent

This course is a prerequisite for: [EDPS 956 \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Basic assessment and testing skills including "behavioral observation", psychometric issues, intake/diagnostic interviewing, psychological testing, test interpretation feedback, and integrative report writing. Commonly used screening instruments, personality tests, career interest inventories, and symptom-based tests.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

860**Applications of Selected Advanced Statistics**[LINK \(http://bulletin.unl.edu/courses/EDPS/860\)](http://bulletin.unl.edu/courses/EDPS/860)

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Variety of parametric and nonparametric analyses, including analysis of variance (completely randomized design and various factorial designs), regression analysis, analysis of covariance, full model stepwise multiple regression, chi square Mann-Whitney U, and Wilcoxon test. Understanding and application of these analyses. Appropriate mainframe and microcomputer statistical packages utilized to assist in the numerical analysis of data.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

866**Counseling Pre-Practicum**[LINK \(http://bulletin.unl.edu/courses/EDPS/866\)](http://bulletin.unl.edu/courses/EDPS/866)

Counseling skills required for basic, entry-level clinical work. Practicing

Credit Hours: 3

skills, receiving peer/instructor performance feedback, and role-playing clinical situations.

Campus:
Course Delivery: Classroom

EDPS
867 Roles and Functions in School Psychological Services

[LINK \(http://bulletin.unl.edu/courses/EDPS/867\)](http://bulletin.unl.edu/courses/EDPS/867)

Foundations, models, and practices of contemporary school psychology and an exploration of transitions and future developments in the profession. Investigations of the major legal and ethical systems affecting specialists in the schools and the application of standards for ethical professional practice.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDPS
868 Multicultural Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/868\)](http://bulletin.unl.edu/courses/EDPS/868)

Prereqs:
EDPS *866 or comparable course or permission

Ethnic subcultures in the US, cross-cultural communication systems, and change strategies. Cultural cues and barriers in counseling, personal assumptions and values, and active experiencing of cultural diversity in the counseling relationship.

Credit Hours: 3
Campus:
Course Delivery: Classroom

EDPS
890 Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/890\)](http://bulletin.unl.edu/courses/EDPS/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12
Max credits per degree: 12
Campus:
Course Delivery: Classroom

EDPS
893 Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/893\)](http://bulletin.unl.edu/courses/EDPS/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12
Max credits per degree: 12
Campus:
Course Delivery: Classroom

EDPS
897J Gifted/Talented

[LINK \(http://bulletin.unl.edu/courses/EDPS/897J\)](http://bulletin.unl.edu/courses/EDPS/897J)

Campus:
Course Delivery: Classroom

EDPS
899 Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/EDPS/899\)](http://bulletin.unl.edu/courses/EDPS/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10
Campus:
Course Delivery: Classroom

EDPS
900A

Correlational and Experimental Methods in Educational Research [LINK \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A)

Prereqs:
EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Integrated view of correlational and experimental research in education and social sciences. Builds on idea of relationships among variables and concept of casual relationships between variables. Possible research designs in light of these general principles.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS
900B

Single Case/Small N Methods in Educational Research [LINK \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B)

Prereqs:
EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

General issues related to the use of single case and/or small N methods, in which individuals are observed over time before and subsequent to experimental intervention. Comparison to traditional experimental methods. Repeated measurement techniques. Various research designs appropriate to single case methods.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS
900D

Survey Methods in Educational Research [LINK \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D)

Prereqs:
EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Principles and applications of survey research. Use of appropriate sampling techniques and applications of survey methods to the study of relative incidence, distribution, and interrelations of educational, sociological, and psychological variables.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
900J

Historical Methods in Educational Research [LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)

Crosslisted as *EDAD 900J*

Prereqs:
EDPS *800 or equivalent; EDPS 459
(<http://bulletin.unl.edu/courses/EDPS/459/859>)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS
900K

Qualitative Approaches to Educational Research [LINK \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Prereqs:
EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Uses of qualitative research methods in education. The theoretical premises

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

of research using qualitative methods and the application of this information through critique and planning research. Qualitative methods for data collection.

EDPS
905

Research and Evaluation Literature on Health Promotion

[LINK \(http://bulletin.unl.edu/courses/EDPS/905\)](http://bulletin.unl.edu/courses/EDPS/905)

Crosslisted as *NUTR 905*

Philosophical and empirical review and critique of contemporary literature on school, community, work place and health care-based health promotion and education programs.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
935

Seminar in Qualitative Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)

Crosslisted as *TEAC 935*

Prereqs:
[EDUC 900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
936

Mixed Methods Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/936\)](http://bulletin.unl.edu/courses/EDPS/936)

Prereqs:
[EDUC 800 \(http://bulletin.unl.edu/courses/EDUC/800\)](http://bulletin.unl.edu/courses/EDUC/800) or equivalent, and [EDUC 900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K)

[EDPS 936 \(http://bulletin.unl.edu/courses/EDPS/936\)](http://bulletin.unl.edu/courses/EDPS/936) is for students already familiar with quantitative and qualitative research. An introduction to mixed methods research as a distinct methodology in social science research. Topics include the value and use of this approach, philosophical assumptions, various types of design, and approaches to designing and conducting mixed methods research.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS
941

Intermediate Statistics: Experimental Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/941\)](http://bulletin.unl.edu/courses/EDPS/941)

Crosslisted as *SRAM 941*

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Computation, interpretation, and application of analysis of variance techniques, including factorial and mixed model designs. Computer and microcomputer software accessed.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
942

Intermediate Statistics: Correlational Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/942\)](http://bulletin.unl.edu/courses/EDPS/942)

Crosslisted as *SRAM 942*

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Various correlational-based statistical procedures presented, including linear and nonlinear regression, multiple regression, statistical control, analysis of interactions, the general linear model, factor analysis, and discriminant analysis.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

948**Multicultural Issues in School Psychological Service Delivery**[LINK \(http://bulletin.unl.edu/courses/EDPS/948\)](http://bulletin.unl.edu/courses/EDPS/948)

Current issues related to psycho-educational service delivery to children and families from different cultural and linguistic backgrounds. Integrating research and field experiences to provide students with skills to develop, implement, and deliver culturally sensitive and effective school psychological services.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

949**Cognitive and Behavioral Therapy with Children and Adolescents**[LINK \(http://bulletin.unl.edu/courses/EDPS/949\)](http://bulletin.unl.edu/courses/EDPS/949)

Prereqs:
Permission

This course is a prerequisite for: [EDPS 955 \(http://bulletin.unl.edu/courses/EDPS/955\)](http://bulletin.unl.edu/courses/EDPS/955)

Cognitive and behavioral techniques. Theoretical issues, application and evaluation of major empirically-validated therapeutic treatments that represent best practices in child and adolescent therapy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

950**Intellectual Assessment**[LINK \(http://bulletin.unl.edu/courses/EDPS/950\)](http://bulletin.unl.edu/courses/EDPS/950)

Prereqs:
or coreq: [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859), [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870), and permission

This course is a prerequisite for: [EDPS 951 \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951)

Formal evaluative methods for the investigation of children's learning difficulties, including supervised practicum in administration, scoring, and interpretation of individually administered tests of cognitive abilities.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDPS

951**Academic and Behavioral Assessment**[LINK \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951)

Prereqs:
[EDPS 950 \(http://bulletin.unl.edu/courses/EDPS/950\)](http://bulletin.unl.edu/courses/EDPS/950) and permission

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Advanced study of the theory and practice in the assessment of educational and psychological problems of children and youth to include assessment of systems that impact on the behavior of children and youth. Assessment techniques include environmental observation, interviewing, standardized assessment procedures for academic skills, adaptive behavior, social and emotional problems, curriculum based assessment, and functional analysis and assessment. Ecological-behavioral basis of assessment is explored. A complete psychological and educational evaluation is conducted in a school or other relevant setting.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDPS

952**Systems of Consultation in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/952\)](http://bulletin.unl.edu/courses/EDPS/952)

Prereqs:
[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863)

Intensive analysis of the theory and practice of various systems of mental health consultation in the schools with special emphasis and practicum with mental health service models other than conventional clinical, psychometric, and direct psychoeducational remediation models.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

953**Psychological Assessment II**[LINK \(http://bulletin.unl.edu/courses/EDPS/953\)](http://bulletin.unl.edu/courses/EDPS/953)**Prereqs:****EDPS *853 or equivalent**This course is a prerequisite for: [EDPS 956 \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Advanced assessment and testing skills. Selection, administration and interpretation of a battery of psychological tests and integration and synthesis of relevant test and non-test data into an accessible report writing format. Development of effective consultation and test interpretation feedback skills.

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

EDPS

954**Interventions in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)**Prereqs:**

EDPS 463 (<http://bulletin.unl.edu/courses/EDPS/463>), 863 (<http://bulletin.unl.edu/courses/EDPS/863>), EDPS 951 (<http://bulletin.unl.edu/courses/EDPS/951>) or parallel; and permission

Prepares school psychologists to plan and provide evidence-based psychoeducational interventions for children, youth, families and schools. Application of ecobehavioral theory, models of school mental health, the scientist-practitioner model, the practice of psychotherapy, and empirical evidence of the effectiveness of interventions for culturally and linguistically diverse students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

955**Child Therapy**[LINK \(http://bulletin.unl.edu/courses/EDPS/955\)](http://bulletin.unl.edu/courses/EDPS/955)**Prereqs:****EDPS 949 (<http://bulletin.unl.edu/courses/EDPS/949>)**

Advanced practicum course that facilitates students' scholarly acquisition of principles and concepts relevant to conducting therapy, and provides opportunities for practical integration of knowledge and skills essential to conducting individual, group, and family psychotherapy. Students acquire competencies in developing, implementing and evaluating interventions by conducting therapy sessions, observing sessions, exchanging feedback with peers, and receiving supervision.

Credit Hours:	4
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

956**Projective Psychological Assessment**[LINK \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)**Prereqs:**

EDPS 853 (<http://bulletin.unl.edu/courses/EDPS/853>), and EDPS 953 (<http://bulletin.unl.edu/courses/EDPS/953>). Permission may be granted by Instructor to take Psychological Assessment II after Projective Psychological Assessment.

The primary goal of this course is to assist doctoral students in developing their ability to utilize projective assessment techniques to integrate information from a variety of sources about a person (an adult or older adolescent) into an integrated, useful psychological report. The broad array of data will include not only the results of formal tests (e.g., the Rorschach), but also personal and family history, and behavioral observations.

Credit Hours:	4
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

Practicum in School Psychology Consultation Techniques[LINK \(http://bulletin.unl.edu/courses/EDPS/958B\)](http://bulletin.unl.edu/courses/EDPS/958B)

958B

Prereqs:

[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863), [952 \(http://bulletin.unl.edu/courses/EDPS/952\)](http://bulletin.unl.edu/courses/EDPS/952), [997D \(http://bulletin.unl.edu/courses/EDPS/997D\)](http://bulletin.unl.edu/courses/EDPS/997D) or equivalent, and permission

Practicum experience in ecological/behavioral, mental health, and organizational consultation techniques within a school or related setting. Supplemented by individual and small group supervisory/feedback sessions each week.

Credit Hours:	1-4
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

EDPS

960

Problem Solving and Concept Learning in Humans

[LINK \(http://bulletin.unl.edu/courses/EDPS/960\)](http://bulletin.unl.edu/courses/EDPS/960)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and [854 \(http://bulletin.unl.edu/courses/EDPS/854\)](http://bulletin.unl.edu/courses/EDPS/854)

Critical examination of the non-Piagetean research literature and theory which examines higher mental processes in humans through the lifespan.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

961

Cognitive Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/961\)](http://bulletin.unl.edu/courses/EDPS/961)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and permission

Critical examination of theories and research on cognitive development throughout the lifespan, including Piagetean and alternative perspectives.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

962

Research Literature in Personality and Social Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/962\)](http://bulletin.unl.edu/courses/EDPS/962)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and permission

Critical examination of the concepts and principles derived from the study of personality and social development with special emphasis on the research literature.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

963

Developmental Psychobiology

[LINK \(http://bulletin.unl.edu/courses/EDPS/963\)](http://bulletin.unl.edu/courses/EDPS/963)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and permission

Biological foundations of human psychological development, including anatomical, physiological, and evolutionary considerations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

964

Counseling Theories and Intervention Techniques

[LINK \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964)

Prereqs:
EDPS *866

Parallel: EDPS 997A (<http://bulletin.unl.edu/courses/EDPS/997A>) and permission of counseling area. Overview of theoretical approaches to counseling. Close examination of selected theories and intervention procedures.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
965A **Group Counseling: Social Psychological Aspects**

[LINK \(http://bulletin.unl.edu/courses/EDPS/965A\)](http://bulletin.unl.edu/courses/EDPS/965A)

Prereqs:
EDPS *866

Parallel: EDPS 964 (<http://bulletin.unl.edu/courses/EDPS/964>) and 997A (<http://bulletin.unl.edu/courses/EDPS/997A>). Develops student competencies in analyzing organizational contexts, designing group counseling experiences, and evaluating group experiences.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
966 **Psychology of Learning**

[LINK \(http://bulletin.unl.edu/courses/EDPS/966\)](http://bulletin.unl.edu/courses/EDPS/966)

Prereqs:
EDPS 854 (<http://bulletin.unl.edu/courses/EDPS/854>) and 870 (<http://bulletin.unl.edu/courses/EDPS/870>)

Theories of learning and experimental investigation in the field of animal and human behavior and their application to the classroom.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
967 **Psychology of Motivation in Education**

[LINK \(http://bulletin.unl.edu/courses/EDPS/967\)](http://bulletin.unl.edu/courses/EDPS/967)

Prereqs:
Graduate standing
EDPS 854 (<http://bulletin.unl.edu/courses/EDPS/854>)

Psychology of Motivation focuses on understanding and impacting students' motivation to learn. Theories discussed in this class are applicable to a wide array of achievement settings (e.g., math, science, writing, health education) as well as more general motivational concerns (e.g., studying, addiction, video games). Content covered includes drive theory, behaviorism as motivation, achievement motivation, goal theory, self-determination theory, social cognitive theory, and ecological theories of motivation.

Credit Hours: 3

Course Delivery: Classroom

EDPS
968 **Gender and Counseling Psychology**

[LINK \(http://bulletin.unl.edu/courses/EDPS/968\)](http://bulletin.unl.edu/courses/EDPS/968)

Prereqs:
Admitted as a graduate student in the Counseling Psychology program.

The major purpose of this course is for students to learn about gender issues within the field of counseling psychology from a multicultural and feminist perspective and to gain the essential knowledge and techniques in working with gender issues in diverse settings.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

EDPS
969 **Nonparametric Statistical Methods**

[LINK \(http://bulletin.unl.edu/courses/EDPS/969\)](http://bulletin.unl.edu/courses/EDPS/969)

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Credit Hours: 3

Presentation of statistical procedures that do not require fundamental assumptions about the distribution property of the variables to be analyzed. Chi Square tests, rank tests of location (Wilcoxon, Mann Whitney, Kruskal-Wallis, Friedman), tests of goodness of fit (Chi Square, Kolmogorov-Smirnoff), tests of randomness (Runs).

Campus:	
Course Delivery:	Classroom

EDPS
97

College Major Forum

[LINK \(http://bulletin.unl.edu/courses/EDPS/97\)](http://bulletin.unl.edu/courses/EDPS/97)

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B), [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

[EDPS 97 \(http://bulletin.unl.edu/courses/EDPS/97\)](http://bulletin.unl.edu/courses/EDPS/97) is Pass/No Pass only.

This is an eight week seminar course for first semester students in the General Studies Learning Community. Students will complete activities to identify interests, research majors that match their interests and complete a "Guided Professional Shadowing" experience to gain first-hand knowledge about a career of their choice.

Credit Hours:	0
Course Format:	Lecture
Course Delivery:	Classroom

EDPS
970

Theory and Methods of Educational Measurement

[LINK \(http://bulletin.unl.edu/courses/EDPS/970\)](http://bulletin.unl.edu/courses/EDPS/970)

Crosslisted as *SRAM 970*

Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) and [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870); [EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/EDPS/SRAM/941\)](http://bulletin.unl.edu/courses/EDPS/SRAM/941); or equivalent [EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/EDPS/SRAM/941\)](http://bulletin.unl.edu/courses/EDPS/SRAM/941); or equivalent

Presentation of various measurement theories and concepts, including classical true-score theory, reliability and validity, test construction, item response theory, test equating, test bias, and criterion-referenced tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
971

Structural Equation Modeling

[LINK \(http://bulletin.unl.edu/courses/EDPS/971\)](http://bulletin.unl.edu/courses/EDPS/971)

Crosslisted as *SRAM 971*

Prereqs:
[EDPS/SRAM 942 \(http://bulletin.unl.edu/courses/EDPS/SRAM/942\)](http://bulletin.unl.edu/courses/EDPS/SRAM/942) and [970 \(http://bulletin.unl.edu/courses/EDPS/970\)](http://bulletin.unl.edu/courses/EDPS/970); or equivalent [EDPS/SRAM 942 \(http://bulletin.unl.edu/courses/EDPS/SRAM/942\)](http://bulletin.unl.edu/courses/EDPS/SRAM/942); or equivalent

Introduction to the techniques of path analysis, confirmatory factor analysis, and structural equation modeling with emphasis on the set-up and interpretation of different models using the LISREL program. Model testing and evaluation, goodness-of-fit indices, violations of assumptions, specification searches, and power analyses.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS
972

Multivariate Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/972\)](http://bulletin.unl.edu/courses/EDPS/972)

Crosslisted as *SRAM 972*

Prereqs:
[EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/EDPS/SRAM/941\)](http://bulletin.unl.edu/courses/EDPS/SRAM/941) and [942 \(http://bulletin.unl.edu/courses/EDPS/942\)](http://bulletin.unl.edu/courses/EDPS/942); or equivalent [EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/EDPS/SRAM/941\)](http://bulletin.unl.edu/courses/EDPS/SRAM/941); or equivalent

Techniques of multivariate analyses, including multivariate analysis of variance and covariance, multivariate multiple regression, multigroup discriminant analysis, canonical analysis, repeated measures (Multivariate model), and time series. Mathematical models presented and analyzed. Instruction complemented by appropriate statistical software packages.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

Evaluation Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A)

973A

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Theories and strategies of evaluation examined within the context of society at large and educational and human service programs in particular. Key evaluation models examined as they relate to judgments and decisions about programs. Methodological, social, and political issues in evaluation which pertain equally to an educational program or a human service agency.

Credit Hours:	2-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDPS

Evaluation Practicum

[LINK \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

973B

Prereqs:
[EDPS 973A \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A) or permission

Actual supervised evaluation of a program or project.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDPS

Guidance and Counseling in Schools

[LINK \(http://bulletin.unl.edu/courses/EDPS/974\)](http://bulletin.unl.edu/courses/EDPS/974)

974

Survey of elementary, middle and secondary school comprehensive models of guidance. Ingredients of effective helping relationships with students in schools. Analysis of school violence, risk assessment models, multicultural influences, prevention models, and guidance roles of teachers/administrators.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

Occupations and Vocational Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/975\)](http://bulletin.unl.edu/courses/EDPS/975)

975

Evaluation and uses of occupational and educational information; job analysis; psychological and behavioral attributes relating to work and life-styles; occupational taxonomies; career-development theories; impact of accelerating changes on personal and social planning; investigations of value-oriented expectations as sources of work satisfaction and dissatisfaction; critical assessment of the concept of vocational choice. For counselors and educators.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

Advanced Counseling Psychology I: Counseling Theory and Practice [LINK \(http://bulletin.unl.edu/courses/EDPS/976\)](http://bulletin.unl.edu/courses/EDPS/976)

976

Prereqs:
Doctoral level counseling students and others by permission

This course is a prerequisite for: [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

Counseling methodology in relationship to personality theory and research. Consideration of various theories and research in relation to counseling practice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

Seminar in College Student Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)

977

Crosslisted as *EDAD 980*

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of

Credit Hours:	2-3
Max credits per degree:	6
Campus:	

EDPS

978**Advanced Counseling Psychology II: Research in Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)**Prereqs:**

[EDPS 976 \(http://bulletin.unl.edu/courses/EDPS/976\)](http://bulletin.unl.edu/courses/EDPS/976); [EDUC 900A \(http://bulletin.unl.edu/courses/EDUC/900A\)](http://bulletin.unl.edu/courses/EDUC/900A) and either [EDUC 900B \(http://bulletin.unl.edu/courses/EDUC/900B\)](http://bulletin.unl.edu/courses/EDUC/900B) or [900K \(http://bulletin.unl.edu/courses/EDUC/900K\)](http://bulletin.unl.edu/courses/EDUC/900K)

Research strategies appropriate for counseling psychology. Identification of researchable problem and completion of research proposal including literature review, design, and proposed data analysis procedures.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

980**Item Response Theory**[LINK \(http://bulletin.unl.edu/courses/EDPS/980\)](http://bulletin.unl.edu/courses/EDPS/980)**Prereqs:**

[EDPS 870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870) and [970 \(http://bulletin.unl.edu/courses/EDPS/970\)](http://bulletin.unl.edu/courses/EDPS/970); or permission

Principles of item response theory (IRT) and its application to a variety of issues in educational and psychological measurement. Theoretical foundations of IRT discussed along with its assumptions and varied applications. Experience using IRT calibration and scoring computer software.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

981**School Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/981\)](http://bulletin.unl.edu/courses/EDPS/981)**Prereqs:**

by permission of course instructor

Supervised practice in local school districts related to academic, social, behavioral and emotional disorders of children and adolescents.

Credit Hours: 2-4

Max credits per semester: 4

Max credits per degree: 8

Course Format: Field, Lab, Lecture

Campus:

Course Delivery: Classroom

EDPS

982**Clinical Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/982\)](http://bulletin.unl.edu/courses/EDPS/982)**Prereqs:**

by permission of course instructor

Supervised clinical practice related to academic, social, behavioral and emotional disorders of children and adolescents. Parent and family treatment and behavior interventions emphasized.

Credit Hours: 2-4

Max credits per semester: 4

Max credits per degree: 16

Course Format: Field, Lab, Lecture

Course Delivery: Classroom

EDPS

983**Community Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/983\)](http://bulletin.unl.edu/courses/EDPS/983)**Prereqs:**

Doctoral standing in professional psychology program and permission

Supervised clinical experience working with children, adolescents and

Credit Hours: 2-4

Max credits per semester: 4

families in a variety of school and community settings.

Max credits per degree: 16

Course Format: Field, Lab, Lecture

Course Delivery: Classroom

EDPS

984

Ethics and Ethical Decision Making in Counseling and Education [LINK \(http://bulletin.unl.edu/courses/EDPS/984\)](http://bulletin.unl.edu/courses/EDPS/984)

Ethical principles in the practice of counseling. Application of ethical guidelines and development of ethical decision-making models relevant to school and mental health contents.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

985

Couple and Family Counseling [LINK \(http://bulletin.unl.edu/courses/EDPS/985\)](http://bulletin.unl.edu/courses/EDPS/985)

Prereqs:
EDPS *866 or equivalent

Couple and family systems and change strategies. Active, brief forms of couple and family counseling and enrichment formats.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

987

Developmental Perspectives on Gender and Sexuality in Counseling [LINK \(http://bulletin.unl.edu/courses/EDPS/987\)](http://bulletin.unl.edu/courses/EDPS/987)

Issues related to gender and sexuality in the process of counseling and psychotherapy. Developmental issues related to gender differences, gender bias, gender identity, gender discrimination, and gender-based disorders. Feminist and affirmative therapy techniques.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

989

Psychology of Reading [LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)

Crosslisted as *TEAC 989*

Prereqs:
TEAC *811 or 841 or SPED 886
(<http://bulletin.unl.edu/courses/SPED/886>)

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

990

Workshop Seminar [LINK \(http://bulletin.unl.edu/courses/EDPS/990\)](http://bulletin.unl.edu/courses/EDPS/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDPS

991

Seminar in Educational Psychology and Measurements [LINK \(http://bulletin.unl.edu/courses/EDPS/991\)](http://bulletin.unl.edu/courses/EDPS/991)

Prereqs:
Permission

Credit Hours: 1-12

Max credits per degree: 12

Course Format: Lecture

Campus:

Course Delivery: Classroom

EDPS

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/993\)](http://bulletin.unl.edu/courses/EDPS/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDPS

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/995\)](http://bulletin.unl.edu/courses/EDPS/995)

Prereqs:
Permission

EDPS 995 (<http://bulletin.unl.edu/courses/EDPS/995>) is intended primarily for EDPS doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor.

Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours: 3-4

Max credits per degree: 18

Campus:

Course Delivery: Classroom

EDPS

996A

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/EDPS/996A\)](http://bulletin.unl.edu/courses/EDPS/996A)

Independent operational research under faculty supervision.

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

EDPS

996B

Readings in Educational Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/996B\)](http://bulletin.unl.edu/courses/EDPS/996B)

Prereqs:
Permission

Readings on selected problems in educational psychology.

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

EDPS

997A

Practicum in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Prereqs:
Masters admission in educational psychology or permission of counseling area, EDPS *866

This course is a prerequisite for: [EDPS 997B \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B), [EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Parallel: [EDPS 964 \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964). Supervised laboratory clinic-based experiences in counseling.

Credit Hours: 2-4

Campus:

Course Delivery: Classroom

EDPS

Field Placement in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B)

997B

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Supervised field experiences in school counseling, college student personnel, and community social service agencies.

Credit Hours:	2-4
Campus:	
Course Delivery:	Classroom

EDPS 997D Practicum in Behavior Management Technologies

[LINK \(http://bulletin.unl.edu/courses/EDPS/997D\)](http://bulletin.unl.edu/courses/EDPS/997D)

Prereqs:
[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863) and permission

Supervised practicum in the design, implementation, evaluation, and reporting of various behavior modification technologies for individuals and groups; social systems engineering.

Credit Hours:	3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS 997E Practicum in Counselor Supervision and Consultation

[LINK \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Prereqs:
[EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G) or equivalent

Supervised counseling supervision and consultation experience emphasizing process methods and evaluation.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

EDPS 997G Advanced Practicum in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A) and permission

This course is a prerequisite for: [EDPS 997E \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Supervised counseling experience in university, schools, and community agencies.

Credit Hours:	2-4
Campus:	
Course Delivery:	Classroom

EDPS 997J Advanced Practicum in Gifted Education

[LINK \(http://bulletin.unl.edu/courses/EDPS/997J\)](http://bulletin.unl.edu/courses/EDPS/997J)

Crosslisted as *SPED 997J*

Prereqs:
Permission

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS 997K Supervision in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/997K\)](http://bulletin.unl.edu/courses/EDPS/997K)

Prereqs:
Doctoral standing in professional psychology program and permission.

Supervised experience in supervising graduate students in practicum settings. Refinement of consultation, assessment, diagnosis, and treatment skills.

Credit Hours:	3-4
Max credits per semester:	8
Max credits per degree:	8
Course Format:	Field, Lab, Lecture

EDPS

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/EDPS/999\)](http://bulletin.unl.edu/courses/EDPS/999)**Prereqs:**

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

PSYC

471/871**Human Sexuality and Society**Crosslisted as *SOCI 471/871, EDPS 471/871, CYAF 471/871*[LINK \(http://bulletin.unl.edu/courses/PSYC/471\)](http://bulletin.unl.edu/courses/PSYC/471)**Prereqs:**

Junior standing and 12 hrs in one of the departments in which the course is listed.

Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.).

Interdisciplinary approach to the study of human sexuality in terms of the psychological, social, cultural, anthropological, legal, historical, and physical characteristics of individual sexuality and sex in society.

Credit Hours:	3
Course Delivery:	Classroom

SPED

892**Special Topics in Education**Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)**Prereqs:**

EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; **EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC

930**Sociological/Anthropological Research Methods in Education**Crosslisted as *EDPS 930, CYAF 930, NUTR 930*[LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1-3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1-3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1-3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1-3 cr, max 3)
- J. Hermeneutic Traditions in Education (1-3 cr, max 3)
- K. Quantitative Research Traditions in Education (1-3 cr, max 3)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

Q

Courses for SPED (SPED)

EDAD

855**Teaching Learners to Learn**Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

856

Supervising Special Education

Crosslisted as *SPED 856*

[LINK \(http://bulletin.unl.edu/courses/EDAD/856\)](http://bulletin.unl.edu/courses/EDAD/856)

For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

857

Special Education Administration

Crosslisted as *SPED 857*

[LINK \(http://bulletin.unl.edu/courses/EDAD/857\)](http://bulletin.unl.edu/courses/EDAD/857)

Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

858

Special Education Law

Crosslisted as *SPED 858*

[LINK \(http://bulletin.unl.edu/courses/EDAD/858\)](http://bulletin.unl.edu/courses/EDAD/858)

Body of law that pertains to the organization, administration, and implementation of special education programs in PreK-12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

997J

Advanced Practicum in Gifted Education

Crosslisted as *SPED 997J*

[LINK \(http://bulletin.unl.edu/courses/EDPS/997J\)](http://bulletin.unl.edu/courses/EDPS/997J)

Prereqs:
Permission

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

884

Speech and Language Development of the Hearing Impaired

Crosslisted as *SPED 884*

[LINK \(http://bulletin.unl.edu/courses/SLPA/884\)](http://bulletin.unl.edu/courses/SLPA/884)

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SLPA

Language Study of Teachers of Deaf and Hard of Hearing (DHH) [LINK \(http://bulletin.unl.edu/courses/SLPA/956\)](http://bulletin.unl.edu/courses/SLPA/956)

Crosslisted as *SPED 956*

956

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
400/800

Characteristics of Exceptional Persons

LINK (<http://bulletin.unl.edu/courses/SPED/400>)

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>), [SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>), [SPED 809](http://bulletin.unl.edu/courses/SPED/809) (<http://bulletin.unl.edu/courses/SPED/809>), [SPED 843](http://bulletin.unl.edu/courses/SPED/843) (<http://bulletin.unl.edu/courses/SPED/843>)

Credit Hours:	3
Course Delivery:	Classroom

Etiology, growth and development, and characteristics of children and youth who deviate from the norm.

SPED
401A/801A

Accommodating Exceptional Learners in the Elementary School Classroom

LINK (<http://bulletin.unl.edu/courses/SPED/401A>)

Prereqs:
Admission to the Teacher Education Program; [EDPS 362](http://bulletin.unl.edu/courses/EDPS/362) (<http://bulletin.unl.edu/courses/EDPS/362>); [TEAC 195](http://bulletin.unl.edu/courses/TEAC/195) (<http://bulletin.unl.edu/courses/TEAC/195>); one methods course; or permission.

Credit Hours:	3
Course Delivery:	Classroom

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the elementary school.

SPED
401B/801B

Accommodating Exceptional Learners in the Secondary School Classroom

LINK (<http://bulletin.unl.edu/courses/SPED/401B>)

Prereqs:
Admission to the Teacher Education Program; [EDPS 362](http://bulletin.unl.edu/courses/EDPS/362) (<http://bulletin.unl.edu/courses/EDPS/362>); [TEAC 195](http://bulletin.unl.edu/courses/TEAC/195) (<http://bulletin.unl.edu/courses/TEAC/195>); one methods course; or permission.

Credit Hours:	3
Course Delivery:	Classroom

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the secondary school.

SPED
405/805

Code-based Reading Instruction

LINK (<http://bulletin.unl.edu/courses/SPED/405>)

Prereqs:
Parallel [SPED 405A](http://bulletin.unl.edu/courses/SPED/405A) (<http://bulletin.unl.edu/courses/SPED/405A>) / [805A](http://bulletin.unl.edu/courses/SPED/805A) (<http://bulletin.unl.edu/courses/SPED/805A>).

Credit Hours:	1-3
Max credits per semester:	6
Course Format:	Lecture
Course Delivery:	Classroom

This course is a prerequisite for: [SPED 405](http://bulletin.unl.edu/courses/SPED/405) (<http://bulletin.unl.edu/courses/SPED/405>)

Direct, systematic, multi-sensory techniques for teaching reading, writing and spelling to students who have severe reading problems.

SPED

Reading Center Practicum I[LINK \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A)**405A/805A****Prereqs:
Permission.**This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)[SPED 405A \(http://bulletin.unl.edu/courses/SPED/405A/805A\)](http://bulletin.unl.edu/courses/SPED/405A/805A) (<http://bulletin.unl.edu/courses/SPED/805A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, lesson planning and teaching using direct instruction, code-based instructional strategies.

Credit Hours:	1-3
Max credits per semester:	3
Course Format:	Field
Course Delivery:	Classroom

SPED

Reading and Writing Disabilities: Adolescents[LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)**406/806**Crosslisted as *TEAC 806***Prereqs:**[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400/800\)](http://bulletin.unl.edu/courses/SPED/400/800) (<http://bulletin.unl.edu/courses/SPED/800>), [SPED 412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412) (<http://bulletin.unl.edu/courses/SPED/812>) (<http://bulletin.unl.edu/courses/SPED/812>), and ([TEAC 441 \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Parallel [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/806A>) (<http://bulletin.unl.edu/courses/SPED/806A>).This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED

Reading Center Practicum II[LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)**406A/806A**Crosslisted as *TEAC 806A***Prereqs:**[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400/800\)](http://bulletin.unl.edu/courses/SPED/400/800) (<http://bulletin.unl.edu/courses/SPED/800>), [412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412) (<http://bulletin.unl.edu/courses/SPED/812>) (<http://bulletin.unl.edu/courses/SPED/812>), and ([TEAC 441 \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Taken parallel with [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/806>) (<http://bulletin.unl.edu/courses/SPED/806>).This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)[SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A/806A\)](http://bulletin.unl.edu/courses/SPED/406A/806A) (<http://bulletin.unl.edu/courses/SPED/806A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

SPED

Teaching Students with Disabilities in the Secondary School[LINK \(http://bulletin.unl.edu/courses/SPED/407\)](http://bulletin.unl.edu/courses/SPED/407)**407/807****Prereqs:**[SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) or [400](http://bulletin.unl.edu/courses/SPED/400)

Credit Hours:	3
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<http://bulletin.unl.edu/courses/SPED/400/> **800**
<http://bulletin.unl.edu/courses/SPED/800/>.

Course Delivery: Classroom

This course is a prerequisite for: [SPED 408 \(http://bulletin.unl.edu/courses/SPED/408/\)](http://bulletin.unl.edu/courses/SPED/408/)

Information about the mildly/moderately disabled secondary-level student; including characteristics, assessment, models for programs, social skill training, behavior management, working with parents, and curriculum modification.

SPED **408/808** **Issues in Secondary Programs for Students with Mild Disabilities** [LINK \(http://bulletin.unl.edu/courses/SPED/408/\)](http://bulletin.unl.edu/courses/SPED/408/)

Prereqs:
Special Education Professional Semester and [SPED 407 \(http://bulletin.unl.edu/courses/SPED/407/\)](http://bulletin.unl.edu/courses/SPED/407/).

Credit Hours: 3

Course Delivery: Classroom

Issues in secondary education for students with mild disabilities based on current literature and needs of individual students.

SPED **412/812** **Assessment Techniques for Diverse Learners** [LINK \(http://bulletin.unl.edu/courses/SPED/412/\)](http://bulletin.unl.edu/courses/SPED/412/)

Prereqs:
Sophomore standing; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201/\)](http://bulletin.unl.edu/courses/SPED/201/) and [303 \(http://bulletin.unl.edu/courses/SPED/303/\)](http://bulletin.unl.edu/courses/SPED/303/).

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406/\)](http://bulletin.unl.edu/courses/SPED/406/),
[SPED 415 \(http://bulletin.unl.edu/courses/SPED/415/\)](http://bulletin.unl.edu/courses/SPED/415/)

The role of general education teachers in the primary purposes of assessment of learners with diverse needs. Knowledge and experience with interpreting norm-referenced test information as related to planning educational programs. Use of assessment information for instructional planning and evaluation. Testing accommodations and classroom grading.

SPED **414/814** **Instructional Methods for Students with Diverse Needs** [LINK \(http://bulletin.unl.edu/courses/SPED/414/\)](http://bulletin.unl.edu/courses/SPED/414/)

Prereqs:
Sophomore standing; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201/\)](http://bulletin.unl.edu/courses/SPED/201/) and [303 \(http://bulletin.unl.edu/courses/SPED/303/\)](http://bulletin.unl.edu/courses/SPED/303/).

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom, Web

This course is a prerequisite for: [SPED 415 \(http://bulletin.unl.edu/courses/SPED/415/\)](http://bulletin.unl.edu/courses/SPED/415/)

Instructional methods and accommodations for special education and general education teachers necessary to work successfully with students with disabilities or who are at-risk for academic failure. Curriculum modification, classroom management, strategy instruction, and instructional modifications for content areas.

SPED **415/815** **Reading and Writing Disabilities: Elementary Students** [LINK \(http://bulletin.unl.edu/courses/SPED/415/\)](http://bulletin.unl.edu/courses/SPED/415/)

Prereqs:
[SPED 201 \(http://bulletin.unl.edu/courses/SPED/201/\)](http://bulletin.unl.edu/courses/SPED/201/), [TEAC 311 \(http://bulletin.unl.edu/courses/TEAC/311/\)](http://bulletin.unl.edu/courses/TEAC/311/), [TEAC 313 \(http://bulletin.unl.edu/courses/TEAC/313/\)](http://bulletin.unl.edu/courses/TEAC/313/) for elementary education majors; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201/\)](http://bulletin.unl.edu/courses/SPED/201/), [SPED 412 \(http://bulletin.unl.edu/courses/SPED/412/\)](http://bulletin.unl.edu/courses/SPED/412/), and [SPED 414 \(http://bulletin.unl.edu/courses/SPED/414/\)](http://bulletin.unl.edu/courses/SPED/414/) (or equivalent) for SPED

Credit Hours: 2

Course Format: Lecture 2

Course Delivery: Classroom

majors. Must be taken with: SPED 415A
<http://bulletin.unl.edu/courses/SPED/415A/815A>
<http://bulletin.unl.edu/courses/SPED/815A>.

This course is a prerequisite for: [SPED 415 \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

Theory and techniques for assessing and teaching early literacy skills in small groups and one-on-one for children who struggle with literacy.

SPED Career Education for the Special Needs Student

436/836

[LINK \(http://bulletin.unl.edu/courses/SPED/436\)](http://bulletin.unl.edu/courses/SPED/436)

Prereqs:
[SPED 434 \(http://bulletin.unl.edu/courses/SPED/434\)](http://bulletin.unl.edu/courses/SPED/434)/[834](http://bulletin.unl.edu/courses/SPED/834)
<http://bulletin.unl.edu/courses/SPED/834> or permission.

Philosophical and practical base of career education as it relates to special needs students. Career education units developed for infusion into subject areas.

Credit Hours:	3
Course Delivery:	Classroom

SPED Medically Fragile infants

463/863

[LINK \(http://bulletin.unl.edu/courses/SPED/463\)](http://bulletin.unl.edu/courses/SPED/463)

Prereqs:
Major in Special Education, Speech-language Pathology or Child Youth and Family Studies. Senior status or permission of instructor.

Unique needs, family-coping strategies, specialized medical staff and various health care settings for chronically ill infants, toddlers and preschool age children. Overview of etiology, characteristics and developmental implications of selected medical conditions related to developmental disabilities.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Web

SPED Psychology and Sociology of Deafness

472/872

[LINK \(http://bulletin.unl.edu/courses/SPED/472\)](http://bulletin.unl.edu/courses/SPED/472)

Education of the hearing impaired including history of, professional roles in, and educational programming within this field. Social/psychological theories as related to the hearing impaired. Patterns of social/emotional development, psychological characteristics, issues of family stress and social adaptation and discussion of counseling techniques.

Credit Hours:	3
Course Delivery:	Classroom

SPED Educating Students with Intellectual Impairments & Developmental Disabilities

480/880

[LINK \(http://bulletin.unl.edu/courses/SPED/480\)](http://bulletin.unl.edu/courses/SPED/480)

This course is a prerequisite for: [SPED 881 \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)

Concepts related to history, definitions, identification, etiology, and assessment of students with intellectual impairments and developmental disabilities. Examine attitudes, assumptions, and stereotypes concerning persons with intellectual impairments and other developmental disabilities. Instructional methods, adaptations and teaming to provide individualized interventions and include students in least restrictive environments/general education settings. Applied assignments will be conducted in field experience and student teaching.

Credit Hours:	3
Course Delivery:	Classroom, Web

SPED Independent Study in Special Education

495/895

[LINK \(http://bulletin.unl.edu/courses/SPED/495\)](http://bulletin.unl.edu/courses/SPED/495)

Prereqs:
Prior arrangements with faculty member and permission.

Special research or reading project under direction of a staff member in the department.

Credit Hours: 1-3

Course Delivery: Classroom

SPED **Directed Field Experience**

496/896

[LINK \(http://bulletin.unl.edu/courses/SPED/496\)](http://bulletin.unl.edu/courses/SPED/496)

Prereqs:
Permission.

Pass/No Pass only for *SPED 496* (<http://bulletin.unl.edu/courses/SPED/496>) section. *SPED 896* (<http://bulletin.unl.edu/courses/SPED/896>) is graded.

E. Field Experience: General Special Education (1-6 cr, max 12) M. Field Experience: Mild/Moderate (1-6 cr, max 12) Y. Field Experience: Inclusion (1-6 cr, max 12)

Credit Hours: 1-6

Max credits per semester: 12

Course Format: Field

Course Delivery: Classroom

SPED **Directed Field Experience: Inclusion**

496Y/896Y

[LINK \(http://bulletin.unl.edu/courses/SPED/496Y\)](http://bulletin.unl.edu/courses/SPED/496Y)

Prereqs:
Permission.

Pass/No Pass only for *SPED 496* (<http://bulletin.unl.edu/courses/SPED/496>) section. *SPED 896* (<http://bulletin.unl.edu/courses/SPED/896>) is graded.

Credit Hours: 1-6

Max credits per semester: 12

Course Format: Field

Course Delivery: Classroom

SPED **Advanced Assessment Techniques**

802

[LINK \(http://bulletin.unl.edu/courses/SPED/802\)](http://bulletin.unl.edu/courses/SPED/802)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) or equivalent; or permission

Comprehensive study of criterion-referenced and normative-referenced assessment instruments used by school resource personnel.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED **Effective Instruction for Learners with Special Needs**

803

[LINK \(http://bulletin.unl.edu/courses/SPED/803\)](http://bulletin.unl.edu/courses/SPED/803)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) and *802; or permission

Interaction of classroom-based assessment and effective instructional strategies for use with individual and group formats. Development of individual education plans, curriculum analysis, delivery of instruction, curriculum-based measurement, and specific and generic instructional strategies.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED **Managing Challenging Behavior**

804

[LINK \(http://bulletin.unl.edu/courses/SPED/804\)](http://bulletin.unl.edu/courses/SPED/804)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *802, *803; or permission

Functional approaches that can be used by teachers and mental health practitioners for assessing, preventing, and managing children's challenging

Credit Hours: 3

Campus:

Course Delivery: Classroom

behavior. Basics of applied behavior analysis, functional analyses of behavior, individual- and group-oriented interventions, self-management training, and strategies for promoting generalization.

SPED
809

Autism Spectrum Disorders (ASDs): Effective Assessment and Intervention bulletin.unl.edu/courses/SPED/809

Prereqs:

SPED 400 (<http://bulletin.unl.edu/courses/SPED/400/>) **800** (<http://bulletin.unl.edu/courses/SPED/800/>) or equivalent

SPED 809 (<http://bulletin.unl.edu/courses/SPED/809/>) requires observation in schools and applied assignments.

Designed for educators of children and youth with Autism Spectrum Disorders (ASDs) in school settings. Assessment strategies to identify characteristics of ASDs focused on individual needs and strengths-based outcomes. Knowledge and skills regarding evidence-based practices and individualized educational programs.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
810

Autism Spectrum Disorders (ASDs): Methods and Program Planning <http://bulletin.unl.edu/courses/SPED/810>

Prereqs:

SPED *809 or equivalent

*Majors in severe disabilities must parallel with SPED *896P (1 cr). SPED *810 requires observations in schools and applied assignments.*

Planning, implementing, and evaluating effective education for individuals with Autism Spectrum Disorders (ASDs). Uses an ecological approach to assess present levels of performance and individual characteristics. Apply assessment outcomes to develop functional outcomes, to select instructional strategies, and utilize empirically-based interventions.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
820

Mathematics Instruction for Diverse Learners [LINK \(http://bulletin.unl.edu/courses/SPED/820\)](http://bulletin.unl.edu/courses/SPED/820)

Prereqs:

SPED 201 (<http://bulletin.unl.edu/courses/SPED/201/>) or **400** (<http://bulletin.unl.edu/courses/SPED/400/>) or **800** (<http://bulletin.unl.edu/courses/SPED/800/>)

*SPED *820 and associated practicum is designed to meet professional standards (i.e., Council for Exceptional Children, Teacher Education Accreditation Council) for teachers in the area of instruction for diverse learners.*

Supplemental basic skills and concepts instruction for diverse learners within a response to intervention models and on mathematics instruction. Selection, delivery, and evaluation of standard protocol and individualized interventions to diverse learners.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
824

Functional Behavioral Assessment [LINK \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824)

Prereqs:

SPED 303 (<http://bulletin.unl.edu/courses/SPED/303/>) or equivalent. **Parallel SPED 824A** (<http://bulletin.unl.edu/courses/SPED/824A/>).

This course is a prerequisite for: **SPED 824** (<http://bulletin.unl.edu/courses/SPED/824/>), **SPED 824A** (<http://bulletin.unl.edu/courses/SPED/824A/>)

Functional behavioral assessments (FBAs) and development of behavior intervention plans (BIPs) based on the assessments. Contextual and

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

curriculum manipulations, and replacement behavior training.

SPED
824A **Practicum in Functional Behavioral Assessment**

[LINK \(http://bulletin.unl.edu/courses/SPED/824A\)](http://bulletin.unl.edu/courses/SPED/824A)

Prereqs:
[SPED 303 \(http://bulletin.unl.edu/courses/SPED/303\)](http://bulletin.unl.edu/courses/SPED/303) or approved equivalent. Parallel [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824).

This course is a prerequisite for: [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824)

Opportunities to engage in the activities and practice the skills associated with [SPED 824 \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824). Culmination of the practicum is performing a complete functional behavioral assessment and developing a behavior intervention plan for a student who displays challenging behaviors.

Credit Hours:	2
Course Format:	Field
Campus:	
Course Delivery:	Classroom

SPED
833 **Behavioral Systems and Interventions**

[LINK \(http://bulletin.unl.edu/courses/SPED/833\)](http://bulletin.unl.edu/courses/SPED/833)

Prereqs:
[SPED 813 \(http://bulletin.unl.edu/courses/SPED/813\)](http://bulletin.unl.edu/courses/SPED/813) or equivalent

Three-tier models for encouraging and maintaining students' appropriate behaviors. Evaluation and implementation of interventions at the school-wide, classroom and/or small group, and individual levels. Presentation of different models i.e., Response to Intervention (RtI) and School-Wide Positive Behavior Support (SWPBS).

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
834 **Introduction to Special Vocational Needs**

[LINK \(http://bulletin.unl.edu/courses/SPED/834\)](http://bulletin.unl.edu/courses/SPED/834)

Foundational course emphasizing the characteristics and identification of special needs learners in vocational settings. Determines needs, interests, and abilities of these students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
841 **Emotional and Behavioral Disorders**

[LINK \(http://bulletin.unl.edu/courses/SPED/841\)](http://bulletin.unl.edu/courses/SPED/841)

Prereqs:
[SPED 800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800) or permission

Etiology, theories and assessment of child and adolescent emotional and behavioral disorders. Addresses issues of definitions and classification (DSM-IV and special education) or deviant behavior and psychopathology, as well as an overview of service delivery systems in education and mental health.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
843 **Characteristics of Emotional and Learning Disorders**

[LINK \(http://bulletin.unl.edu/courses/SPED/843\)](http://bulletin.unl.edu/courses/SPED/843)

Prereqs:
[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)/[800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800)

Learning, academic, behavioral, social-emotional and language characteristics of students who are classified as having disabilities for purposes of special education. Definitions, classification systems,

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

assessment and verification criteria, and medications for students with learning and emotional disabilities.

SPED

846

Foundations of Visual Impairment: Programs and Services for Individuals with Visual Impairments <http://bulletin.unl.edu/courses/SPED/846>

Prereqs:

Admission to visually impaired program; hold or concurrently earn subject/field endorsement

Current educational programs and services for children with visual impairments, as well as children with multiple disabilities. History of educational services, developmental characteristics, psycho-social aspects, history of legislation, and grade I Braille.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

847

Introduction to Eye Anatomy of Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/847>

Prereqs:

SPED *846 or permission

Structure and function of the visual system, conditions that effect visual ability, and the functional and environmental implications of low vision. Strategies for enhancing visual ability in children with visual impairments and children who have additional disabilities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

849

Braille Codes and Material Adaptations for Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/849>

Prereqs:

SPED *846 and *847, or permission

Basic skills in literary Braille transcription and codes. Acquire competence in reading and writing Braille and using the Perkins braillewriter and slate/stylus.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

851

Intermediate Braille Codes and Instructional Material Adaptations for Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/851>

Prereqs:

SPED *846, *847, and *849

Advanced skills in Nemeth (mathematics code) and/or Literary code. Basic activities in braille formatting, foreign language, music and identification of braille technology devices and resources.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

852

Instructional Methods for Teachers of Students with Visual Impairments <http://bulletin.unl.edu/courses/SPED/852>

Prereqs:

SPED *846, *847, *849, and *851

Methods and materials for educating children who are totally blind or have low vision, including students with multiple impairments. Practical skills in selecting, designing, and/or modifying materials for content area subjects: mathematics, science, social studies, creative arts, foreign language, and other subjects.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
852A

Applied Technology Methods for Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/852A\)](http://bulletin.unl.edu/courses/SPED/852A)

Prereqs:
SPED *846 and *847, or equivalents

Theory and skill development in the selection and use of technology for students with visual impairments. Technology assessments, data collection, equipment feature, source of equipment, funding sources, writing technology instructional plans, and demonstration of using various equipment and technology.

Credit Hours:	1
Campus:	
Course Delivery:	Classroom

SPED
852B

Applied Instructional Methods to Teach Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/852B\)](http://bulletin.unl.edu/courses/SPED/852B)

Prereqs:
SPED *846, *847, *849, *851, and *852; or equivalents

Practice using appropriate instructional methods and materials for educating the blind and low vision child.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SPED
853

Orientation and Mobility Skills for Students with Visual Impairments [LINK \(http://bulletin.unl.edu/courses/SPED/853\)](http://bulletin.unl.edu/courses/SPED/853)

Prereqs:
SPED *846, *847, *849, *851, and *852

Theory and applied practice in basic orientation and mobility techniques for use with students with visual impairments. Practical methods for work in concept development, orientation skills, travel skills and techniques, personal safety and independent travel. Needs of specific populations such as people with low vision and individuals with additional disabilities. Vision simulators and occluders. An introduction to the history and development of the profession.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
860

Issues in Early Childhood Special Education [LINK \(http://bulletin.unl.edu/courses/SPED/860\)](http://bulletin.unl.edu/courses/SPED/860)

Introduction to the history, philosophy, and research related to early intervention practices with children 0–5 years of age. Discussion of issues related to legal mandates, model programs, family involvement, integration, transitions, service delivery systems, teamwork and assessment for young children.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
861

Infants with Disabilities and Home Visiting [LINK \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)

Prereqs:
SPED 960 (<http://bulletin.unl.edu/courses/SPED/960>) and permission.

SPED *861 requires a practicum in home visiting.

Assessment and intervention strategies for developing appropriate early intervention programs for infants and toddlers with disabilities. Rationale and principles for conducting home-based, family-centered, and transdisciplinary services.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
862

Preschool Children with Disabilities in a Classroom [LINK \(http://bulletin.unl.edu/courses/SPED/862\)](http://bulletin.unl.edu/courses/SPED/862)

Prereqs:
An assessment and behavior management course; and permission.

SPED *862 requires an applied experience.

Selection, design and implementation of developmentally appropriate, activity-based interventions for preschool-age children with disabilities. Ecological assessments. Instructional factors, such as classroom environments, activity planning, selection, use and modification of strategies, home-school communications, and consulting to staff in inclusive settings.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **873** Teaching the Content Areas to the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SPED/873\)](http://bulletin.unl.edu/courses/SPED/873)

SPED 873 (<http://bulletin.unl.edu/courses/SPED/873>) is for all students in the hearing impaired program.

Methods for teaching content areas (science, math, and social studies) to hearing impaired students from preschool through grade 12. Adapting curricula and materials from these areas for the hearing impaired students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **874** Language Arts and Literacy for the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SPED/874\)](http://bulletin.unl.edu/courses/SPED/874)

Assessment instruments, curricula and instructional methods for developing language and literacy in classrooms for hearing impaired children, preschool through grade 12. Methods for coordinating speech and/or language and/or auditory training program in the classroom with that in the speech and/or language therapy program.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **875** Itinerant Teaching Methods for Students who are Deaf or Hard of Hearing

[LINK \(http://bulletin.unl.edu/courses/SPED/875\)](http://bulletin.unl.edu/courses/SPED/875)

Methods for providing services for students with hearing loss, using itinerant and consultative models. Professional and parent in-service development, team-based problem solving, curriculum based pull-out services. Ecological assessment and management of deafness related technology in inclusive settings. Supervision of interpreters and paraprofessionals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **876** Language Development for Teachers

[LINK \(http://bulletin.unl.edu/courses/SPED/876\)](http://bulletin.unl.edu/courses/SPED/876)

Introduction to the foundations of normal speech and language development and potential difficulties in both early stages and in the classroom. Analysis of child language samples. Strategies for explaining language development to parents and professional colleagues.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

SPED **881** Methods for Students with Intellectual and Severe Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)

Prereqs:
SPED 480 (<http://bulletin.unl.edu/courses/SPED/480>) / 880 (<http://bulletin.unl.edu/courses/SPED/880>)

SPED 881 (<http://bulletin.unl.edu/courses/SPED/881>) requires observations in schools and applied assignments.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

Planning, implementing, and evaluating effective longitudinal education for individuals with intellectual impairments and severe disabilities. Knowledge and skills regarding best practices within inclusive education settings for these learners emphasizing an ecological and functional model that addresses useful skills in current and future environments.

SPED **882** **Specialized Instruction for Students with Severe and Multiple Disabilities** [LINK \(http://bulletin.unl.edu/courses/SPED/882\)](http://bulletin.unl.edu/courses/SPED/882)

Prereqs:
SPED *881 for the Severely/Multihandicapped endorsement program or SPED *862 for Preschool Handicapped endorsement program; and permission. Majors in severe disabilities must parallel with SPED 896P (<http://bulletin.unl.edu/courses/SPED/896P>) (1 cr).

This course is a prerequisite for: [SPED 981 \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

SPED *882 requires observations in schools and applied assignments.

Selection, design, and implementation of best practice instruction for students with severe disabilities, multiple disabilities, or deaf-blindness.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED **886** **Assessment, Evaluation, and Instruction of** [LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)
Crosslisted as TEAC 886

This course is a prerequisite for: [EDPS 989 \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)

TEAC/SPED *886 includes case study and planning for special student populations.

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

- A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.
- B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED **890** **Workshop Seminar** [LINK \(http://bulletin.unl.edu/courses/SPED/890\)](http://bulletin.unl.edu/courses/SPED/890)

Refer to Workshop Seminars in Education under the “Education” section of this bulletin.

Campus:	
Course Delivery:	Classroom

SPED **892** **Special Topics in Education** [LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)
Crosslisted as EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED **893** **Workshop Seminar** [LINK \(http://bulletin.unl.edu/courses/SPED/893\)](http://bulletin.unl.edu/courses/SPED/893)

Refer to Workshop Seminars in Education under the “Education” section of this bulletin.

Campus:	
Course Delivery:	Classroom

SPED **897** **Student Teaching: Exceptional Learners** [LINK \(http://bulletin.unl.edu/courses/SPED/897\)](http://bulletin.unl.edu/courses/SPED/897)

897**Prereqs:**
Permission

Laboratory and teaching experience in the area(s) of specialization.

- A. Mainstream (1–12 cr)
- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented (EDPS *897J)
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments
- Y. Inclusion
- Z. Multicultural Education

Credit Hours:	1–9
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

SPED

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/SPED/899\)](http://bulletin.unl.edu/courses/SPED/899)**Prereqs:**
Admission to masters degree program and permission of major adviser

Credit Hours:	1–10
Campus:	
Course Delivery:	Classroom

SPED

907**Seminar in Special Education**[LINK \(http://bulletin.unl.edu/courses/SPED/907\)](http://bulletin.unl.edu/courses/SPED/907)**Prereqs:**
Permission

- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments

Credit Hours:	1–3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SPED

908**Resource Consultation Services**[LINK \(http://bulletin.unl.edu/courses/SPED/908\)](http://bulletin.unl.edu/courses/SPED/908)**Prereqs:**
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), and one of the following: *831, *851, *861, *881; or permission

Roles and functions of school resource personnel in serving as educational consultants to regular school staff.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED

932**Cognitive Strategy Instruction**[LINK \(http://bulletin.unl.edu/courses/SPED/932\)](http://bulletin.unl.edu/courses/SPED/932)**Prereqs:**
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *803, and *831 or permission

How to implement cognitive strategy instruction with students learning

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

difficulties. Practical model which allows students to successfully teach cognitive strategies. Metacognition, attribution training, and attention deficit disorders.

SPED
942 Strategic Approaches for EBD

[LINK \(http://bulletin.unl.edu/courses/SPED/942\)](http://bulletin.unl.edu/courses/SPED/942)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *804, and *841; or permission

Strategic therapy techniques for assessment and treatment of EBD.
A. Special Topics in EBD (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED
960 Family and School Collaboration in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/960\)](http://bulletin.unl.edu/courses/SPED/960)

Prereqs:
Professional experience or completion of one practicum and/or field experience with young children (birth to age 5) or other individuals ages 5 to 21 years who have disabilities

This course is a prerequisite for: [SPED 861 \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)

Functions and interactions of both family and education systems. Impact of having a child with a disability on the normal and stressed family system. Promote family–professional partnerships in assessment and intervention for the child and/or student with an IFSP/IEP. Communication skills are reviewed and practiced for effective teaming among educators and for interviewing, consulting, collaborating and coaching with family members and other community team members.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
980 Assessment of Students with Severe, Sensory, and Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/980\)](http://bulletin.unl.edu/courses/SPED/980)

Prereqs:
SPED *881 and *882; and permission

This course is a prerequisite for: [SPED 987E \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Designed to meet the needs of educators who conduct assessment of students with low incidence disabilities in school settings. Strategies emphasize assessing capabilities and needs in relationship to valued life outcomes. Processes of instructional outcomes. Some assessment conducted in schools and community settings. Learning outcomes individualized to match special education certification program.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SPED
981 Functional Assessment and Behavioral Support for Students with Severe Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

Prereqs:
SPED 882 (<http://bulletin.unl.edu/courses/SPED/882>) and permission. Majors in severe disabilities must parallel with SPED 896P (<http://bulletin.unl.edu/courses/SPED/896P>) (1 cr).

SPED 981 (<http://bulletin.unl.edu/courses/SPED/981>) requires observation in schools and applied assignments.

Assessment and intervention strategies for developing positive behavior support for students with severe disabilities or developmental disabilities who have challenging behavior. Rationale and principles for using an educative approach, functional behavior analysis, and a variety of individualized ecological and curricular interventions. Process of assessment conducted in school settings.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SPED
987E

Seminar in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Prereqs:
[SPED 980 \(http://bulletin.unl.edu/courses/SPED/980\)](http://bulletin.unl.edu/courses/SPED/980) and [981 \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

Credit Hours: 1-12
Campus:
Course Delivery: Classroom

SPED
990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/990\)](http://bulletin.unl.edu/courses/SPED/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours: 1-12
Campus:
Course Delivery: Classroom

SPED
995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/SPED/995\)](http://bulletin.unl.edu/courses/SPED/995)

Prereqs:
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours: 3
Max credits per degree: 18
Campus:
Course Delivery: Classroom

SPED
996A

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/SPED/996A\)](http://bulletin.unl.edu/courses/SPED/996A)

(1-12, max 12) Independent operational research under faculty supervision.

Campus:
Course Delivery: Classroom

SPED
996B

Readings in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/996B\)](http://bulletin.unl.edu/courses/SPED/996B)

Prereqs:
Permission

(1-12, max 12) Readings on selected problems in special education.

Campus:
Course Delivery: Classroom

SPED
997E

Resource Teacher Externship

[LINK \(http://bulletin.unl.edu/courses/SPED/997E\)](http://bulletin.unl.edu/courses/SPED/997E)

Prereqs:
SPED *802, *803

Extensive practicum experience in school settings for individuals preparing to serve as school resource teachers and consultants.

Credit Hours: 1-6
Campus:
Course Delivery: Classroom

SPED

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SPED/999\)](http://bulletin.unl.edu/courses/SPED/999)

999

Prereqs:
 Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Courses for SLPA (SLPA)

CYAF
891 **Special Topics in Human Sciences** [LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)
 Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMFD 891*

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SLPA
450/850 **Audiology for Educators of the Deaf or Hard of Hearing** [LINK \(http://bulletin.unl.edu/courses/SLPA/450\)](http://bulletin.unl.edu/courses/SLPA/450)

Anatomy and physiology of hearing; components of adequate evaluation for placement and educational planning; diagnosis using audiogram, functional and communication assessment; stimulation and utilization of residual hearing; and management of assistive and/or augmentative devices.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Web

SLPA
452/852 **Normal Language Development During School Years** [LINK \(http://bulletin.unl.edu/courses/SLPA/452\)](http://bulletin.unl.edu/courses/SLPA/452)

Normal syntactic, semantic, and pragmatic language development in school-age children and youth. Complex syntax, semantic development, pragmatic development, using language to learn, language-literacy relations, and abstract language development.

Credit Hours:	3
Course Delivery:	Classroom

SLPA
454/854 **Research Methodology in Speech-Language Pathology and Audiology** [LINK \(http://bulletin.unl.edu/courses/SLPA/454\)](http://bulletin.unl.edu/courses/SLPA/454)

Prereqs:
 Speech-language pathology and audiology major.

Introduction to research principles, methods, and design. Survey and critique of research in special education and communication disorders.

Credit Hours:	3
Course Delivery:	Classroom

SLPA
461/861 **Language Disorders: Preschool Level** [LINK \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

Prereqs:
 Parallel [SLPA 461L \(http://bulletin.unl.edu/courses/SLPA/461L/861L\)](http://bulletin.unl.edu/courses/SLPA/461L/861L)
<http://bulletin.unl.edu/courses/SLPA/861L>.

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

Characteristics of language impaired preschool children and the nature of their disorders. Introduction to principles of assessment and treatment.

SLPA

Language Disorders: Preschool Level Lab

[LINK \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)

461L/861L

Prereqs:

Parallel with [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461) / [861 \(http://bulletin.unl.edu/courses/SLPA/861\)](http://bulletin.unl.edu/courses/SLPA/861).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

Practical application of language assessment and intervention in preschool children with language disorders.

Credit Hours:	1
Course Format:	Lab
Course Delivery:	Classroom

SLPA

Augmentative Communication

[LINK \(http://bulletin.unl.edu/courses/SLPA/486\)](http://bulletin.unl.edu/courses/SLPA/486)

486/886

Speech pathology students must register for 3 cr only; special education students may register for 2-3

Introduction to the augmentative communication options for persons unable to speak or write because of physical, language, or cognitive disability.

Credit Hours:	2-3
Course Delivery:	Classroom

SLPA

Linguistic Needs of Bilingual and Culturally Different Students

[LINK \(http://bulletin.unl.edu/courses/SLPA/488\)](http://bulletin.unl.edu/courses/SLPA/488)

488/888

Prereqs:

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [251 \(http://bulletin.unl.edu/courses/SLPA/251\)](http://bulletin.unl.edu/courses/SLPA/251) or permission.

Theoretical and applied information about situational factors which have an impact on spoken and written language; addresses how individual differences due to gender, handicapping conditions, socio-economic status, and cultural-ethnic background contribute to diversity in communication patterns and often act as a barrier to successful interactions in learning and social settings.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	9 [?]

SLPA

Readings and Research in Speech-Language Pathology and Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/496\)](http://bulletin.unl.edu/courses/SLPA/496)

496/896

Prereqs:

Permission.

Credit Hours:	1-3
Course Delivery:	Classroom

SLPA

Clinical Phonology: Assessment and Management

[LINK \(http://bulletin.unl.edu/courses/SLPA/851\)](http://bulletin.unl.edu/courses/SLPA/851)

851

Prereqs:

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [464 \(http://bulletin.unl.edu/courses/SLPA/464\)](http://bulletin.unl.edu/courses/SLPA/464) or permission

Theoretical foundations; applied clinical phonology.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

Neurological Foundations of Speech and Language

[LINK \(http://bulletin.unl.edu/courses/SLPA/853\)](http://bulletin.unl.edu/courses/SLPA/853)

853

Basic concepts of neurology, protection and blood supply of the Central Nervous System (CNS), anatomical structures of the CNS, neuromotor control of speech, cranial nerves for speech production and neuron motor disorders.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

862**Language Disorders in Special Populations**[LINK \(http://bulletin.unl.edu/courses/SLPA/862\)](http://bulletin.unl.edu/courses/SLPA/862)

Advanced information about language disorders, assessment, and intervention in various populations.

- A. Birth to Three: Communication Assessment and Intervention
- E. Preadolescents and Adolescents
- J. Severe Disabilities and Autism: Communication Assessment and Intervention
- K. Special Topics in Language Disorders

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

SLPA

863**Language Disorders in Elementary School-aged Population**[LINK \(http://bulletin.unl.edu/courses/SLPA/863\)](http://bulletin.unl.edu/courses/SLPA/863)

Advanced information about language disorders, assessment, and intervention in elementary school-aged children.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

865**Voice Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/865\)](http://bulletin.unl.edu/courses/SLPA/865)**Prereqs:**

[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455)

Etiology and symptoms of voice disorders, procedures used in clinical evaluation, and methods and procedures used in therapy.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

884**Speech and Language Development of the Hearing Impaired**

Crosslisted as *SPED 884*

[LINK \(http://bulletin.unl.edu/courses/SLPA/884\)](http://bulletin.unl.edu/courses/SLPA/884)

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

885**Fluency Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/885\)](http://bulletin.unl.edu/courses/SLPA/885)

Research related to the nature, diagnosis and clinical management of stuttering is considered. Therapy models are presented along with data bearing on the efficacy of particular approaches. Specific rehabilitation procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

Language and Learning Disorders[LINK \(http://bulletin.unl.edu/courses/SLPA/887\)](http://bulletin.unl.edu/courses/SLPA/887)

887**Prereqs:**
For non-SLPA majors only

Review of prominent theories relating language to cognitive development and learning; student interaction on how varying styles and abnormal skills influence normal learning; how modifications can be made in materials content and classrooms to accommodate a child that has a language and learning disorder.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/SLPA/890\)](http://bulletin.unl.edu/courses/SLPA/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SLPA

892**Counseling and Behavior Issues in Speech Language Pathology**[LINK \(http://bulletin.unl.edu/courses/SLPA/892\)](http://bulletin.unl.edu/courses/SLPA/892)

Basic skills in counseling and behavior management as applied to the field of communication disorders. Practical, direct application to students' clinical work with individuals with a variety of communication disorders.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

SLPA

893**Clinical Decision Making**[LINK \(http://bulletin.unl.edu/courses/SLPA/893\)](http://bulletin.unl.edu/courses/SLPA/893)

Critical Thinking skills necessary for decision-making during the assessment and treatment of individuals with communication disorders. Understanding and applying clinical processes related to the practice of speech-language pathology.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

SLPA

897**Advanced Practicum**[LINK \(http://bulletin.unl.edu/courses/SLPA/897\)](http://bulletin.unl.edu/courses/SLPA/897)**Prereqs:**
Completion of the undergraduate preprofessional program

Supervised practicum experiences provided with difficult speech, language and/or hearing problems in a variety of clinical, medical, geriatric, rehabilitational and public school settings.

- A. Audiology (1-3 cr per sem)
- B. Speech/Language Pathology (1-3 cr per sem)
- E. Externship (1-3 cr per sem)
- G. Public Schools (1-3 cr per sem)
- T. Externship in Audiology (1-6 cr per sem, max 12)

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Field
Campus:	
Course Delivery:	Classroom

SLPA

898**Special Topics in Speech Pathology and Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/898\)](http://bulletin.unl.edu/courses/SLPA/898)**Prereqs:**
Permission

Special topics in speech pathology and audiology.

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

SLPA

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/SLPA/899\)](http://bulletin.unl.edu/courses/SLPA/899)**Prereqs:****Admission to masters degree program and permission of major adviser****Credit Hours:** 1-10**Campus:****Course Delivery:** Classroom

SLPA

902**Advanced Clinical Evaluation**[LINK \(http://bulletin.unl.edu/courses/SLPA/902\)](http://bulletin.unl.edu/courses/SLPA/902)

Instruction and practice in understanding, applying, and interpreting advanced clinical tests. Understanding the use of differential diagnostic tests used in assessment of peripheral and central lesions.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

SLPA

904**Basic Instrumentation**[LINK \(http://bulletin.unl.edu/courses/SLPA/904\)](http://bulletin.unl.edu/courses/SLPA/904)

Basic electrical theory and practical electronic information for the audiologist. Basic electrical and electronic information applicable to hearing, perception and acoustics. Basic electronics and electronic components, analog and digital circuits, transducers, calibration of audiometric instruments, amplifiers, attenuators and test equipment.

Credit Hours: 3**Course Format:** Lab, Lecture**Campus:****Course Delivery:** Classroom

SLPA

906**Advanced Clinical Assessment II**[LINK \(http://bulletin.unl.edu/courses/SLPA/906\)](http://bulletin.unl.edu/courses/SLPA/906)

Issues of professionalism and the development of best-practice models in Audiology. Relationship-centered patient care and the impact of multicultural issues on the practice of Audiology. Use of clinical decision analysis and evidence-based practice. Application to the common clinical assessment tools discussed in the "Advanced Audiological Assessment I" course.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

SLPA

908**Physiological Acoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/908\)](http://bulletin.unl.edu/courses/SLPA/908)

Pneumatic/mechanical/hydraulic/electrical interfaces involved in the transduction of acoustic energy through the auditory system. Investigation of external ear biophysics, the middle ear transfer function, cochlear hydrodynamics and hydro-mechanics, and auditory biopotentials.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

SLPA

910**Auditory Signal Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/910\)](http://bulletin.unl.edu/courses/SLPA/910)

Principles of signal processing relevant to tests of hearing and to theories of functioning of the auditory system. Introduction of concepts in mathematics, vibration and acoustics. Time- and frequency-domain representations of signals, digital filtering, analysis of lumped-element circuits, linear and nonlinear signal analyses, modulation theory, and the effect of noise on measurements. Applications relevant to audiology including hearing aid performance and measurements, middle-ear transmission, cochlear mechanics, and auditory-nerve firing patterns. Application of these models to understanding physiological sources of conductive and sensorineural

Credit Hours: 3**Campus:****Course Delivery:** Classroom

hearing loss.

SLPA
912

Psychoacoustics

[LINK \(http://bulletin.unl.edu/courses/SLPA/912\)](http://bulletin.unl.edu/courses/SLPA/912)

Psychoacoustic aspects of audition, including psychoacoustic instrumentation, masking level differences, psychoacoustical scaling, difference limen for intensity and frequency, loudness, critical bands and critical ratios, absolute threshold measurement, differential threshold measurement, and temporal summation. Brief investigations of certain psychoacoustic phenomena.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
916

Medical Aspects of Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/916\)](http://bulletin.unl.edu/courses/SLPA/916)

Effects of, and principles of, medical management of disorders of the cochlea, retrocochlear region, and central auditory mechanism. Anatomy and physiology of the inner ear and central auditory pathways, function and physiology of the vestibule and labyrinth, and histology and biochemistry of the inner ear and ascending auditory tracts.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
918

Auditory Assessment of Infants and Children

[LINK \(http://bulletin.unl.edu/courses/SLPA/918\)](http://bulletin.unl.edu/courses/SLPA/918)

Prereqs:
[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Development of the auditory system in infants and young children. Techniques used in differential diagnosis, and screening of auditory disorders in the pediatric population.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
920

Electrophysiological Assessment of Hearing

[LINK \(http://bulletin.unl.edu/courses/SLPA/920\)](http://bulletin.unl.edu/courses/SLPA/920)

Instrumentation and procedures for electrophysiologic evaluation of the auditory system. Procedures and special tests include Electrocochleography, Auditory Brainstem Response, Middle Latency Response, Late Cortical Response, and others.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
922

Pharmacology for Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/922\)](http://bulletin.unl.edu/courses/SLPA/922)

Introduction to pharmacological chemistry, drugs, and drug interactions. Ototoxic drugs and other drugs frequently seen in patients in audiology practice settings.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA
924

Sensory Technology and Rehabilitation for the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SLPA/924\)](http://bulletin.unl.edu/courses/SLPA/924)

Prereqs:
[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Students will initiate and carry out directed laboratory assignments.

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

Conventional analog hearing aids which includes: the design and operation of hearing aids, electroacoustic measurements and accompanying instrumentation, earmold and plumbing acoustics, evaluation and selection procedures (adults), orientation

SLPA

926

Sensory Technology and Rehabilitation for the Hearing Impaired II [LINK \(http://bulletin.unl.edu/courses/SLPA/926\)](http://bulletin.unl.edu/courses/SLPA/926)

Prereqs:

SLPA 271 (<http://bulletin.unl.edu/courses/SLPA/271>) or equivalent

Students will be expected to engage in class presentations. Various assistive technologies, other than conventional analog hearing aids, utilized by persons who are deaf and hard of hearing. Technologies such as cochlear implants, tactile devices, radio frequency systems, digital hearing aids, and telephone, television and alerting devices. Information regarding pediatric amplification, counseling, and speechreading introduced.

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

SLPA

928

Hearing Conservation and Industrial Audiology [LINK \(http://bulletin.unl.edu/courses/SLPA/928\)](http://bulletin.unl.edu/courses/SLPA/928)

Theories and basic resources for participation in industrial, government, or community hearing conservation programs.

Credit Hours: 2

Campus:

Course Delivery: Classroom

SLPA

930

Genetics of Hearing Loss [LINK \(http://bulletin.unl.edu/courses/SLPA/930\)](http://bulletin.unl.edu/courses/SLPA/930)

The genetic basis for hearing loss.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SLPA

932

Vestibular Assessment I [LINK \(http://bulletin.unl.edu/courses/SLPA/932\)](http://bulletin.unl.edu/courses/SLPA/932)

Students will initiate and carry out directed laboratory assignments.

The first of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Normal anatomy and physiology of the balance and ocular motor systems, contrasted with a wide range of pathological conditions. Electronystagmography (video-nystagmography two- and three-dimensional recordings) and assessment of the otolith organs.

Credit Hours: 4

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

SLPA

934

Vestibular Assessment II [LINK \(http://bulletin.unl.edu/courses/SLPA/934\)](http://bulletin.unl.edu/courses/SLPA/934)

The second of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Advanced techniques for patient assessment using rotational chair and posturography protocols. Techniques for full assessment in an office situation without extensive equipment. Options for treatment and management of this group of patients. Vestibular and balance rehabilitation therapy program development.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

936**Implantable Prosthetics**[LINK \(http://bulletin.unl.edu/courses/SLPA/936\)](http://bulletin.unl.edu/courses/SLPA/936)

Design, operation, candidacy, assessment, surgical procedures, fitting, verification, and rehabilitation procedures related to implantable prosthetic devices for individuals who are deaf and hard of hearing. Cochlear implants, bone anchored hearing aids, implantable middle ear devices, and auditory brainstem implants.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

938**Private Practice and/or Clinic Management**[LINK \(http://bulletin.unl.edu/courses/SLPA/938\)](http://bulletin.unl.edu/courses/SLPA/938)

Principles and procedures for starting and surviving as an independent practitioner in audiology. Practice management strategies for use in any audiological setting.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA

940**Aural Rehabilitation Across the Lifespan**[LINK \(http://bulletin.unl.edu/courses/SLPA/940\)](http://bulletin.unl.edu/courses/SLPA/940)

Habilitation (for pre-lingual deaf and hard of hearing infants and toddlers) and rehabilitation efforts for individuals of all ages who are deaf or hard of hearing.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

942**Seminar in Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/942\)](http://bulletin.unl.edu/courses/SLPA/942)

Research and clinical procedures; findings and implications in audiology and hearing science.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

956**Language Study of Teachers of Deaf and Hard of Hearing (DHH)** [LINK \(http://bulletin.unl.edu/courses/SLPA/956\)](http://bulletin.unl.edu/courses/SLPA/956)Crosslisted as *SPED 956*

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

964**Speech Perception and Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/964\)](http://bulletin.unl.edu/courses/SLPA/964)**Prereqs:**

[SLPA 250 \(http://bulletin.unl.edu/courses/SLPA/250\)](http://bulletin.unl.edu/courses/SLPA/250) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or permission

Human and computer perception and processing of speech. The speech code and its representation in the brain, laboratory techniques for perceptual experimentation, acoustic analysis of speech, and computer synthesis of speech.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

966**Swallowing Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/966\)](http://bulletin.unl.edu/courses/SLPA/966)

Swallowing disorders of children and adults. Procedures used in assessment, diagnosis, and intervention.

Credit Hours:	2
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Campus:	
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Course Delivery:	Classroom
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SLPA

967**Cleft Palate**[LINK \(http://bulletin.unl.edu/courses/SLPA/967\)](http://bulletin.unl.edu/courses/SLPA/967)**Prereqs:**

[SLPA 464 \(http://bulletin.unl.edu/courses/SLPA/464\)](http://bulletin.unl.edu/courses/SLPA/464) or equivalent

Communication, dental, medical, and associated problems related to cleft palate.

Credit Hours:	2
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Campus:	
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Course Delivery:	Classroom
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SLPA

968**Motor Speech Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/968\)](http://bulletin.unl.edu/courses/SLPA/968)**Prereqs:**

SLPA *853

Motor speech disorders resulting from neuropathology of the central and peripheral nervous systems as found in cerebral palsy, Parkinsonism, and other developmental and acquired neuromotor problems of children and adults.

Credit Hours:	2
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Campus:	
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Course Delivery:	Classroom
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SLPA

980A**Seminar in Speech Physiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/980A\)](http://bulletin.unl.edu/courses/SLPA/980A)**Prereqs:**

[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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SLPA

980B**Seminar in Speech Acoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/980B\)](http://bulletin.unl.edu/courses/SLPA/980B)**Prereqs:**

[SLPA 455 \(http://bulletin.unl.edu/courses/SLPA/455\)](http://bulletin.unl.edu/courses/SLPA/455) and [456 \(http://bulletin.unl.edu/courses/SLPA/456\)](http://bulletin.unl.edu/courses/SLPA/456) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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SLPA

981**Seminar in Speech Pathology**[LINK \(http://bulletin.unl.edu/courses/SLPA/981\)](http://bulletin.unl.edu/courses/SLPA/981)**Prereqs:**

SLPA *851, *865, 967, and/or 968

Research procedures, findings and clinical implications in the following areas:

B. Fluency Disorders (1-3 cr)

Credit Hours:	1-3
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Max credits per degree:	6
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Campus:	
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Course Delivery:	Classroom
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- D. Voice Disorders (1–3 cr)
- E. Motor Speech Disorder (1–3 cr)

SLPA
983

Seminar in Language

[LINK \(http://bulletin.unl.edu/courses/SLPA/983\)](http://bulletin.unl.edu/courses/SLPA/983)

Prereqs:
[SLPA 251 \(http://bulletin.unl.edu/courses/SLPA/251\)](http://bulletin.unl.edu/courses/SLPA/251) or [852 \(http://bulletin.unl.edu/courses/SLPA/852\)](http://bulletin.unl.edu/courses/SLPA/852) or permission

Research procedures, findings and implications in language pathology and treatment in the areas of development, evaluation and habilitation.
 A. Child Language Development and Disorders (1–3 cr)
 B. Adolescent/Adult Language Development and Disorders (1–3 cr)
 E. Augmentative/Alternative Communication (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SLPA
984

Seminar in Augmentative Communication

[LINK \(http://bulletin.unl.edu/courses/SLPA/984\)](http://bulletin.unl.edu/courses/SLPA/984)

Prereqs:
[SLPA 886 \(http://bulletin.unl.edu/courses/SLPA/886\)](http://bulletin.unl.edu/courses/SLPA/886)

Advanced seminar on research literature in the augmentative communication field.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
985

Traumatic Brain Injury

[LINK \(http://bulletin.unl.edu/courses/SLPA/985\)](http://bulletin.unl.edu/courses/SLPA/985)

Prereqs:
 SLPA *853

Assessment and treatment of child and adult cognitive and communication disorders resulting from traumatic brain injury.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA
987

Aphasia in Adults

[LINK \(http://bulletin.unl.edu/courses/SLPA/987\)](http://bulletin.unl.edu/courses/SLPA/987)

Prereqs:
 SLPA *853

Adult language disorders resulting from stroke or other acquired central nervous system insult. Includes historical/theoretical development of understanding, cerebral dominance for language, classifications, rationale for diagnostic and therapeutic management, prognostic factors, agnosias and apraxia.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA
990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SLPA/990\)](http://bulletin.unl.edu/courses/SLPA/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SLPA
994

Doctoral Capstone Thesis

[LINK \(http://bulletin.unl.edu/courses/SLPA/994\)](http://bulletin.unl.edu/courses/SLPA/994)

Selection of the topic for this project should take place no later than the

Credit Hours:	3
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summer of the third year by consultation with the project adviser. Enrollment in [SLPA 994](http://bulletin.unl.edu/courses/SLPA/994) (<http://bulletin.unl.edu/courses/SLPA/994>) is required during each semester that the project is underway. Capstone experience prepared in the form of a research project paper containing a significant treatment of some aspect of audiology.

Max credits per degree: 9

Course Format: Independent Study

Campus:

Course Delivery: Classroom

SLPA

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/SLPA/995\)](http://bulletin.unl.edu/courses/SLPA/995)

Prereqs:
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours: 3

Max credits per degree: 18

Campus:

Course Delivery: Classroom

SLPA

996

Research Problems Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/SLPA/996\)](http://bulletin.unl.edu/courses/SLPA/996)

Prereqs:
Permission

Credit Hours: 1-9

Campus:

Course Delivery: Classroom

SLPA

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SLPA/999\)](http://bulletin.unl.edu/courses/SLPA/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

Courses for TEAC (TEAC)

BIOC

869

Chemistry for Secondary School Classrooms

Crosslisted as *BIOC 883*, *CHEM 869*, *TEAC 869*

[LINK \(http://bulletin.unl.edu/courses/BIOC/869\)](http://bulletin.unl.edu/courses/BIOC/869)

Credit in this course will not count towards a graduate degree in chemistry or biochemistry or biological sciences. Course taught via World Wide Web. Chemistry content for high school teachers organized according to the National Science Education Standards. Individual course coverage includes: content, integration with other sciences and mathematics, graphing calculators, probe-experiments, simulations, at-home experiments, teaching materials, and industrial applications related to the title description.

- A. Structure and Properties of Matter: Water and Solutions (1 cr)
- B. Structure and Properties of Matter: Periodicity (1 cr)
- D. Structure and Properties of Matter: Bonding and Structure (1 cr)
- E. Structure and Properties of Matter: Carbon Chemistry and Polymers (1 cr)
- J. Structure and Properties of Matter: Gases and the Atmosphere (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1 cr)
- L. Structure and Properties of Matter: Condensed States and Materials Science (1 cr)
- M. Interactions of Matter and Energy (1 cr)
- N. Chemistry of Life Processes: DNA (1 cr)

Credit Hours: 1

Max credits per degree: 12

Campus:

Course Delivery: Classroom

- P. Chemistry of Life Processes: Energy and Metabolism (1 cr)
- Q. Chemical Reactions: Equations and their Consequences (1 cr)
- R. Chemical Reactions: Acids and Bases (1 cr)
- T. Chemical Reactions: Kinetics (1 cr)
- U. Chemical Reactions: Oxidation, Reduction and Electrochemistry (1 cr)
- V. Equilibrium: Unifying Theme (1 cr)
- W. Conservation of Energy and the Increase in Disorder: Thermodynamics (1 cr)
- Y. Inquiry and the Nature of Science: Analysis and Instrumentation (1 cr)
- Z. Structure of Atoms: Nuclear Chemistry (1 cr)

CHEM

874**Topics in Chemical Pedagogy**Crosslisted as *TEAC 874*[LINK \(http://bulletin.unl.edu/courses/CHEM/874\)](http://bulletin.unl.edu/courses/CHEM/874)

A maximum combined total of 12 hours from TEAC *869 and/or *874 may be counted toward a masters degree. Credit in this course will not count towards a graduate degree in chemistry. Courses are Web-based. Topical chemistry content for high school teachers organized according to the National Science Education Standards.

- A. Green Chemistry (2-3 cr)
- D. Demonstrations for High School Chemistry (1-3 cr)
- E. Experiments for High School Chemistry (1-3 cr)
- J. Developing a Safety Culture (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1-3 cr)
- L. Addressing Misconceptions (1-3 cr)
- M. Mathematics Integration ([MATH 874M](http://bulletin.unl.edu/courses/MATH/874M) (<http://bulletin.unl.edu/courses/MATH/874M>)) (2-3 cr) May be counted towards the MAT and MScT degrees in mathematics and statistics, not the MA, MS, or PhD.
- N. Inquiry Strategies (1-3 cr)
- P. Chemistry in the Workplace (1-3 cr)
- Y. Graphing Calculator Activities (2-3 cr)

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

CHEM

875**Chemical Pedagogy in the High School Laboratory**Crosslisted as *TEAC 875*[LINK \(http://bulletin.unl.edu/courses/CHEM/875\)](http://bulletin.unl.edu/courses/CHEM/875)

Credit in this course will not count towards a graduate degree in chemistry. Laboratory-based courses addressing specific issues connected with teaching laboratory work in high school chemistry programs.

- A. Small-scale Experiments (1-3 cr)
- B. Technology Integration (3-6 cr)
- E. Inquiry Experiments (1-3 cr)
- K. At-home Experiments (1-3 cr)
- P. Probe Experiments (1-3 cr)
- T. Traditional Experiments (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

COMM

427/827**Instructional Communication**Crosslisted as *TEAC 429/829*[LINK \(http://bulletin.unl.edu/courses/COMM/427\)](http://bulletin.unl.edu/courses/COMM/427)**Prereqs:**

Junior/senior standing; College of Education and Human Sciences major; COMM 200 (<http://bulletin.unl.edu/courses/COMM/200>), 201 (<http://bulletin.unl.edu/courses/COMM/201>); or permission.

Advanced introductory course in instructional communication, focusing on understanding variables associated with the communication process in instructional settings and managing instructional communication more effectively. Provides an experimental and a cognitive understanding of the role of communication in the instructional process.

Credit Hours:	3
Course Delivery:	Classroom

CYAF

814**Evaluation in Career and Technical Education**Crosslisted as *TEAC 814*[LINK \(http://bulletin.unl.edu/courses/CYAF/814\)](http://bulletin.unl.edu/courses/CYAF/814)

Two aspects of evaluation in the classroom: 1) selection and use of evaluation in assessing learning, and 2) consideration of conceptual and methodological issues in conducting evaluation to determine and account for the effectiveness of programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

CYAF
891

Special Topics in Human Sciences

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMFD 891*

[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDAD
855

Teaching Learners to Learn

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
948

Instructional Leadership: Emerging Trends and Practices

Crosslisted as *TEAC 948*

[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD
991

Field Studies in Education

Crosslisted as *NUTR 991, TEAC 991*

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS
935

Seminar in Qualitative Research

Crosslisted as *TEAC 935*

[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)

Prereqs:
EDUC 900K (<http://bulletin.unl.edu/courses/EDUC/900K>) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

989**Psychology of Reading**Crosslisted as *TEAC 989*[LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)**Prereqs:**TEAC *811 or 841 or [SPED 886](http://bulletin.unl.edu/courses/SPED/886)<http://bulletin.unl.edu/courses/SPED/886>

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL

895A**Nebraska Writing Project Internship**Crosslisted as *TEAC 895A*[LINK \(http://bulletin.unl.edu/courses/ENGL/895A\)](http://bulletin.unl.edu/courses/ENGL/895A)**Prereqs:**

Permission

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL

992**Nebraska Humanities Project**Crosslisted as *TEAC 992*[LINK \(http://bulletin.unl.edu/courses/ENGL/992\)](http://bulletin.unl.edu/courses/ENGL/992)

Credit Hours:	1-24
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL

992B**Place Conscious Teaching**Crosslisted as *TEAC 992B*[LINK \(http://bulletin.unl.edu/courses/ENGL/992B\)](http://bulletin.unl.edu/courses/ENGL/992B)

Theory and practice of teaching writing, literature, and rhetoric in connection with local place, region, and community.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MUED

450/850**American Cultural Perspectives through Popular Music and Guitar**Crosslisted as *MUNM 450, TEAC 450/850*[LINK \(http://bulletin.unl.edu/courses/MUED/450\)](http://bulletin.unl.edu/courses/MUED/450)

Exploration of the historical, social and cultural context of late 19th and 20th century America through learning to play jazz and popular music on the guitar to provide an authentic, performance-based encounter in music.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
ACE Outcomes:	5 [?] , 7 [?]
Groups:	Music Education (MUED)

MUED

473/873**Approaches to Middle School General Music**Crosslisted as *TEAC 873*[LINK \(http://bulletin.unl.edu/courses/MUED/473\)](http://bulletin.unl.edu/courses/MUED/473)**Prereqs:**

Credit Hours:	3
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[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or permission.

For prospective new and experienced general music/middle school teachers. Characteristics of middle school students, materials, methodology, guitar and recorder techniques, and curriculum development.

Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Education (MUED)

MUED
845

Historical and Philosophical Foundations of American Music Education [LINK \(http://bulletin.unl.edu/courses/MUED/845\)](http://bulletin.unl.edu/courses/MUED/845)

Crosslisted as *TEAC 845*

Prereqs:
Undergraduate degree in MUED.

MUED 845 (http://bulletin.unl.edu/courses/MUED/845) is required for a graduate degree in music education.

Historical overview of American music education practices from the Singing School tradition to today. Major philosophical influences in American music education, writings regarding aesthetic education, equity, ethical practice, gender, meaning, and profundity. The writings of Stubley, Reimer, Mark, Gary, Hylton, Richmond and others are considered.

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture
Course Delivery:	Classroom

SPED
406/806

Reading and Writing Disabilities: Adolescents

[LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

Crosslisted as *TEAC 806*

Prereqs:
[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)/[800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800), [SPED 412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412)/[812 \(http://bulletin.unl.edu/courses/SPED/812\)](http://bulletin.unl.edu/courses/SPED/812), and [TEAC 441 \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Parallel [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)/[806A \(http://bulletin.unl.edu/courses/806A\)](http://bulletin.unl.edu/courses/806A).

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED
406A/806A

Reading Center Practicum II

[LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Crosslisted as *TEAC 806A*

Prereqs:
[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)/[800 \(http://bulletin.unl.edu/courses/800\)](http://bulletin.unl.edu/courses/800), [412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412)/[812 \(http://bulletin.unl.edu/courses/SPED/812\)](http://bulletin.unl.edu/courses/812), and [TEAC 441 \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Taken parallel with [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)/[806 \(http://bulletin.unl.edu/courses/806\)](http://bulletin.unl.edu/courses/806).

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

[SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)/[806A \(http://bulletin.unl.edu/courses/806A\)](http://bulletin.unl.edu/courses/806A) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

SPED
886

Assessment, Evaluation, and Instruction of

Crosslisted as *TEAC 886*

[LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)

This course is a prerequisite for: [EDPS 989 \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)

*TEAC/SPED *886 includes case study and planning for special student populations.*

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

- A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.
- B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED
892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:

[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or parallel; [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
402/802

Contemporary Children's Literature: Principles and Practices

[LINK \(http://bulletin.unl.edu/courses/TEAC/402\)](http://bulletin.unl.edu/courses/TEAC/402)

Prereqs:

[TEAC 302 \(http://bulletin.unl.edu/courses/TEAC/302\)](http://bulletin.unl.edu/courses/TEAC/302) and successful completion of student teaching or permission.

Contemporary literature for children, all forms and genres; development of meaningful and creative learning activities for children; professional readings and research related to children's literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
408/808

Improvement of Instruction in School Mathematics

[LINK \(http://bulletin.unl.edu/courses/TEAC/408\)](http://bulletin.unl.edu/courses/TEAC/408)

Techniques, plans, and procedures for improving instruction in mathematics. Analysis of current instructional and supervisory practices. Evaluation of research and instructional materials. A. Primary: K–3 (3 cr) B. Elementary: 4–6 (3 cr) E. Secondary: 7–12 (3 cr) J. Special Topics (3 cr)

Credit Hours:	3
Max credits per degree:	12
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC
411/811

Reading Processes and Practices

[LINK \(http://bulletin.unl.edu/courses/TEAC/411\)](http://bulletin.unl.edu/courses/TEAC/411)

Overview of reading processes and programs with attention to strategies for comprehension and word identification, approaches, and materials. A. Teaching Reading (3 cr) B. Special Topics in Reading (1–6 cr)

Credit Hours:	3
Course Delivery:	Classroom

TEAC
413/813

Studies in Teaching English as a Second Language

[LINK \(http://bulletin.unl.edu/courses/TEAC/413\)](http://bulletin.unl.edu/courses/TEAC/413)

Preparation for teaching K–12 learners whose language of nurture is not English. A. ESL: Acquisition (1–3 cr) B. ESL: Teaching and Curriculum (1–3 cr)

Credit Hours:	1–15
Max credits per degree:	15

TEAC **Teaching English Language Learners (ELLs) in Content Areas** [LINK \(http://bulletin.unl.edu/courses/TEAC/413M\)](http://bulletin.unl.edu/courses/TEAC/413M)**413M/813M**

[TEAC 413M \(http://bulletin.unl.edu/courses/TEAC/413M\)](http://bulletin.unl.edu/courses/TEAC/413M)/[813M \(http://bulletin.unl.edu/courses/TEAC/813M\)](http://bulletin.unl.edu/courses/TEAC/813M) is required for English Language Learner (ELL) certification.

Theory and pedagogy in the teaching of English Language Learners (ELLs) in course content areas at all levels of K–12 education. Identify and design linguistically and culturally responsive instruction for English learners in the disciplines (e.g. language arts, science, mathematics, social sciences).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC **Teaching English Overseas** [LINK \(http://bulletin.unl.edu/courses/TEAC/413P\)](http://bulletin.unl.edu/courses/TEAC/413P)**413P/413X/813P**

Methodologies for teaching English to speakers of other languages (TESOL) in international settings.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC **Inclusive Early Childhood Methods** [LINK \(http://bulletin.unl.edu/courses/TEAC/416\)](http://bulletin.unl.edu/courses/TEAC/416)**416/816**

Prereqs:
Admission to the Inclusive Early Childhood Teacher Education Program;
FACS 270 (<http://bulletin.unl.edu/courses/FACS/270>), [270L \(http://bulletin.unl.edu/courses/FACS/270L\)](http://bulletin.unl.edu/courses/FACS/270L), [374 \(http://bulletin.unl.edu/courses/FACS/374\)](http://bulletin.unl.edu/courses/FACS/374), and [374L \(http://bulletin.unl.edu/courses/FACS/374L\)](http://bulletin.unl.edu/courses/FACS/374L).

The creation and practice of developmentally appropriate instruction in curricular areas for K to 3rd grades. Role of the teacher and/or facilitator in relationship to the primary curriculum and learning environment. A. Literacy Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D \(http://bulletin.unl.edu/courses/TEAC/397D\)](http://bulletin.unl.edu/courses/TEAC/397D). B. Social Studies and Science Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D \(http://bulletin.unl.edu/courses/TEAC/397D\)](http://bulletin.unl.edu/courses/TEAC/397D). D. Mathematics Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel Math 200.

Credit Hours:	3
Max credits per semester:	9
Course Format:	Lecture
Course Delivery:	Classroom

TEAC **Teaching Writing in the Elementary School** [LINK \(http://bulletin.unl.edu/courses/TEAC/418\)](http://bulletin.unl.edu/courses/TEAC/418)**418/818**

Learning and teaching of writing with consideration given to developmental factors of children and adolescents.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Teaching Foreign Language in the Elementary School** [LINK \(http://bulletin.unl.edu/courses/TEAC/420\)](http://bulletin.unl.edu/courses/TEAC/420)**420/820**

Theory, research and practice of most recent foreign language models and strategies.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Coordination in Occupational Training Programs** [LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)**425/825**

Crosslisted as *EDAD 825*

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours: 1-3

Course Delivery: Classroom

TEAC **Introduction to Philosophy of Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/430\)](http://bulletin.unl.edu/courses/TEAC/430)

430/830

Open to advanced undergraduates and graduate students

Fundamental ideas and skills that students can use to begin to form personal philosophical perspectives on education that can be justified intellectually, practically, and ethically. Using case studies of realistic school situations and the theoretical work of a range of writers in education, students explore conceptions of teaching, learning, curriculum, and the relationship between school and society.

Credit Hours: 3

Course Delivery: Classroom

TEAC **Studies in the Foundations of Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/431\)](http://bulletin.unl.edu/courses/TEAC/431)

431/831

Social and cultural analyses of curriculum, teaching, and education policy from disciplinary perspectives. A. The Anthropology of Education (3 cr) B. The History of Education (3 cr) E. The Sociology of Education (3 cr) J. Special Topics (3 cr)

Credit Hours: 3

Max credits per degree: 12

Course Delivery: Classroom

TEAC **Higher Education in America**

[LINK \(http://bulletin.unl.edu/courses/TEAC/432\)](http://bulletin.unl.edu/courses/TEAC/432)

432/832

Prereqs:
12 hrs education.

History and development of America's colleges and universities and recent trends and problems in higher education.

Credit Hours: 3

Course Delivery: Classroom

TEAC **Comparative Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/433\)](http://bulletin.unl.edu/courses/TEAC/433)

433/833

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

TEAC **Comparative Education Survey**

[LINK \(http://bulletin.unl.edu/courses/TEAC/433A\)](http://bulletin.unl.edu/courses/TEAC/433A)

433A/833A

Comparative Education investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'A' format is a survey course that considers examples from all over the world. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours: 3

Max credits per semester: 3

Course Format: Lecture 3

Course Delivery: Classroom

TEAC **Comparative Education: Special Topics/Travel Study**

[LINK \(http://bulletin.unl.edu/courses/TEAC/433B\)](http://bulletin.unl.edu/courses/TEAC/433B)

433B/833B

Prereqs:
None

This course could be taken more than once for additional credits assuming the student uses it for travel-study to different places. For example, a student could not visit South Korea twice with the same professor teaching the same syllabus, but could visit South Korea once (as one 3-hour course) and South Africa (as another 3-hour course).

Course investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours:	3
Max credits per semester:	3
Max credits per degree:	9
Course Format:	Field 3
Course Delivery:	Classroom

TEAC

Ethics and Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/434\)](http://bulletin.unl.edu/courses/TEAC/434)

434/834

Open to advanced undergraduates and graduate students

Basic issues in ethics and education. Using theoretical material and case studies, students consider such ideas and issues as the nature of moral judgment, equality, justice, caring, and respect for persons, and discuss how educators might respond in ethically justifiable ways to difficult situations they may encounter.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Latin American Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/436\)](http://bulletin.unl.edu/courses/TEAC/436)

436/836

Prereqs:
12 hours education, social sciences, or Latin American Studies; or permission.

Survey of contemporary practices and problems in Latin American education, with special emphasis on the role of education in the national development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Linguistics for the Classroom School Teacher

[LINK \(http://bulletin.unl.edu/courses/TEAC/438\)](http://bulletin.unl.edu/courses/TEAC/438)

438/838

Prereqs:
Admission to the Teacher Education Program.

Analysis of various aspects of linguistic study including dialects, usage, modern grammar, semantics, lexicography, etc., and their application in the K-12 school English classroom. Investigation and clarification of language concepts and the development of teaching materials that can be used in the classroom.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Literature for Adolescents

[LINK \(http://bulletin.unl.edu/courses/TEAC/439\)](http://bulletin.unl.edu/courses/TEAC/439)

439/839

Prereqs:
Admission to a Teacher Education Program.

Wide range of young adult literature available for use in schools. Critical and rhetorical tools for responding to a variety of literary texts and techniques for eliciting a wider range of responses to literature; consideration for readers aged 11-16.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Content Area Reading, Grades 4–12LINK (<http://bulletin.unl.edu/courses/TEAC/441>)**441/841**

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>),
[SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>)

Simultaneous teaching of academic content and functional teaching of reading in the content areas; assessment of comprehension, vocabulary/concept attainment; analyses of text; improvement of content area learning through reading/writing development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Learning and Teaching Principles and PracticesLINK (<http://bulletin.unl.edu/courses/TEAC/451>)**451/851****Prereqs:**

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306](http://bulletin.unl.edu/courses/TEAC/306) (<http://bulletin.unl.edu/courses/TEAC/306>) or [406](http://bulletin.unl.edu/courses/TEAC/406) (<http://bulletin.unl.edu/courses/TEAC/406>)/[806](http://bulletin.unl.edu/courses/TEAC/806) (<http://bulletin.unl.edu/courses/TEAC/806>). Investigates topics/issues impacting the teaching of art, including the theory and practice of discipline-based art education. Planning and incorporation of innovative approaches embracing the diversity of students. K. Career and Technical Education Prereq: As listed above. Procedures for writing, selecting and organizing subject matter for instruction. L. Methods of Teaching Information Technology (3 cr) Prereq: As listed above and [TEAC 259](http://bulletin.unl.edu/courses/TEAC/259) (<http://bulletin.unl.edu/courses/TEAC/259>); parallel [TEAC 397L](http://bulletin.unl.edu/courses/TEAC/397L) (<http://bulletin.unl.edu/courses/TEAC/397L>) or [894L](http://bulletin.unl.edu/courses/TEAC/894L) (<http://bulletin.unl.edu/courses/TEAC/894L>). Objectives, teaching materials, and methods of presentation emphasizing the organization and management of computer science instruction. [IS]N. Secondary Language Arts (3 or 4 cr) Prereq: As listed above, including [ENGL 357](http://bulletin.unl.edu/courses/ENGL/357) (<http://bulletin.unl.edu/courses/ENGL/357>), [377](http://bulletin.unl.edu/courses/ENGL/377) (<http://bulletin.unl.edu/courses/ENGL/377>); and [TEAC 438](http://bulletin.unl.edu/courses/TEAC/438) (<http://bulletin.unl.edu/courses/TEAC/438>)/[838](http://bulletin.unl.edu/courses/TEAC/838) (<http://bulletin.unl.edu/courses/TEAC/838>); and grade average of "B" (3.0) or better in subject-area. Theoretical issues in the teaching and learning of writing, language, and literature. *O. Marketing Education Prereq: As listed above and [TEAC 452K](http://bulletin.unl.edu/courses/TEAC/452K) (<http://bulletin.unl.edu/courses/TEAC/452K>). Objectives, teaching materials, selection, and organization of subject matter, and methods of instruction and evaluation in marketing. [IS]P. Secondary Mathematics Prereq: As listed above. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners. [IS]R. Secondary Modern Languages Prereq: As listed above. Investigates issues in second language learning and teaching from the perspective of proficiency: contextualized practice in reading, writing, speaking, listening, and culture. Methodological approaches, review of research, testing guidelines, accuracy, the affective and cognitive needs of students, and the incorporation of authentic materials/language. [IS]V. Secondary Science Prereq: As listed above and parallel with [TEAC 397](http://bulletin.unl.edu/courses/TEAC/397) (<http://bulletin.unl.edu/courses/TEAC/397>). Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners. [IS]W. Secondary Social Science Prereq: As listed above. Theoretical issues in teaching and learning in the individual and integrated social sciences.

Credit Hours:	3–4
Course Delivery:	Classroom

TEAC

Learning and Teaching Principles and Practices: Career and Technical EducationLINK (<http://bulletin.unl.edu/courses/TEAC/451K>)**451K/851K****Prereqs:**

Credit Hours:	3–4
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Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Procedures for writing, selecting and organizing subject matter for instruction.

TEAC **Learning and Teaching Principles and Practices: Secondary Mathematics** bulletin.unl.edu/courses/TEAC/451P
451P/851P

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Credit Hours: 3-4
Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners.

TEAC **Learning and Teaching Principles and Practices:** [LINK \(http://bulletin.unl.edu/courses/TEAC/451V\)](http://bulletin.unl.edu/courses/TEAC/451V)
451V/851V

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better. Parallel with TEAC 397V (<http://bulletin.unl.edu/courses/TEAC/397V>).

Credit Hours: 3-4
Course Delivery: Classroom

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners.

TEAC **Curriculum Principles and Practices** [LINK \(http://bulletin.unl.edu/courses/TEAC/452\)](http://bulletin.unl.edu/courses/TEAC/452)
452/852

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with 2.5 GPA or better.

Credit Hours: 2-3
Course Delivery: Classroom

Focus on practical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306 \(http://bulletin.unl.edu/courses/TEAC/306\)](http://bulletin.unl.edu/courses/TEAC/306) or [406 \(http://bulletin.unl.edu/courses/TEAC/406\)](http://bulletin.unl.edu/courses/TEAC/406) or [806 \(http://bulletin.unl.edu/courses/TEAC/806\)](http://bulletin.unl.edu/courses/TEAC/806). Theory and research into curriculum incorporating technology, interdisciplinary approaches, active learning, and course content designed to enhance art understanding by students of diversity. J. Business Education Prereq: As listed above and [TEAC 451K \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K) and parallel with [TEAC 397I \(http://bulletin.unl.edu/courses/TEAC/397I\)](http://bulletin.unl.edu/courses/TEAC/397I). Objectives, teaching materials, selection and organization of subject matter, and methods of instruction and evaluation in business subjects. M. Industrial Education Prereq: As listed above and [TEAC 451K \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K) and parallel [TEAC 397M \(http://bulletin.unl.edu/courses/TEAC/397M\)](http://bulletin.unl.edu/courses/TEAC/397M). Objectives, curricula, methodology, evaluation, planning, classroom management and course organization. [IS]N. Secondary Language Arts Prereq: As listed above and parallel with [TEAC 397 \(http://bulletin.unl.edu/courses/TEAC/397\)](http://bulletin.unl.edu/courses/TEAC/397). Planning, teaching, and evaluating language arts lessons for diverse learners. P. Secondary Mathematics Prereq: As listed above and [TEAC 451P \(http://bulletin.unl.edu/courses/TEAC/451P\)](http://bulletin.unl.edu/courses/TEAC/451P)/[851P \(http://bulletin.unl.edu/courses/TEAC/851P\)](http://bulletin.unl.edu/courses/TEAC/851P) with a grade of "C+" or better. Conceptualizing the 7-12 curriculum through multimedia and active, discovery learning. [IS]R. Secondary Modern Languages Prereq: As listed above. Second-language acquisition and learning theory and their relationship to curriculum planning and development. Practice in creative language-use activities designed to build second language reading, writing,

speaking, listening, and culture skills. Development of teacher as observer, reflector, and recorder of individual student needs. [IS]V. Secondary Science Prereq: As listed above and [TEAC 451V](#) (<http://bulletin.unl.edu/courses/TEAC/451V/851V>) (<http://bulletin.unl.edu/courses/TEAC/851V>). Curricular materials, including the application of technology, as they relate to classroom instruction with diverse populations. [IS]W. Secondary Social Science Prereq: As listed above. Societal diversity and its impact on the 7-12 social science curriculum, regional and national curricular trends, and emerging theory and research in social studies education.

TEAC **The Middle Level Professional Methods**
453/853

[LINK \(http://bulletin.unl.edu/courses/TEAC/453\)](http://bulletin.unl.edu/courses/TEAC/453)

Prereqs:
Admission to the Teacher Education Program.

Development of competence in planning, teaching, classroom management and assessment. Covers the scope, content, and organization of curriculum and instructional materials. I. Art (2 cr) N. Language Arts (2 cr) P. Mathematics (2 cr) T. Reading (2 cr) V. Science (2 cr) W. Social Science (2 cr)

Credit Hours:	1-12
Max credits per semester:	12
Course Delivery:	Classroom

TEAC **Literature in Education**
454/854

[LINK \(http://bulletin.unl.edu/courses/TEAC/454\)](http://bulletin.unl.edu/courses/TEAC/454)

Comparative analyses of literature and the role of the reader as meaning maker in educational settings. A. Literary Response and Analysis (3 cr) B. Multiethnic Literature for Children and Adolescents (3 cr) E. Special Topics (3 cr)

Credit Hours:	3-9
Max credits per semester:	9
Course Format:	Lecture
Course Delivery:	Classroom

TEAC **Teaching with Technology**
480/880

[LINK \(http://bulletin.unl.edu/courses/TEAC/480\)](http://bulletin.unl.edu/courses/TEAC/480)

Survey and analysis of the application of technology to improve teaching. Research and related literature on learning, teaching and curriculum, and the critical application of technology and the development of teaching strategies. A. Survey of Instructional Technology (1-3 cr) B. Designing Instructional Technology K-12 (1-3 cr) E. Instructional Technology in Mathematics (1-3 cr) J. Instructional Technology in Language Arts (1-3 cr) K. Instructional Technology in Science (1-3 cr) L. Instructional Technology in Social Sciences (1-3 cr) M. Technology Supported Assessment and Evaluation (1-3 cr) N. Web Teaching (1-3 cr) P. Special Topics (1-3 cr)

Credit Hours:	1-3
Max credits per semester:	15
Course Delivery:	Classroom

TEAC **Instructional Applications of Computers-Practicum**
482/882

[LINK \(http://bulletin.unl.edu/courses/TEAC/482\)](http://bulletin.unl.edu/courses/TEAC/482)

Prereqs:
Permission.

A task-oriented practicum in instructional application of computer to provide an opportunity for repetition and/or demonstration of fundamental practice skills. Combines discussion and demonstration with supervised task-centered field experiences.

Credit Hours:	2-3
Course Delivery:	Classroom

TEAC **Independent Study**
495/895

[LINK \(http://bulletin.unl.edu/courses/TEAC/495\)](http://bulletin.unl.edu/courses/TEAC/495)

Credit Hours: 1-6

Course Delivery: Classroom

TEAC

496/896

Problems in Secondary Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/496\)](http://bulletin.unl.edu/courses/TEAC/496)

Prereqs:
Permission.

Opportunities for experienced teachers and administrators to develop plans, procedures, or experiments directed to the improvement of the curriculum or administration of the secondary school.

Credit Hours: 1-6

Course Delivery: Classroom

TEAC

498/898

Problems in Elementary Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/498\)](http://bulletin.unl.edu/courses/TEAC/498)

Prereqs:
Permission.

Opportunities to develop plans, procedures, experiments, and models directed to the improvement of elementary school education on an independent study basis.

Credit Hours: 2-3

Course Delivery: Classroom

TEAC

800

Inquiry into Teaching and Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800)

This course is a prerequisite for: [TEAC 888 \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Contemporary educational research from multiple theoretical perspectives.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

801

Curriculum Inquiry

[LINK \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801)

The relationship between curriculum theory and/or research to educational practices.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

803

Student Teaching Internship Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

Prereqs:
Parallel [TEAC 897 \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)

Analysis of school programs with attention to teacher certification, teacher/student rights/responsibilities, proper conduct of teachers, selected legal aspects of education, methods of communicating with parents and community members, and current issues.

A. Elementary (K-6) (1-2 cr) Parallel [TEAC 897A \(http://bulletin.unl.edu/courses/TEAC/897A\)](http://bulletin.unl.edu/courses/TEAC/897A).

B. Elementary Art (1-2 cr) Parallel [TEAC 897B \(http://bulletin.unl.edu/courses/TEAC/897B\)](http://bulletin.unl.edu/courses/TEAC/897B).

G. Elementary Foreign Language (1-2 cr) Parallel [TEAC 897G \(http://bulletin.unl.edu/courses/TEAC/897G\)](http://bulletin.unl.edu/courses/TEAC/897G).

I. Secondary Art (1-2 cr) Parallel [TEAC 897I \(http://bulletin.unl.edu/courses/TEAC/897I\)](http://bulletin.unl.edu/courses/TEAC/897I).

N. Secondary Language Arts (1-2 cr) Parallel [TEAC 897N \(http://bulletin.unl.edu/courses/TEAC/897N\)](http://bulletin.unl.edu/courses/TEAC/897N).

Credit Hours: 1-2

Campus:

Course Delivery: Classroom

P. Secondary Mathematics (1–2 cr) Parallel [TEAC 897P](http://bulletin.unl.edu/courses/TEAC/897P)
(<http://bulletin.unl.edu/courses/TEAC/897P>).

Q. Middle School (1–2 cr) Parallel [TEAC 897Q](http://bulletin.unl.edu/courses/TEAC/897Q)
(<http://bulletin.unl.edu/courses/TEAC/897Q>).

R. Secondary Modern Language (1–2 cr) Parallel [TEAC 897R](http://bulletin.unl.edu/courses/TEAC/897R)
(<http://bulletin.unl.edu/courses/TEAC/897R>).

V. Secondary Science (1–2 cr) Parallel [TEAC 897V](http://bulletin.unl.edu/courses/TEAC/897V)
(<http://bulletin.unl.edu/courses/TEAC/897V>).

W. Secondary Social Science (1–2 cr) Parallel [TEAC 897W](http://bulletin.unl.edu/courses/TEAC/897W)
(<http://bulletin.unl.edu/courses/TEAC/897W>).

Y. Mainstreaming (1–2 cr) Parallel [TEAC 897Y](http://bulletin.unl.edu/courses/TEAC/897Y)
(<http://bulletin.unl.edu/courses/TEAC/897Y>).

Z. Multicultural (1–2 cr) Parallel [TEAC 897Z](http://bulletin.unl.edu/courses/TEAC/897Z)
(<http://bulletin.unl.edu/courses/TEAC/897Z>).

TEAC

805

Advanced Teaching Strategies

Crosslisted as *ALEC 805*, *NUTR 806*

[LINK \(http://bulletin.unl.edu/courses/TEAC/805\)](http://bulletin.unl.edu/courses/TEAC/805)

This course is a prerequisite for: [ALEC 400](http://bulletin.unl.edu/courses/ALEC/400) (<http://bulletin.unl.edu/courses/ALEC/400>)

Contemporary and innovative teaching strategies, emphasizing learner-centered instruction, suitable to teaching in college and postsecondary institutions, outreach programs public schools, and other settings. Students participate in active learning as they apply learning theory in practice, prepare and demonstrate teaching methods, and plan for instruction in discipline areas of their choice.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC

812

Improvement of Instruction in Elementary School Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/812\)](http://bulletin.unl.edu/courses/TEAC/812)

Prereqs:

12 hrs education including [TEAC 315](http://bulletin.unl.edu/courses/TEAC/315)
(<http://bulletin.unl.edu/courses/TEAC/315>) or permission; teaching experience or student teaching

Techniques, plans, and procedures for improving instruction in elementary school science. Current practices, issues, and trends; evaluation of instructional materials.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC

813J

Intercultural Communication

[LINK \(http://bulletin.unl.edu/courses/TEAC/813J\)](http://bulletin.unl.edu/courses/TEAC/813J)

Introduction to intercultural communication and the theoretical and methodological tools needed to understand the tenets and implications of intercultural communication for application in personal and professional practices. Readings will deal with misunderstandings and the impact of cultural factors on the making of meaning, as well as discrimination and the impact of unequal power relations on communication, media impact in a globalized world, language, identity and communication, and intercultural competence.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

817

Emerging Reading and Language

[LINK \(http://bulletin.unl.edu/courses/TEAC/817\)](http://bulletin.unl.edu/courses/TEAC/817)

Prereqs:

Elementary endorsement

Research, theory and practice associated with literacy development in children from birth to age 8. Language and concept development, emerging reading and writing behaviors, appropriate materials and evaluation within a holistic view teaching and learning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
822

Principles and Practices in Social Studies Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/822\)](http://bulletin.unl.edu/courses/TEAC/822)

Current issues and trends in the curriculum and teaching of social studies.
A. Special Topics (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
828

Improvement of Instruction in Industrial Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/828\)](http://bulletin.unl.edu/courses/TEAC/828)

Special contemporary curricular and teaching aspects of industrial education. Research, curriculum content, teaching strategies, and the application to the instructional setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
833

Comparative Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/833\)](http://bulletin.unl.edu/courses/TEAC/833)

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
835

Ethnic Minorities and American Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/835\)](http://bulletin.unl.edu/courses/TEAC/835)

Chronological entry of European immigrant groups into an American society during the formative years of the development of the American public school system. Record of American social and educational history is replete with examples of inter- and intra-group human conflict as each immigrant group attempted to carve out its niche in a New World setting during a period of mass migration from Europe. Historical, sociological, and psychological barriers that became inherent during a dynamic period of nation building.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
840

Culture and Schooling

[LINK \(http://bulletin.unl.edu/courses/TEAC/840\)](http://bulletin.unl.edu/courses/TEAC/840)

Description and explanation of cultural values as they relate to education.
A. Gender (1-3 cr)
B. Gender and Science (1-3 cr)
D. Special Topics (1-6 cr)
E. Rural Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
842

Objectives and Methods of Science Teaching

[LINK \(http://bulletin.unl.edu/courses/TEAC/842\)](http://bulletin.unl.edu/courses/TEAC/842)

This course is a prerequisite for: [TEAC 924 \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Development of objectives, course offerings, and organization of subject matter and methods of instruction in science courses. Current national science education curriculum trends.

A. Elementary
B. Middle School
D. Secondary and Community College
E. Special Topics (1-6 cr)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC

844**School Media Programs**[LINK \(http://bulletin.unl.edu/courses/TEAC/844\)](http://bulletin.unl.edu/courses/TEAC/844)

Role of the media specialist as a member of the instructional team.

- A. Administration (3 cr)
- B. Reference (3 cr)
- D. Cataloguing (3 cr)
- E. Selection (3 cr)
- J. Special Topics in School Media

Credit Hours:	1-3
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Campus:	
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Course Delivery:	Classroom
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TEAC

846**Studies in Middle Level Schooling**[LINK \(http://bulletin.unl.edu/courses/TEAC/846\)](http://bulletin.unl.edu/courses/TEAC/846)

Historical development, philosophy, and current literature of the middle school.

- A. Curriculum (1-3 cr, max 3)
- B. Leadership (1-3 cr, max 3)
- D. Teacher-Based Advisory (1-3 cr, max 3)
- E. Special Topics (1-3 cr, max 9)

Credit Hours:	1-9
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Max credits per degree:	9
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Campus:	
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Course Delivery:	Classroom
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TEAC

847**Principles of Business Education**[LINK \(http://bulletin.unl.edu/courses/TEAC/847\)](http://bulletin.unl.edu/courses/TEAC/847)

Principles, philosophy, historical development, and emerging role of business education in America. Current issues in business education, resource development, examination of learning theories, and needs assessment.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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TEAC

848**Introduction to Curriculum Studies**[LINK \(http://bulletin.unl.edu/courses/TEAC/848\)](http://bulletin.unl.edu/courses/TEAC/848)

Historical development and philosophy of high school curricula. Review of research on schooling, curriculum trends, and school organizational structures.

- A. Elementary Schools
- B. Middle Schools
- D. Secondary Schools
- E. Special Topics in Curriculum (1-6 cr)

Credit Hours:	1-3
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Campus:	
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Course Delivery:	Classroom
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TEAC

849**Studies in Assessment and Leadership for Learning**[LINK \(http://bulletin.unl.edu/courses/TEAC/849\)](http://bulletin.unl.edu/courses/TEAC/849)

Preparation for assessing K-12 learners and leading K-12 Teacher Learning Communities.

- A. Classroom Assessment (3 cr)
- B. Large-scale Assessment (3 cr)
- E. Leadership in Assessment (3 cr)
- J. Leading Classroom Assessment (3 cr)
- K. Special Topics in Assessment and Leadership for Learning (3 or 6 cr, max 6)

Credit Hours:	6
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Max credits per degree:	18
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Course Format:	Lecture
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Campus:	
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Course Delivery:	Classroom
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TEAC

857B**Nebraska Writing Project**Crosslisted as *ENGL 857B*[LINK \(http://bulletin.unl.edu/courses/TEAC/857B\)](http://bulletin.unl.edu/courses/TEAC/857B)

Topics in writing instruction, explored via the National Writing Project Institute model, for K-12 and college teachers of writing in all curricular

Credit Hours:	1-3
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Course Format:	Lecture
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areas.

Campus:

Course Delivery: Classroom

TEAC

858

Utilization of Modern Technology

[LINK \(http://bulletin.unl.edu/courses/TEAC/858\)](http://bulletin.unl.edu/courses/TEAC/858)

Strategies of incorporating modern technology into the professional workplace; provides a thorough understanding of the operation and evaluation of integrating technology into the curriculum.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

859

Instructional Message Design

[LINK \(http://bulletin.unl.edu/courses/TEAC/859\)](http://bulletin.unl.edu/courses/TEAC/859)

Using selected principles from behavior science (perception, memory, attitudes, concepts), students analyze and design instructional messages. Systematic process for instructional development.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

860

Production and Utilization of Instructional Materials

[LINK \(http://bulletin.unl.edu/courses/TEAC/860\)](http://bulletin.unl.edu/courses/TEAC/860)

This course is meant to be taken after and in sequence with TEAC *859. Unique characteristics and contributions of selected instructional media and technologies to the teaching/learning and communication processes. Students produce materials for specific instructional messages.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

861

Education for a Pluralistic Society: Foundation and Issues

[LINK \(http://bulletin.unl.edu/courses/TEAC/861\)](http://bulletin.unl.edu/courses/TEAC/861)

Educational practices and policies for people from historically oppressed groups in the United States Foundation of multicultural education. Discussion of contemporary educational issues within the context of multicultural and cultural diversity. Critique of curricular materials and resources promoting a multicultural perspective.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

881

Music in Early Childhood Education

Crosslisted as *MUED 881*

[LINK \(http://bulletin.unl.edu/courses/TEAC/881\)](http://bulletin.unl.edu/courses/TEAC/881)

Prereqs:

[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or [370 \(http://bulletin.unl.edu/courses/MUED/370\)](http://bulletin.unl.edu/courses/MUED/370) or permission

Prepares the teacher of the young child (3–8 years) in the musical skills, methodology, and materials needed to carry out a successful program of music in the public and private schools, the nursery schools, and day-care centers.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC

887

Effecting High School Improvement

[LINK \(http://bulletin.unl.edu/courses/TEAC/887\)](http://bulletin.unl.edu/courses/TEAC/887)

The relationships and interactions among the high school student, a teacher, and the curriculum to the issues of school district, higher education, philanthropy, state department of education, and federal involvement in high school improvement efforts. The imperative and challenges for improving high schooling for all students.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

TEAC
888 **Teacher as Scholarly Practitioner**

[LINK \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Prereqs:
[TEAC 800 \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800) and [801 \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801), or permission

Seminar on the principles of practitioner inquiry and development of a proposal for an inquiry project.
A. Special Topics in Inquiry

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

TEAC
889 **Masters Seminar**

[LINK \(http://bulletin.unl.edu/courses/TEAC/889\)](http://bulletin.unl.edu/courses/TEAC/889)

Prereqs:
Permission

Working with a faculty mentor on either an individual or small-group basis, the student plans, conducts, and reports a summative work project.

Credit Hours:	1-3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
890 **Workshop Seminar**

[LINK \(http://bulletin.unl.edu/courses/TEAC/890\)](http://bulletin.unl.edu/courses/TEAC/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC
893 **Workshop Seminar**

[LINK \(http://bulletin.unl.edu/courses/TEAC/893\)](http://bulletin.unl.edu/courses/TEAC/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC
894 **Professional Practicum Experiences**

[LINK \(http://bulletin.unl.edu/courses/TEAC/894\)](http://bulletin.unl.edu/courses/TEAC/894)

Prereqs:
Admission to Teacher Education Program

TEAC *894 does not count toward the MA or MEd degree. P/N only. Guided observations and/or clinical experiences in schools and/or agencies offering programs for children/youth.

- A. Elementary (K-6) (1-10 cr)
- B. Elementary Art (1-10 cr)
- E. English as a Second Language (1-10 cr)
- G. Elementary Foreign Language (1-10 cr)
- I. Secondary Art (1-10 cr)
- J. Business Education (1-10 cr)
- L. Information Technology (1-10 cr, max 10)
- M. Industrial Education (1-10 cr)
- N. Secondary Language Arts (1-10 cr)
- O. Marketing Education (1-10 cr)
- P. Secondary Mathematics (1-10 cr)
- Q. Middle School (1-10 cr)
- R. Secondary Modern Language (1-10 cr)
- T. Reading (1-10 cr)
- V. Secondary Science (1-10 cr)
- W. Secondary Social Science (1-10 cr)
- Y. Mainstreaming (1-10 cr)
- Z. Multicultural (1-10 cr)

Credit Hours:	1-10
Max credits per degree:	10
Course Format:	Field
Campus:	
Course Delivery:	Classroom

TEAC

897**Student Teaching Internship**[LINK \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)**Prereqs:**
Admission by application onlyThis course is a prerequisite for: [TEAC 803 \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

(See "Admission to Student Teaching" in the UNL Undergraduate Bulletin.)

This course will not count towards the MA or MEd degree. P/N only.

Supervised teaching experience in schools.

- A. Elementary (K-6)
- B. Elementary Art
- E. English as a Second Language
- D. Elementary Physical Education
- G. Elementary Foreign Language
- I. Secondary Art
- J. Business Education
- K. Health
- M. Industrial Education
- N. Secondary Language Arts
- P. Secondary Mathematics
- Q. Middle School
- R. Secondary Modern Language
- U. Secondary Physical Education
- V. Secondary Science
- W. Secondary Social Science
- Y. Mainstreaming
- Z. Multicultural

Credit Hours: 1-10**Course Delivery:** Classroom

TEAC

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/TEAC/899\)](http://bulletin.unl.edu/courses/TEAC/899)**Prereqs:**
Admission to masters degree program and permission of major adviser**Credit Hours:** 6-10**Campus:****Course Delivery:** Classroom

TEAC

901**Supervision and Administration in Vocational Education**[LINK \(http://bulletin.unl.edu/courses/TEAC/901\)](http://bulletin.unl.edu/courses/TEAC/901)For course description, see [ALEC 901 \(http://bulletin.unl.edu/courses/ALEC/901\)](http://bulletin.unl.edu/courses/ALEC/901).**Credit Hours:** 1-3**Course Format:** Lecture**Campus:****Course Delivery:** Classroom

TEAC

902**Colloquium in Educational Policy and Practice**[LINK \(http://bulletin.unl.edu/courses/TEAC/902\)](http://bulletin.unl.edu/courses/TEAC/902)Educational policy and practice and their interconnection.
A. Special Topics in Educational Policy and Practice (1- 3 cr)**Credit Hours:** 1-3**Max credits per degree:** 6**Campus:****Course Delivery:** Classroom

TEAC

903**Current Trends in the Education of Young Children**[LINK \(http://bulletin.unl.edu/courses/TEAC/903\)](http://bulletin.unl.edu/courses/TEAC/903)

Participation in special problems of teachers in service. Guidance, evaluations, research.

Credit Hours: 2-3

Campus:

Course Delivery: Classroom

TEAC
905 **Practicum in Postsecondary Teaching**

Crosslisted as *ALEC 905*

[LINK \(http://bulletin.unl.edu/courses/TEAC/905\)](http://bulletin.unl.edu/courses/TEAC/905)

Prereqs:
ALEC *805 or permission

Work with a faculty mentor in a discipline of choice and an instructional supervisor to prepare instruction and teach students in a postsecondary setting. Practicum students are assisted in arranging for the practicum and are provided consultation and feedback during the practicum. Lesson planning and reflective papers are part of the practicum experience.

Credit Hours: 1-3

Course Format: Lab

Campus:

Course Delivery: Classroom

TEAC
907 **Seminar in Elementary School Mathematics**

[LINK \(http://bulletin.unl.edu/courses/TEAC/907\)](http://bulletin.unl.edu/courses/TEAC/907)

Prereqs:
TEAC 808 (<http://bulletin.unl.edu/courses/TEAC/808>) or equivalent

Theories, literature, and research procedures relative to elementary mathematics education.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
908 **Seminar in Teacher Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/908\)](http://bulletin.unl.edu/courses/TEAC/908)

Overview of literature and scholarship in teacher education.
A. Supervision of Pre-service Teachers (1-3 cr)
B. Teacher Development (3 cr)
D. Initial Teacher Preparation (1-3 cr)
E. Special Topics in Teacher Education (1-3 cr)

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

TEAC
911 **Seminar in Elementary School Science**

[LINK \(http://bulletin.unl.edu/courses/TEAC/911\)](http://bulletin.unl.edu/courses/TEAC/911)

Prereqs:
12 hrs laboratory science including courses in both physical and biological fields; TEAC 403 (<http://bulletin.unl.edu/courses/TEAC/403>) or 804 (<http://bulletin.unl.edu/courses/TEAC/804>) or equivalent; teaching experience

Literature which deals with research and experimentation in science for the elementary school. Aspects of the teaching and supervision of elementary school science that require investigation and research.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
920 **Seminar in Curriculum and Teaching of Career and Technical Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/920\)](http://bulletin.unl.edu/courses/TEAC/920)

Current research and theory within the curriculum and teaching of career and technical education.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
Seminar in Literacy Studies

[LINK \(http://bulletin.unl.edu/courses/TEAC/921\)](http://bulletin.unl.edu/courses/TEAC/921)

921

Research in literacy and schooling.
A. Curriculum and Teaching (3 cr)
B. Special Topics (1-3 cr)
D. Language, Culture, and Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC 922

Seminar in the Learning and Teaching of Foreign Languages

[LINK \(http://bulletin.unl.edu/courses/TEAC/922\)](http://bulletin.unl.edu/courses/TEAC/922)

Prereqs:
Undergraduate teaching major in a foreign language and teaching experience in a foreign language

Critical review and evaluation of current literature, research and theory.
A. Reading in the Foreign Language Classroom (1-3 cr, max 3)
B. Writing in the Foreign Language Classroom (1-3 cr, max 3)
D. Listening in the Foreign Language Classroom (1-3 cr, max 3)
E. Speaking in the Foreign Language Classroom (1-3 cr, max 3)
J. Planning in the Foreign Language Classroom (1-3 cr, max 3)
K. Technology-Enhanced Language Instruction (1-3 cr, max 3)

Credit Hours:	1-21
Max credits per degree:	21
Campus:	
Course Delivery:	Classroom

TEAC 923

Seminar in the Curriculum and Teaching of Secondary School Mathematics

[LINK \(http://bulletin.unl.edu/courses/TEAC/923\)](http://bulletin.unl.edu/courses/TEAC/923)

Prereqs:
Undergraduate teaching major and teaching experience in mathematics

Critical evaluation of current literature, yearbooks, research, and experiments in the curriculum and teaching of mathematics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC 924

Seminar in the Curriculum and Teaching of Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Prereqs:
Undergraduate teaching major and teaching experience in science, and [TEAC 842 \(http://bulletin.unl.edu/courses/TEAC/842\)](http://bulletin.unl.edu/courses/TEAC/842) and [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Exploration of current literature, yearbooks, research, and experiments in the curriculum and teaching of science.
A. Elementary
B. Middle School
D. Secondary
E. Inclusive Science Teaching
J. Special Topics (1-6 cr)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC 925

Seminar in the Curriculum and Teaching of Social Sciences

[LINK \(http://bulletin.unl.edu/courses/TEAC/925\)](http://bulletin.unl.edu/courses/TEAC/925)

Current research and literature in social sciences education.
A. Elementary (1-3 cr)
B. Middle School (1-3 cr)
D. Secondary (1-3 cr)
E. Great Plains Studies (1-3 cr)
G. Special Topics in Social Sciences (1-3 cr)

Credit Hours:	3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
929

Seminar in Individualized Instruction for Gifted, Talented, and Creative Students [LINK \(http://bulletin.unl.edu/courses/TEAC/929\)](http://bulletin.unl.edu/courses/TEAC/929)

Nature of curricular and instructional programs and practices for gifted, talented, and creative students in elementary and secondary schools. Range of learner outcomes, identification of instructional principles, personalizing instruction for this group of learners.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
930

Sociological/Anthropological Research Methods in Education [LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Crosslisted as *EDPS 930, CYAF 930, NUTR 930*

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1–3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1–3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1–3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1–3 cr, max 3)
- J. Hermeneutic Traditions in Education (1–3 cr, max 3)
- K. Quantitative Research Traditions in Education (1–3 cr, max 3)

Credit Hours:	1–3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
931

Research in the History of Education [LINK \(http://bulletin.unl.edu/courses/TEAC/931\)](http://bulletin.unl.edu/courses/TEAC/931)

Historical research methods in education culminating in the research and writing of a historical article as publication report.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
932

Contract Studies in International Education [LINK \(http://bulletin.unl.edu/courses/TEAC/932\)](http://bulletin.unl.edu/courses/TEAC/932)

Prereqs:
Permission

Student proposed course of studies in international education: may include field experiences, individual/group research, participation in mini-seminars, etc.

Credit Hours:	1–6
Campus:	
Course Delivery:	Classroom

TEAC
936

Seminar in College Teaching [LINK \(http://bulletin.unl.edu/courses/TEAC/936\)](http://bulletin.unl.edu/courses/TEAC/936)

Overview of teaching in post-secondary settings.

Credit Hours:	1–3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

TEAC
937

Philosophy of Science and Educational Research [LINK \(http://bulletin.unl.edu/courses/TEAC/937\)](http://bulletin.unl.edu/courses/TEAC/937)

Major themes in philosophy of science and relates these to conceptions of research on human beings and social institutions, particularly as this is applied to schooling. Students consider such fundamental issues as whether

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

educational research is a science, the form and purpose of educational research, and what research might imply for practice.

TEAC
944

Seminar in Curriculum Studies

[LINK \(http://bulletin.unl.edu/courses/TEAC/944\)](http://bulletin.unl.edu/courses/TEAC/944)

Critical examination of issues in curriculum development with an analysis of research and literature on the subject.

- A. Curriculum as Aesthetic Text (1–3 cr)
- B. Special Topics in Curriculum (1–3 cr)
- D. Curriculum Evaluation (1–3 cr)
- E. Curriculum as Spatial Text (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
946

Instructional Improvement and Decision Making

[LINK \(http://bulletin.unl.edu/courses/TEAC/946\)](http://bulletin.unl.edu/courses/TEAC/946)

Study and application of teaching models and techniques based on research, theory, and exemplary practice.

- A. Instructional Assessment
- B. Special Topics in Instruction

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

TEAC
949

Seminar in Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/949\)](http://bulletin.unl.edu/courses/TEAC/949)

Critical analysis of literature and research on teaching, learning, and schooling.

- A. Special Topics in Education (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
950

Contextual Research in English/Language Arts

[LINK \(http://bulletin.unl.edu/courses/TEAC/950\)](http://bulletin.unl.edu/courses/TEAC/950)

Uses of qualitative research in English language arts; interpreting, planning, conducting, and reporting contextual research results.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
951

Seminar in Reading Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/951\)](http://bulletin.unl.edu/courses/TEAC/951)

Scholarship in reading education, including the nature, results and implications of past and present research and non-research and contributions of historically significant scholars in the field of reading.

- A. Research in Reading Education (3 cr)
- B. Special Topics (1–6 cr, 6 max)

Credit Hours:	3–9
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
952

Language and Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/952\)](http://bulletin.unl.edu/courses/TEAC/952)

Role that language plays in empowering and constraining children as they attempt to make sense of their world. Consideration of application of language scholarship for general instruction.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
953

Seminar on Writing in the Curriculum

[LINK \(http://bulletin.unl.edu/courses/TEAC/953\)](http://bulletin.unl.edu/courses/TEAC/953)

Writing development, writing instruction, and the use of writing in the content areas. Consideration of application of scholarship in writing for general learning and instruction.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
957B

Nebraska Writing Project

Crosslisted as ENGL 957B

[LINK \(http://bulletin.unl.edu/courses/TEAC/957B\)](http://bulletin.unl.edu/courses/TEAC/957B)

Summer institute for K-12 and college teachers of writing in all curricular areas, taught on the National Writing Project model.

Credit Hours:	6
Course Format:	Lecture 6
Campus:	
Course Delivery:	Classroom

TEAC
959

Portfolio in Instructional Technology Competencies

[LINK \(http://bulletin.unl.edu/courses/TEAC/959\)](http://bulletin.unl.edu/courses/TEAC/959)

Prereqs:
Permission

No more than six credits of [TEAC 959](http://bulletin.unl.edu/courses/TEAC/959) (<http://bulletin.unl.edu/courses/TEAC/959>) may be counted towards a masters degree. Portfolio components represent a significant contribution to the solution of an instructional problem and reflect broadly the major competencies of instructional technology: problem definition, learner analysis, media selection and message design, production, and evaluation.

Credit Hours:	1-12
Campus:	
Course Delivery:	Classroom

TEAC
960

Topical Seminar in Instructional Technology

[LINK \(http://bulletin.unl.edu/courses/TEAC/960\)](http://bulletin.unl.edu/courses/TEAC/960)

Prereqs:
Permission

Critical analysis of research in a delimited problem area within instructional technology (e.g., ITV, CAI, videodisc, simulations, programmed instruction). Empirically testable research questions related to the topic.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC
961

Current Approaches to Elementary Music Education

Crosslisted as MUED 961

[LINK \(http://bulletin.unl.edu/courses/TEAC/961\)](http://bulletin.unl.edu/courses/TEAC/961)

Prereqs:
Teaching experience

Implementation of current programs, materials, and techniques for the improvement of music instruction in the elementary school.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/990\)](http://bulletin.unl.edu/courses/TEAC/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/993\)](http://bulletin.unl.edu/courses/TEAC/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/995\)](http://bulletin.unl.edu/courses/TEAC/995)

Prereqs: Permission

Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

TEAC

996

Individual Research Projects

[LINK \(http://bulletin.unl.edu/courses/TEAC/996\)](http://bulletin.unl.edu/courses/TEAC/996)

Prereqs: Permission

Individual research under faculty supervision.

Credit Hours:	1-10
Max credits per degree:	10
Campus:	
Course Delivery:	Classroom

TEAC

997

Minor Research

[LINK \(http://bulletin.unl.edu/courses/TEAC/997\)](http://bulletin.unl.edu/courses/TEAC/997)

Individual research on approved topics in Elementary Education.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

TEAC

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/TEAC/999\)](http://bulletin.unl.edu/courses/TEAC/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

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 - [1.1 Educational Administration \(#Educational Administration\)](#)
 - [1.2 Educational Psychology \(#Educational Psychology\)](#)
 - [1.3 Special Education and Communication Disorders \(#Special Education and Communication Disorders\)](#)
 - [1.4 Teaching, Learning and Teacher Education \(#Teaching.2C Learning and Teacher Education\)](#)
- [2 Faculty \(#Faculty\)](#)

Description

The College of Education and Human Sciences (CEHS) offers graduate degree programs through its seven CEHS departments: Child, Youth and Family Studies; Educational Administration; Educational Psychology; Nutrition and Health Sciences; Special Education and Communication Disorders; Teaching, Learning and Teacher Education; and Textiles, Clothing and Design. In addition to graduate degree programs, CEHS also offers graduate, non-degree programs leading to certification in areas such as teaching, curriculum leadership and school administration.

Workshop Seminars in Education

The purpose of the Workshop Seminars (890, 893, 990 or 993) is to give students in the departments of education an opportunity to work singly or in groups on practical educational problems which are of special focused interest but which are not included in other professional education courses. Workshops are offered on a variety of topics by College faculty and selected educational consultants. As a rule, the individual or group is expected to produce some kind of a product as a part of the workshop experience. The amount of credit in a Workshop Seminar at either the 800 or 900 level may not exceed 12 semester hours in meeting requirements for the masters degree. Upon approval, a maximum of 12 additional semester hours may be included in the program for the doctoral degree. CEHS offers three masters degrees in nine majors and the education specialist degree in three majors. The MEd is offered only in Educational Administration; Special Education and Communication Disorders; and Teaching, Learning, and Teacher Education. The following requirements for the MEd are College requirements. Departmental requirements may exceed these. In work for the master of education degree, at least 6 semester hours selected from College of Education and Human Sciences courses outside the major must be included and supporting work may be substituted for the minor(s). For information on masters and specialist degree programs, consult the relevant department's listing in this bulletin.

CEHS offers two doctoral degrees, both the EdD and the PhD, under three majors: educational studies, human sciences, and psychological studies in education. In addition, CEHS participates in two additional doctoral majors.

The Educational Studies major includes six specializations. Instructional Technology; Internet-based Education; and Teaching, Curriculum and Learning are hosted by the Department of Teaching, Learning and Teacher Education. Special Education is sponsored by the Department of Special Education and Communication Disorders. The Department of Educational Administration hosts Educational Leadership and Higher Education and co-hosts, with Architecture, Architecture Education.

The Human Sciences major includes five specializations. Communication Disorders is housed in the Department of Special Education and Communication Disorders; Child, Youth and Family Studies is sponsored by the Department of Child, Youth and Family Studies; Nutrition and Health Sciences is hosted by the Department of Nutrition and Health Sciences; Textiles, Clothing and Design is based in the Department of Textiles, Clothing and Design; and Leadership Studies is housed in the Department of Agricultural Leadership, Education and Communication.

The Psychological Studies in Education major includes four specializations, all hosted by the Department of Educational Psychology: Cognition, Learning and Development; Counseling Psychology; Qualitative and Quantitative Methodologies in Education; and School Psychology.

In addition, the Department of Educational Administration--in cooperation with UNO's Department of Educational Administration--offers a major in Educational Administration, and the Department of Nutrition and Health Sciences participates in the Interdepartmental Nutrition major.

Specific program and application information is available under each department's listing in this bulletin. Up-to-date information is also available on-line at cehs.unl.edu. Inquiries may be directed to cehsgrad@unl.edu or to (402) 472-5333.

Educational Administration

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Interim Department Chair: Brent D. Cejda, Ph.D.

Graduate Committee Chair: Jody Isernhagen, Ph.D.

The Department of Educational Administration offers programs leading to masters (MEd, MA) and doctoral degrees (PhD, EdD) as well as certificates of specialization.

Masters degree programs

The Masters Degree program meets the academic requirements for either a Master of Arts (MA) or a Master of Education (MEd) degree with a major in Educational Administration. The MA degree requires the completion of a thesis. Students enrolled in the Masters Degree program are interested in both K-12 and higher education administration.

The majority of students interested in K-12 education intend to satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, at either the standard or professional level, with administrative endorsements that will qualify them for employment as administrators in K-12 school systems. Students interested in higher education administration have the opportunity to pursue specializations in student affairs or human resource development or complete a general higher education program.

Doctoral degree programs

There are two approved doctoral areas of emphasis: 1) Educational Leadership and Higher Education (ELHE), which leads to either the PhD or EdD degree in education studies, and 2) a jointly operated program with UNO (EDJT) which leads to the EdD in educational administration. All students pursuing a doctorate degree are required to complete a dissertation and students pursuing a PhD are required to complete an on-campus residency.

Certificates of Specialization

In addition to masters and doctoral degrees, the department offers four certificates of specialization.

Individuals who already have a Masters Degree in education can pursue a certificate endorsement program that will satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, a requirement for employment as an administrator in a K-12 school system.

The Certificate of Specialization in Educational Administration is designed to meet the requirements of a Nebraska Professional and Administrative Supervisory Certificate with an endorsement of superintendent.

The School Improvement Certificate Program that focuses on the K-12 school improvement process. The School Improvement Program benefits you--the teacher, by preparing you as a school leader while gaining the specialist credential, allowing you to increase your skills and build career opportunities.

The Community College Leadership Certificate is designed for those already employed in community colleges who aspire to administrative appointments as well as those who are in leadership positions and need or desire additional preparation.

Course Delivery

The Department of Educational Administration has been a campus leader in reaching out to students who need or wish to study from off campus and offers most of the course work for the MEd and EdD online. The primary emphasis in all courses is on the principles, processes, and practical skills necessary for the leadership, organization, and administration of educational institutions.

Further information about graduate degree programs and about certification programs may be located on the department's Website, located at cehs.unl.edu/edad.

Educational Psychology

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology).

<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>

Department Chair: R. J. De Ayala, Ph.D.

Graduate Committee Chair: Edward Daly, Ph.D.

Website: edpsyc.unl.edu

The Department of Educational Psychology consists of four program areas: counseling psychology; cognition, learning and development (CLD); quantitative, qualitative, and psychometric methods (QQPM); and school psychology.

Masters Degree

The master of arts (MA) degree may be obtained with a specialization in cognition, learning and development (CLD program), or with a concentration in counseling psychology, or research and psychometric methods (QQPM program). Individuals in the CLD program may select the general CLD specialization or an option in health behavior or in college learning center. Endorsement programs are offered in secondary school counseling, and elementary school counseling.

Educational Specialist Degree

The Department of Educational Psychology offers the educational specialist degree (EdS) (67–72 hours beyond the BA) in school psychology. The EdS in school psychology leads to certification as a school psychologist.

Doctoral Degrees

The PhD degree is available to students wishing careers in cognition, learning and development, research methods, measurement, counseling psychology, and school psychology through the field of educational specialization called psychological studies in education. For further information, see and contact the chair of the Department's Graduate Committee.

Counseling and School Psychology Clinic

The Counseling and School Psychology Clinic in the Department of Educational Psychology serves the dual function of (1) providing training for qualified graduate students and of (2) providing services to individuals, public schools, families, and community agencies. Clinic therapists assist adults, families, children and youth experiencing academic, psychological, and behavioral concerns. In addition to therapeutic services, clinic therapists provide psychological testing and consultation for school related concerns. Therapeutic services are also provided for educational and vocational concerns. Service is provided by appointment.

Buros Center for Testing

The Buros Center for Testing comprises two separate institutes dedicated to improving the quality of contemporary assessment practices. Founded by Oscar K. Buros in 1937, the Buros Institute of Mental Measurements (BIMM) publishes critical evaluations of commercially available tests. In addition to its international reputation for providing test reviews, BIMM maintains the largest collection of tests and testing materials in the world. The Buros Institute for Assessment Consultation and Outreach (BIACO) was established in 1994 to expand the range of available assessment services to proprietary testing programs that include credentialing, state educational assessment, employment testing, and assessment literacy. Together, the two Buros Institutes advance the goals of the Department of Educational Psychology and the College of Education and Human Sciences by providing consultation and instructional services to graduate programs, by training and supporting graduate students in current assessment practices, and by serving assessment outreach needs both within and outside the state of Nebraska.

[Q](#)

Special Education and Communication Disorders

For a brief description of the program, application requirements and contact information, view the [graduate program summary](#).

<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>

Department Chair: Sherri Jones, Ph.D.

Graduate Committee Chair: Karen Hux, Ph.D.

The Department of Special Education and Communication Disorders offers graduate programs leading to the master of science degree in speech–language pathology and the master of arts and master of education degrees in special education. The department administers a PhD in human sciences with a specialization in communication disorders and the PhD or EdD in educational studies with a specialization in special education. The department also offers the professional doctor of audiology (AuD) degree in audiology and a combined AuD/PhD Program. For more information on doctoral programs in education call (402) 472–2141 or visit our website at www.unl.edu/barkley.

The masters degree program in speech–language pathology and the AuD program in audiology are accredited by the Council on Academic Accreditation in Audiology/Speech–Language Pathology.

For more information regarding graduate and professional programs offered by the Department of Special Education and Communication Disorders, please call (402) 472–2141 or visit our website at www.unl.edu/barkley.

Masters Degree Programs. Students seeking admission into a masters program should: 1) apply on–line to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the web site at www.unl.edu/barkley or by emailing the Graduate Secretary at special@unl.edu. Three letters of recommendation, preferably from former college instructors, should be submitted to the departmental Graduate Governance Committee Chair along with the departmental application. Each applicant should also arrange to have a current academic transcript and scores for the General Test of the Graduate Record Examination submitted to the Graduate Studies Office at the University of Nebraska–Lincoln. Early submission of the scores is important because the application file cannot be given consideration until the file is complete.

For a master of science degree in speech–language pathology, completion of an appropriate undergraduate or pre–professional program is required for full graduate standing. Students with strong potential but without an academic background in the major may be admitted on a provisional basis until deficiencies have been met. Completion of the masters degree requires a minimum of 48 hours of approved graduate work, including appropriate clinical practicum experiences for those seeking certification/licensure. The application deadline for fall admission into the M.S. program in Speech–Language Pathology is January 15.

Teacher Certification (licensure) and the Masters Degree. Masters degrees may be obtained with teaching certificate endorsements for special education and speech–language pathology. Candidates must qualify for a Nebraska Teaching Certificate (see the Undergraduate Bulletin) for employment in the public schools.

Distance Education. The Department has several special education masters degrees, an educational specialist degree, and/or teaching endorsement programs that are available in part or fully through distance education. These include Early Childhood Special Education, Deaf and Hard of Hearing, Mild/Moderate Disabilities, Visual Impairments, Autism, Severe Disabilities, and Supervisor of Special Education (joint with Educational Administration) programs. Distance courses are delivered via the Internet with Blackboard and/or Breeze software. Some distance courses may also require some weekend meetings, telephone or Breeze connections to the on–campus course section, and may have scheduled participation requirements. Field experience and practicum courses can be arranged in or near local communities but may require special fees. Where required courses are not currently available via distance delivery, an equivalent course (either on–campus or at a distance) from another institution can be substituted with the approval of the advisor or may be taken on the UNL campus during the summer. See the department website for information about computer requirements for distance on–line courses and distance course availability.

Educational Specialist (EdS) Degree. This program in special education provides opportunity for practitioners in the field to upgrade their skills and/or develop leadership skills as a special educator in a particular area of specialization. Two years successful professional experience as a special educator is a minimum requirement for admission. A minimum of 66 credit hours past the bachelors degree is required, with at least 24 credits to be taken after admission to UNL's EdS program. These include at least 40 hours of core content courses, 6 credits of electives or practica, and 3 credits of research. Relevant coursework completed as part of a prior masters degree can be used toward this degree. The program also requires a written comprehensive examination. Degree requirements can be used for additional teaching endorsements. Other relevant information and the application form can be found online at: www.unl.edu/barkley/sped/eds.shtml.

Doctor of Audiology (AuD) Degree. The Department of Special Education and Communication Disorders offers a professional audiology degree, the Doctor of Audiology (AuD) degree. The AuD program is a four–year course of study post B.A. or B.S. designed to provide students with academic and clinical practicum experiences that will meet or exceed the requirements of the American Speech–Language–Hearing Association (ASHA) for the Certificate of Clinical Competence in Audiology (CCC–AUD) as well as licensure requirements in most states.

Students seeking admission to the AuD program should download the application from www.unl.edu/barkley. Three letters of recommendation, preferably from former college instructors, should be submitted to the AuD program coordinator along with the departmental application. Students **do not** apply to the Office of Graduate Studies and submission of the Graduate Record Examination is not required for admission. Students should contact the Graduate Support Staff at special@unl.edu for further application instructions.

PhD/EdD Degree Programs. Students planning to work toward PhD or EdD degrees will follow essentially the same procedures for admission as described above under the masters degree programs. Students seeking admission into one of these programs should: 1) apply online to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the website at www.unl.edu/barkley or by emailing the Graduate Support Staff at special@unl.edu. Prospective students should submit three letters of recommendation along with the department application, a copy of their masters thesis and other relevant publications (if the student completed a thesis or has published) to the departmental Graduate Committee Chair. A current academic transcript and scores for the General Test of the Graduate Record Examination need to accompany the application when it is submitted to the Graduate Studies Office. Initial review of all applications is made within the Department of Special Education and Communication Disorders where consideration is given to whether an applicant meets the qualifications for entrance into the program and whether a student's interests are in accord with the type of education and direction the department faculty can provide. Final review of an application is made by the appropriate doctoral field graduate committee in special education or communications disorders.

Teaching, Learning and Teacher Education

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation). (<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

Interim Department Chair: L. James Walter, Ph.D.

Graduate Committee Chair: Kathleen Wilson, Ph.D.

The Department of Teaching, Learning and Teacher Education (TLTE) provides masters, specialist and doctoral degree courses and programs for teachers, administrators, and other educational leaders and practitioners with a focus on scholarship and practice in curriculum and instruction in schools and non-school educational settings. Graduate endorsements are also offered in Reading Specialist K-12 and ESL.

Masters Degrees.

The aim of the TLTE masters program is to help educators build on their own experience, achieve a broad and deep understanding of educational practice, develop a professional identity, and engage in informed conversations about important teaching and learning issues towards making wise judgments regarding the many complex issues educators face. All candidates must complete a program which conforms to the requirements listed on the [TLTE masters program](http://cehs.unl.edu/tlte/graduate/masters) (<http://cehs.unl.edu/tlte/graduate/masters>) web page. There are two masters degrees available in TLTE: the MA and MEd. Both degree programs offer a good deal of flexibility to enable the student--in concert with a faculty adviser--to develop a course of study that meets the student's needs and interests.

If you are interested in earning teacher certification at the elementary level in combination with a master degree, a 14 month full time program (MAet) is available. If instead you see yourself teaching at the middle school or high school level with a specialization in science or mathematics, read about our newest 14 month full time programs (MAmt and MAst) where you can qualify for teacher certification and earn a Master of Arts degree. A limited number of fellowships are available with the MAst and MAmt programs.

Educational Specialist (EdS) Degree.

This program in curriculum and instruction provides an opportunity for practitioners in the field to upgrade their professional skills. Two years of successful professional experiences is a minimum requirement for admission. Sixty-six hours beyond the bachelors degree, research competence, practicum experiences, and a written comprehensive examination are basic requirements for the program. It is recommended that you contact the department Graduate Chair before applying.

Doctoral Programs.

The EdD and PhD degrees are available under the major heading Educational Studies refer to the web page [doctoral programs in education](http://cehs.unl.edu/tlte/graduate/doctoral.shtml). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml>) The EdD is recommended for those whose primary interest is in the application of theory and knowledge to improve educational practice. The PhD is designed for students seeking to conduct research in order to generate new knowledge or reform educational theory. The Department of Teaching, Learning and Teacher Education administers three doctoral-level specializations, available for both the EdD and PhD in Educational Studies. Teaching, Curriculum and Learning focuses on teaching and learning processes; Instructional Technology focuses on using technology as a learning tool in various educational settings; and Internet-based Education focuses on using the Internet as a platform for teaching and learning. The most current information on these specializations is kept up-to-date on the web page for [TLTE doctoral programs](http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl>) For additional information, see or of this bulletin. The Graduate Record Examination (GRE) is required for admission to the doctoral programs and foreign students must also submit a TOEFL score.

Faculty

Educational Administration

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Educational Psychology

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Special Education and Communication Disorders

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders). (<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Teaching, Learning and Teacher Education

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation). (<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

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Statistics

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Courses for STAT (STAT)

AGRO

932

Biometrical Genetics and Plant Breeding

Crosslisted as *STAT 932*

[LINK \(http://bulletin.unl.edu/courses/AGRO/932\)](http://bulletin.unl.edu/courses/AGRO/932)

Prereqs:
AGRO 931 (<http://bulletin.unl.edu/courses/AGRO/931>)

*STAT *802 recommended. Offered odd-numbered calendar years.*

Theoretical concepts involved in planning breeding programs for the improvement of measurable morphological, physiological, and biochemical traits that are under polygenic control in crop plants of various types.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

FDST

Sensory Evaluation

430/830

Crosslisted as *STAT 430/830*

[LINK \(http://bulletin.unl.edu/courses/FDST/430\)](http://bulletin.unl.edu/courses/FDST/430)

Prereqs:
Introductory course in statistics.

Offered fall semester of odd-numbered calendar years.

Food evaluation using sensory techniques and statistical analysis.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

NRES

Ecological Statistics

803

Crosslisted as *STAT 803*

[LINK \(http://bulletin.unl.edu/courses/NRES/803\)](http://bulletin.unl.edu/courses/NRES/803)

Prereqs:
STAT *801 or equivalent.

Model-based inference for ecological data, generalized linear and additive models, mixed models, survival analysis, multi-model inference and information theoretic model selection, and study design.

Credit Hours:	4
Course Format:	Lab 1, Lecture 3
Campus:	
Course Delivery:	Classroom

STAT

Computational Biology

442/842

Crosslisted as *BIOC 442/842*

[LINK \(http://bulletin.unl.edu/courses/STAT/442\)](http://bulletin.unl.edu/courses/STAT/442)

Prereqs:
Any introductory course in biology, or genetics, or statistics.

Databases, high-throughput biology, literature mining, gene expression, next-generation sequencing, proteomics, metabolomics, systems biology, and biological networks.

Credit Hours:	3
Course Format:	Lab 2, Lecture 1
Course Delivery:	Classroom

STAT

Statistical Methods in Research

801

[LINK \(http://bulletin.unl.edu/courses/STAT/801\)](http://bulletin.unl.edu/courses/STAT/801)

Prereqs:
Introductory course in statistics.

This course is a prerequisite for: [AGRO 816E \(http://bulletin.unl.edu/courses/AGRO/816E\)](http://bulletin.unl.edu/courses/AGRO/816E), [AGRO 907 \(http://bulletin.unl.edu/courses/AGRO/907\)](http://bulletin.unl.edu/courses/AGRO/907), [AGRO 931 \(http://bulletin.unl.edu/courses/AGRO/931\)](http://bulletin.unl.edu/courses/AGRO/931), [CIVE 963 \(http://bulletin.unl.edu/courses/CIVE/963\)](http://bulletin.unl.edu/courses/CIVE/963), [CIVE 964 \(http://bulletin.unl.edu/courses/CIVE/964\)](http://bulletin.unl.edu/courses/CIVE/964), [AGRO 966 \(http://bulletin.unl.edu/courses/AGRO/966\)](http://bulletin.unl.edu/courses/AGRO/966)

Statistical concepts and statistical methodology useful in descriptive, experimental, and analytical study of biological and other natural phenomena. Practical application of statistics rather than on statistical theory.

Credit Hours:	4
Course Format:	Lab 2, Lecture 3
Campus:	
Course Delivery:	Classroom

STAT

Experimental Design

802

[LINK \(http://bulletin.unl.edu/courses/STAT/802\)](http://bulletin.unl.edu/courses/STAT/802)

Prereqs:
STAT *801.

Suitability and efficiency of various designs in conducting experimental investigations in related areas and the statistical analysis of the data.

Credit Hours: 4

Course Format: Lab 2, Lecture 3

Campus:

Course Delivery: Classroom

STAT
804

Survey Sampling

[LINK \(http://bulletin.unl.edu/courses/STAT/804\)](http://bulletin.unl.edu/courses/STAT/804)

Prereqs:
STAT 880 (<http://bulletin.unl.edu/courses/STAT/880>) or **IMSE 321** (<http://bulletin.unl.edu/courses/IMSE/321>) or permission

Sampling techniques: simple random sampling, sampling proportions, estimation of sample size, stratified random sampling, ratio and regression estimates.

Credit Hours: 3

Campus:

Course Delivery: Classroom

STAT
831

Spatial Statistics

[LINK \(http://bulletin.unl.edu/courses/STAT/831\)](http://bulletin.unl.edu/courses/STAT/831)

Prereqs:
STAT *802

Offered odd-numbered calendar years.

Statistical methods for modeling and analyzing correlated data, with emphasis on spatial correlation. Descriptive statistics, time series, correlograms, semivariograms, kriging and designing experiments in the presence of spatial correlation.

Credit Hours: 3

Campus:

Course Delivery: Classroom

STAT
832

Statistics in Sports

[LINK \(http://bulletin.unl.edu/courses/STAT/832\)](http://bulletin.unl.edu/courses/STAT/832)

Offered even-numbered calendar years.

Statistical methods useful for analyzing sports-related data. Descriptive statistics, graphical representations, experimental design, discriminant analysis and optimization.

Credit Hours: 2

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

STAT
841

Statistical methods for Micro-array and Related Technologies

[LINK \(http://bulletin.unl.edu/courses/STAT/841\)](http://bulletin.unl.edu/courses/STAT/841)

Prereqs:
STAT *801 or equivalent.

Basic biological concepts. Image analysis for two-color and oligonucleotide micro-arrays. Normalization, experimental design and mixed linear models for micro-array data. Empirical Bayes methods and false discovery rate. Clustering and gene category based methods. Tiling micro-arrays, massively parallel signature sequencing, and other related technologies.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

STAT
843

Next-Generation Sequencing and Systems Biology

[LINK \(http://bulletin.unl.edu/courses/STAT/843\)](http://bulletin.unl.edu/courses/STAT/843)

Prereqs:
Any introductory course in biology, statistics, computer science or mathematics.

Next-generation RNA and genome sequencing, systems biology. Regulatory

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

networks of transcription, protein-protein interaction networks, theory and practice. Databases, data integration and visualization. Students present computational biology publications and projects.

STAT
870

Multiple Regression Analysis

[LINK \(http://bulletin.unl.edu/courses/STAT/870\)](http://bulletin.unl.edu/courses/STAT/870)

Prereqs:
STAT *801, *802

This course is a prerequisite for: [STAT 974 \(http://bulletin.unl.edu/courses/STAT/974\)](http://bulletin.unl.edu/courses/STAT/974)

Linear regression and related analysis of variance and covariance methods for models with two or more independent variables. Techniques for selecting and fitting models, interpreting parameter estimates, and checking for consistency with underlying assumptions. Partial and multiple correlation, dummy variables, covariance models, stepwise procedures, response surfaces estimation, and evaluation of residuals.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

STAT
873

Applied Multivariate Statistical Analysis

[LINK \(http://bulletin.unl.edu/courses/STAT/873\)](http://bulletin.unl.edu/courses/STAT/873)

Prereqs:
STAT *801

This course is a prerequisite for: [STAT 973 \(http://bulletin.unl.edu/courses/STAT/973\)](http://bulletin.unl.edu/courses/STAT/973)

Multivariate techniques used in research. Reduction of dimensionality and multivariate dependencies, principle components, factor analysis, canonical correlation, classification procedures, discriminant analysis, cluster analysis, multidimensional scaling, multivariate extensions to the analysis of variance, and the general linear model.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

STAT
874

Nonparametric Statistics

[LINK \(http://bulletin.unl.edu/courses/STAT/874\)](http://bulletin.unl.edu/courses/STAT/874)

Prereqs:
STAT *801 or 880

Statistical methods useful when data does not adhere to classical distributional assumptions. Analysis of interval/ordinal/categorical data for one, two and k sample problems, correlation and regression, goodness-of-fit methods and related topics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

STAT
875

Categorical Data Analysis

[LINK \(http://bulletin.unl.edu/courses/STAT/875\)](http://bulletin.unl.edu/courses/STAT/875)

Prereqs:
STAT *801, *802 or *870 recommended

Measures of associating contingency tables analysis, chi-squared tests, log-linear and logistic models, generalized estimating equations, planning studies involving categorical data.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

STAT
880

Introduction to Mathematical Statistics

[LINK \(http://bulletin.unl.edu/courses/STAT/880\)](http://bulletin.unl.edu/courses/STAT/880)

Prereqs:
[MATH 208 \(http://bulletin.unl.edu/courses/MATH/208\)](http://bulletin.unl.edu/courses/MATH/208) or [107H \(http://bulletin.unl.edu/courses/MATH/107H\)](http://bulletin.unl.edu/courses/MATH/107H); [STAT 218](http://bulletin.unl.edu/courses/STAT/218)

Credit Hours:	3
Course Format:	Lecture 3

<http://bulletin.unl.edu/courses/STAT/218>) or equivalent

This course is a prerequisite for: [STAT 804](http://bulletin.unl.edu/courses/STAT/804) (<http://bulletin.unl.edu/courses/STAT/804>), [IMSE 806](http://bulletin.unl.edu/courses/IMSE/806) (<http://bulletin.unl.edu/courses/IMSE/806>), [AREN 817](http://bulletin.unl.edu/courses/AREN/817) (<http://bulletin.unl.edu/courses/AREN/817>), [STAT 884](http://bulletin.unl.edu/courses/STAT/884) (<http://bulletin.unl.edu/courses/STAT/884>), [STAT 885](http://bulletin.unl.edu/courses/STAT/885) (<http://bulletin.unl.edu/courses/STAT/885>), [MATH 489](http://bulletin.unl.edu/courses/MATH/489) (<http://bulletin.unl.edu/courses/MATH/489>), [MECH 945](http://bulletin.unl.edu/courses/MECH/945) (<http://bulletin.unl.edu/courses/MECH/945>), [ECON 957](http://bulletin.unl.edu/courses/ECON/957) (<http://bulletin.unl.edu/courses/ECON/957>), [CSCE 970](http://bulletin.unl.edu/courses/CSCE/970) (<http://bulletin.unl.edu/courses/CSCE/970>), [CSCE 973](http://bulletin.unl.edu/courses/CSCE/973) (<http://bulletin.unl.edu/courses/CSCE/973>), [CSCE 977](http://bulletin.unl.edu/courses/CSCE/977) (<http://bulletin.unl.edu/courses/CSCE/977>)

STAT 880 (<http://bulletin.unl.edu/courses/STAT/880>) is not open to students earning a MA or MS degree in mathematics or statistics.

Introductory mathematical statistics. Probability calculus; random variables, their probability distributions and expected values; sampling distributions; point estimation, confidence intervals and hypothesis testing theory and applications.

Campus:
Course Delivery: Classroom

STAT
882

Mathematical Statistics I–Distribution Theory

[LINK \(http://bulletin.unl.edu/courses/STAT/882\)](http://bulletin.unl.edu/courses/STAT/882)

Prereqs:
[MATH 208](http://bulletin.unl.edu/courses/MATH/208) (<http://bulletin.unl.edu/courses/MATH/208>) or [MATH 107H](http://bulletin.unl.edu/courses/MATH/107H) (<http://bulletin.unl.edu/courses/MATH/107H>).

This course is a prerequisite for: [STAT 883](http://bulletin.unl.edu/courses/STAT/883) (<http://bulletin.unl.edu/courses/STAT/883>)

Sample space, random variable, expectation, conditional probability and independence, moment generating functions, special distributions, sampling distributions, order statistics, limiting distributions and central limit theorem.

Credit Hours: 3
Campus:
Course Delivery: Classroom

STAT
883

Mathematical Statistics II–Statistical Inference

[LINK \(http://bulletin.unl.edu/courses/STAT/883\)](http://bulletin.unl.edu/courses/STAT/883)

Prereqs:
[STAT 882](http://bulletin.unl.edu/courses/STAT/882) (<http://bulletin.unl.edu/courses/STAT/882>)

Interval estimation; point estimation, sufficiency and completeness; Bayesian procedures; uniformly most powerful tests, sequential probability ratio test, likelihood ratio test, goodness of fit tests; elements of analysis of variance and nonparametric tests.

Credit Hours: 3
Campus:
Course Delivery: Classroom

STAT
884

Applied Stochastic Models

[LINK \(http://bulletin.unl.edu/courses/STAT/884\)](http://bulletin.unl.edu/courses/STAT/884)

Prereqs:
[STAT 880](http://bulletin.unl.edu/courses/STAT/880) (<http://bulletin.unl.edu/courses/STAT/880>) or [IMSE 321](http://bulletin.unl.edu/courses/IMSE/321) (<http://bulletin.unl.edu/courses/IMSE/321>) or equivalent

Introduction to stochastic modeling in operations research. Includes the exponential distribution and the Poisson process, discrete-time and continuous-time Markov chains, renewal processes, queueing models, stochastic inventory models, stochastic models in reliability theory.

Credit Hours: 3
Campus:
Course Delivery: Classroom

STAT
885

Applied Statistics I

[LINK \(http://bulletin.unl.edu/courses/STAT/885\)](http://bulletin.unl.edu/courses/STAT/885)

Prereqs:
[STAT 880](http://bulletin.unl.edu/courses/STAT/880) (<http://bulletin.unl.edu/courses/STAT/880>) or [IMSE 321](http://bulletin.unl.edu/courses/IMSE/321)

Credit Hours: 3
Campus:

(<http://bulletin.unl.edu/courses/IMSE/321>), and knowledge of matrix algebra

Course Delivery: Classroom

General linear models for estimation and testing problems analysis and interpretation for various experimental designs.

STAT
889 Statistics Seminar

[LINK \(http://bulletin.unl.edu/courses/STAT/889\)](http://bulletin.unl.edu/courses/STAT/889)

Prereqs:
Permission

Credit Hours: 1

Campus:

Course Delivery: Classroom

STAT
892 Topics in Statistics and Probability

[LINK \(http://bulletin.unl.edu/courses/STAT/892\)](http://bulletin.unl.edu/courses/STAT/892)

Prereqs:
Permission

Credit Hours: 1-5

Max credits per degree: 24

Campus:

Course Delivery: Classroom

Special topics in either statistics or the theory of probability.

STAT
898 Statistics Project

[LINK \(http://bulletin.unl.edu/courses/STAT/898\)](http://bulletin.unl.edu/courses/STAT/898)

Prereqs:
Permission

Credit Hours: 1-5

Max credits per degree: 5

Campus:

Course Delivery: Classroom

STAT
899 Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/STAT/899\)](http://bulletin.unl.edu/courses/STAT/899)

Prereqs:
Admission to the Masters Degree Program and permission of major adviser

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

STAT
902 Advanced Experimental Design

[LINK \(http://bulletin.unl.edu/courses/STAT/902\)](http://bulletin.unl.edu/courses/STAT/902)

Prereqs:
STAT *802.

Credit Hours: 3

Course Format: Lecture 2

Campus:

Course Delivery: Classroom

Advanced design concepts and methods used in research: construction, analysis and interpretation of incomplete block designs, split-plots, confounded and fractional factorials, response surface methods, and other topics.

STAT
904 Theory of Experimental Design

[LINK \(http://bulletin.unl.edu/courses/STAT/904\)](http://bulletin.unl.edu/courses/STAT/904)

Prereqs:
Permission

Credit Hours: 3

Theory of underlying construction and analysis of designed experiments. Multifactor designs, fractional factorials, incomplete block designs, row and column designs, orthogonal arrays, and response to surface designs. Optimality criteria. Mathematical and computer-aided design theory.

Campus:	
Course Delivery:	Classroom

STAT
930 Principles of Statistical Consulting

[LINK \(http://bulletin.unl.edu/courses/STAT/930\)](http://bulletin.unl.edu/courses/STAT/930)

Prereqs:
Permission

This course is a prerequisite for: [STAT 997 \(http://bulletin.unl.edu/courses/STAT/997\)](http://bulletin.unl.edu/courses/STAT/997)

STAT 930 (http://bulletin.unl.edu/courses/STAT/930) is primarily for graduate students in statistics.

Role and purpose of consulting. Statistical issues: understanding the client's problem and choosing an appropriate procedure. Interpersonal issues: client expectations, difficult clients, working effectively with people and teamwork.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

STAT
950 Bootstrap Methods and Their Application

[LINK \(http://bulletin.unl.edu/courses/STAT/950\)](http://bulletin.unl.edu/courses/STAT/950)

Prereqs:
STAT *883; STAT *870 or 970; prior experience with "R" software

Application, theory, and computational aspects of the bootstrap. Parametric, nonparametric, and jackknife re-sampling; influence function and nonparametric delta method; bootstrap confidence intervals and hypothesis tests; permutation tests; applications to regression; implementation using statistical software.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

STAT
960 Matrix Algebra Applications in Statistics

[LINK \(http://bulletin.unl.edu/courses/STAT/960\)](http://bulletin.unl.edu/courses/STAT/960)

Prereqs:
STAT *801 and *802

Concepts and matrix operations useful to expanding determinants, computing matrix inverses, determining ranks and linear (in)dependence, and finding latent roots and latent vectors. Introduction to matrix algebra applications in regression analyses and linear models.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

STAT
970 Linear Models

[LINK \(http://bulletin.unl.edu/courses/STAT/970\)](http://bulletin.unl.edu/courses/STAT/970)

Prereqs:
MATH 314 (http://bulletin.unl.edu/courses/MATH/314)/814 (http://bulletin.unl.edu/courses/MATH/814).

This course is a prerequisite for: [STAT 971 \(http://bulletin.unl.edu/courses/STAT/971\)](http://bulletin.unl.edu/courses/STAT/971), [STAT 972 \(http://bulletin.unl.edu/courses/STAT/972\)](http://bulletin.unl.edu/courses/STAT/972)

Methods and underlying theory for analyzing data based on linear statistical models. General linear model with specific models as special cases: including linear models applications.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

STAT
971 Advanced Statistical Modelling

[LINK \(http://bulletin.unl.edu/courses/STAT/971\)](http://bulletin.unl.edu/courses/STAT/971)

Prereqs:
STAT 970 (<http://bulletin.unl.edu/courses/STAT/970>)

Advanced theory and methods for statistical analysis. Systematic development of the needs and requirement of statistical modelling in research. Distribution and estimation theory for analysis of categorical data, survival data, data with correlated errors. Theory and practice of generalized linear models, mixed linear models. Introduction to non-linear models.

Credit Hours: 3

Campus:

Course Delivery: Classroom

STAT
972 Variance Component Estimation

[LINK \(http://bulletin.unl.edu/courses/STAT/972\)](http://bulletin.unl.edu/courses/STAT/972)

Prereqs:
STAT 970 (<http://bulletin.unl.edu/courses/STAT/970>)

Offered odd-numbered calendar years.

Design and analysis of random effects and mixed models Basic theoretical background for models with fixed effects, distribution of quadratic forms, quadratic estimators including ANOVA methods, likelihood estimators including ML and REML, computing strategies, and optimal design for nested and cross classifications.

Credit Hours: 3

Campus:

Course Delivery: Classroom

STAT
973 Theory of Multivariate Analysis

[LINK \(http://bulletin.unl.edu/courses/STAT/973\)](http://bulletin.unl.edu/courses/STAT/973)

Prereqs:
STAT 873 (<http://bulletin.unl.edu/courses/STAT/873>) or equivalent

Statistical inference concerning parameters of multivariate normal distributions with applications to multiple decision problems.

Credit Hours: 3

Campus:

Course Delivery: Classroom

STAT
974 Nonlinear Regression Analysis

[LINK \(http://bulletin.unl.edu/courses/STAT/974\)](http://bulletin.unl.edu/courses/STAT/974)

Prereqs:
STAT 870 (<http://bulletin.unl.edu/courses/STAT/870>) and introductory calculus.

Basic concepts of nonlinear models and their associated applications. Estimating the parameters of these models under the classical assumptions as well as under relaxed assumptions. Major theoretical results and implementation using standard statistical software.

Credit Hours: 3

Campus:

Course Delivery: Classroom

STAT
980 Advanced Probability Theory

[LINK \(http://bulletin.unl.edu/courses/STAT/980\)](http://bulletin.unl.edu/courses/STAT/980)

Prereqs:
MATH *825

Probability spaces and random variables, expectations and fundamental inequalities, characteristic functions, four types of convergence, central limit theorem, introduction to stochastic processes.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

STAT
982 Statistics Theory I

[LINK \(http://bulletin.unl.edu/courses/STAT/982\)](http://bulletin.unl.edu/courses/STAT/982)

Prereqs:
MATH *825 and STAT *883

This course is a prerequisite for: [STAT 983 \(http://bulletin.unl.edu/courses/STAT/983\)](http://bulletin.unl.edu/courses/STAT/983)

Credit Hours: 3

Course Format: Lecture 3

General decision problems, admissibility, mini-max and Bayes rules, invariance and unbiasedness, families of distributions problems in estimation theory.

Campus:	
Course Delivery:	Classroom

STAT
983

Statistics Theory II

[LINK \(http://bulletin.unl.edu/courses/STAT/983\)](http://bulletin.unl.edu/courses/STAT/983)

Prereqs:
[STAT 982 \(http://bulletin.unl.edu/courses/STAT/982\)](http://bulletin.unl.edu/courses/STAT/982)

UMP tests, likelihood ratio tests, confidence ellipsoid multiple decision and multiple comparisons, sequential decision problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

STAT
992

Advanced Topics in Probability and Statistics

[LINK \(http://bulletin.unl.edu/courses/STAT/992\)](http://bulletin.unl.edu/courses/STAT/992)

Prereqs:
Permission

Special topics in either statistics or probability.

Credit Hours:	1-5
Max credits per degree:	24
Campus:	
Course Delivery:	Classroom

STAT
997

Practicum in Statistical Consulting

[LINK \(http://bulletin.unl.edu/courses/STAT/997\)](http://bulletin.unl.edu/courses/STAT/997)

Prereqs:
[STAT 930 \(http://bulletin.unl.edu/courses/STAT/930\)](http://bulletin.unl.edu/courses/STAT/930)

Participation in statistical consulting activities of the Statistics Department under faculty supervision. Prepare written reports to clients summarizing consultation results and to statistics supervisor summarizing statistical issues and findings.

Credit Hours:	4
Course Format:	Field
Campus:	
Course Delivery:	Classroom

STAT
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/STAT/999\)](http://bulletin.unl.edu/courses/STAT/999)

Prereqs:
Admission to Doctoral Degree Program and permission of supervisory committee

Credit Hours:	1-24
Campus:	
Course Delivery:	Classroom

Ω

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/Statistics\)](http://www.unl.edu/gradstudies/prospective/programs/Statistics).

Interim Department Chair: Stephen Kachman, Ph.D.

Graduate Committee: Professors Eskridge (chair), Bilder, Parkhurst, Zhang

Graduate programs are offered leading to a master of science and a doctor of philosophy in statistics.

Master of Science Degree

The program of study for the masters degree may be under Options I, II, or III, with Option III the most common and Option I, the thesis option, rare. The primary aim of the statistics masters program is to provide students with an education that equips them to be competent practitioners of applied statistics. Programs can be tailored to emphasize applications in the biological sciences, environmental sciences, economics, engineering, agriculture, survey statistics or other areas of interest. Competence includes mastery of statistical theory and methods, significant exposure to disciplines with which statisticians interact, facility with statistical

consulting tools, and training and experience with statistical consulting. Programs can also be tailored to prepare students who plan to go on for doctoral study.

Requirements are designed to allow flexibility in designing programs around individual student needs. Students are expected to take a common core consisting of two semesters of mathematical statistics, (STAT 882 and 883), two semesters of statistical modeling (STAT 970 and 971), one semester of design and analysis of experiments (STAT 802), and one semester of multivariate methods (STAT 873). In addition, students must attain proficiency in a statistical computing language, gain statistical consulting experience and become familiar with at least one discipline to which statistics is applied. Students are required to pass a comprehensive examination based on ability to integrate material from the core curriculum. Students who choose a non-thesis option are required to complete a project. All students must present a seminar as part of their masters program.

Doctor of Philosophy Degree

The goal of the statistics PhD program is to train students to conduct original methodological and/or theoretical research in statistics and to apply advanced statistical methods to scientific problems. Students are expected to take advanced graduate classes in the theory and applications of statistics and other relevant classes. The PhD program requires a qualifying exam, a PhD comprehensive exam and a final oral exam. The Statistics PhD Qualifying Examination is intended to verify mastery of tasks that require integration among fundamental statistics courses, (STAT 802, 882, 883, and 970). Each PhD student in statistics must complete courses in advanced statistical modeling (STAT 971), advanced probability (STAT 980) and the two-semester advanced statistical inference sequence (STAT 982 and 983). In addition, students must complete twelve hours of 900-level classes excluding STAT 970, 997 and 999. The PhD requires 90 hours of graduate credit, including a dissertation. At least 45 hours must be completed at UNL after the filing of the program of studies which must be approved by the student's PhD graduate committee. The PhD program typically includes 20 to 25 hours of dissertation research. In addition there is a research tool requirement.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/Statistics). (<http://www.unl.edu/gradstudies/prospective/programs/Statistics>)

Retrieved from "<http://bulletin.unl.edu/graduate/Statistics> (<http://bulletin.unl.edu/graduate/Statistics>)"
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Survey Research and Methodology

Q

Courses for SRAM (SRAM)

EDPS 941	Intermediate Statistics: Experimental Methods Crosslisted as <i>SRAM 941</i>	LINK (http://bulletin.unl.edu/courses/EDPS/941)
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Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Computation, interpretation, and application of analysis of variance techniques, including factorial and mixed model designs. Computer and microcomputer software accessed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS 942	Intermediate Statistics: Correlational Methods Crosslisted as <i>SRAM 942</i>	LINK (http://bulletin.unl.edu/courses/EDPS/942)
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Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Various correlational-based statistical procedures presented, including linear and nonlinear regression, multiple regression, statistical control, analysis of interactions, the general linear model, factor analysis, and discriminant analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS 970	Theory and Methods of Educational Measurement Crosslisted as <i>SRAM 970</i>	LINK (http://bulletin.unl.edu/courses/EDPS/970)
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Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) and [870 \(http://bulletin.unl.edu/courses/EDPS/870\)](http://bulletin.unl.edu/courses/EDPS/870); [EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/SRAM/941\)](http://bulletin.unl.edu/courses/SRAM/941); or equivalent

Presentation of various measurement theories and concepts, including classical true-score theory, reliability and validity, test construction, item response theory, test equating, test bias, and criterion-referenced tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

971**Structural Equation Modeling**Crosslisted as *SRAM 971*[LINK \(http://bulletin.unl.edu/courses/EDPS/971\)](http://bulletin.unl.edu/courses/EDPS/971)**Prereqs:**EDPS/*SRAM 942* (<http://bulletin.unl.edu/courses/SRAM/942>) and *970* (<http://bulletin.unl.edu/courses/SRAM/970>); or equivalent

Introduction to the techniques of path analysis, confirmatory factor analysis, and structural equation modeling with emphasis on the set-up and interpretation of different models using the LISREL program. Model testing and evaluation, goodness-of-fit indices, violations of assumptions, specification searches, and power analyses.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

972**Multivariate Analysis**Crosslisted as *SRAM 972*[LINK \(http://bulletin.unl.edu/courses/EDPS/972\)](http://bulletin.unl.edu/courses/EDPS/972)**Prereqs:**EDPS/*SRAM 941* (<http://bulletin.unl.edu/courses/SRAM/941>) and *942* (<http://bulletin.unl.edu/courses/SRAM/942>)

Techniques of multivariate analyses, including multivariate analysis of variance and covariance, multivariate multiple regression, multigroup discriminant analysis, canonical analysis, repeated measures (Multivariate model), and time series. Mathematical models presented and analyzed. Instruction complemented by appropriate statistical software packages.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MRKT

824**Advanced Quantitative Analysis in Marketing**Crosslisted as *SRAM 824*[LINK \(http://bulletin.unl.edu/courses/MRKT/824\)](http://bulletin.unl.edu/courses/MRKT/824)**Prereqs:**

GRBA *813 or equivalent, or permission

Review, evaluation, and design of advanced marketing research investigations. State-of-the-art methodological issues relevant to marketing to provide an understanding of multivariate data analysis pertinent to the marketing literature. Analysis of linkage, structure, and causality/change for marketing phenomena.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

MRKT

998D**Seminar in Special Topics**Crosslisted as *SRAM 998D*[LINK \(http://bulletin.unl.edu/courses/MRKT/998D\)](http://bulletin.unl.edu/courses/MRKT/998D)**Prereqs:**

Permission

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

POLS

800**Research Methods**Crosslisted as *SRAM 800*[LINK \(http://bulletin.unl.edu/courses/POLS/800\)](http://bulletin.unl.edu/courses/POLS/800)

Basic techniques used in quantitative political science research. The general linear model. Basic probability theory, ordinary least squares regression, and how to solve problems often encountered when conducting quantitative analyses in political science.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

PSYC

946**Psychology of Survey Response**Crosslisted as *SRAM 946*[LINK \(http://bulletin.unl.edu/courses/PSYC/946\)](http://bulletin.unl.edu/courses/PSYC/946)

Cognitive and communicative processes affect on dynamics of survey

Credit Hours:	3
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interviewing and relationships to principles of survey design. Effects of question wording on comprehension; question order and context on attitude; communicative and retrieval processes on validity of retrospective behavioral reports; and impact of response alternatives on answers.

Campus:
Course Delivery: Classroom

PSYC

947

Questionnaire Design

Crosslisted as *SOCI 947, SRAM 947*

[LINK \(http://bulletin.unl.edu/courses/PSYC/947\)](http://bulletin.unl.edu/courses/PSYC/947)

Design of questionnaires for survey research and the theoretical and practical issues arising from them. Selection of appropriate measurement techniques for assessing opinions, past behaviors and events, and factual material.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

SOCI

463/863

Quantitative Methods of Social Research I

Crosslisted as *SRAM 863*

[LINK \(http://bulletin.unl.edu/courses/SOCI/463\)](http://bulletin.unl.edu/courses/SOCI/463)

Prereqs:

[SOCI 101 \(http://bulletin.unl.edu/courses/SOCI/101\)](http://bulletin.unl.edu/courses/SOCI/101), [205 \(http://bulletin.unl.edu/courses/SOCI/205\)](http://bulletin.unl.edu/courses/SOCI/205), and [206 \(http://bulletin.unl.edu/courses/SOCI/206\)](http://bulletin.unl.edu/courses/SOCI/206); and permission.

The logic and techniques of sociological analysis: techniques of scaling and index construction; contingency table analysis; measures of association; parametric and nonparametric statistical inference; and generalizations from systematic findings.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom

SOCI

902

Seminar in Research Methods

Crosslisted as *SRAM 902*

[LINK \(http://bulletin.unl.edu/courses/SOCI/902\)](http://bulletin.unl.edu/courses/SOCI/902)

Prereqs:

Permission

Credit Hours: 3
Max credits per degree: 9
Campus:
Course Delivery: Classroom

SRAM

816

Principles of Survey Analysis

[LINK \(http://bulletin.unl.edu/courses/SRAM/816\)](http://bulletin.unl.edu/courses/SRAM/816)

Introduction to the basic principles of causality and inductive logic in contemporary social and behavioral science. One, two, and multi-way layouts in analysis of variance, fixed effects models, and linear regression in several variables; the Gauss-Markov-Theorem; multiple regression analysis; and basic principles of experimental and quasi-experimental designs.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

SRAM

817

Cross-cultural and Multi-population Survey Methodology

[LINK \(http://bulletin.unl.edu/courses/SRAM/817\)](http://bulletin.unl.edu/courses/SRAM/817)

Multi-national research projects and the methodological challenges. Key aspects of cross-national, cross-cultural survey research, study design and organization; survey error and bias; question design; harmonization; adaptation and translation; survey process quality monitoring and control; and process and output documentation.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

SRAM

Data Collection Methods

Crosslisted as *SOCI 818*

[LINK \(http://bulletin.unl.edu/courses/SRAM/818\)](http://bulletin.unl.edu/courses/SRAM/818)

818

Effects of various data collection methods on survey errors. The strengths, weaknesses, and challenges of data collection modes and mixed-mode methods. Processes underlying data collection and practical challenges that arise with each mode; coverage error; nonresponse error; interviewer effects and training; timing; and mode effects.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SRAM

819**Applied Sampling**Crosslisted as *SOCI 819*[LINK \(http://bulletin.unl.edu/courses/SRAM/819\)](http://bulletin.unl.edu/courses/SRAM/819)

Design of probability samples, sampling populations of humans and unique challenges posed by such populations, restricted by cost and available sampling frames. Simple random sampling, stratification, cluster sampling, systematic sampling, multistage sampling, and probability proportional to size sampling, area probability sampling, and telephone samples.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SRAM

894**Professional Development in Survey Research**[LINK \(http://bulletin.unl.edu/courses/SRAM/894\)](http://bulletin.unl.edu/courses/SRAM/894)

Pass/No Pass only. SRAM 894 (http://bulletin.unl.edu/courses/SRAM/894) provides first year MS students with a grounding in key principles and components of professional practice needed for a career in survey research and related fields. This course will replace the SRAM 898 (http://bulletin.unl.edu/courses/SRAM/898) course sub-titled Professional Development in Survey Research.

Credit Hours:	1-2
Max credits per semester:	1
Max credits per degree:	2
Course Format:	Lecture 1
Course Delivery:	Classroom

Basic principles of practice including ethical requirements and procedures, IRB and CIDI, personal conduct, plagiarism. Introduction to relevant databases, data archives, key surveys. Practice in critical discussion, report and abstract writing, creating and presenting conference papers.

SRAM

895**Internship**[LINK \(http://bulletin.unl.edu/courses/SRAM/895\)](http://bulletin.unl.edu/courses/SRAM/895)

Prereqs:
Permission

Experience applying concepts and methods of survey research in preparation for a professional career.

Credit Hours:	3-6
Campus:	
Course Delivery:	Classroom

SRAM

896**Practicum in Survey Research and Methodology**[LINK \(http://bulletin.unl.edu/courses/SRAM/896\)](http://bulletin.unl.edu/courses/SRAM/896)

Prereqs:
Permission

Application of theory and research gained during internship.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SRAM

898**Special Topics**[LINK \(http://bulletin.unl.edu/courses/SRAM/898\)](http://bulletin.unl.edu/courses/SRAM/898)

Topic varies.

Credit Hours:	3
Max credits per degree:	24

Campus:	
Course Delivery:	Classroom

SRAM
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/SRAM/899\)](http://bulletin.unl.edu/courses/SRAM/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

SRAM
915

Advanced Sampling

[LINK \(http://bulletin.unl.edu/courses/SRAM/915\)](http://bulletin.unl.edu/courses/SRAM/915)

Advanced topics related to sampling error in surveys. Complex sample designs used to measure populations of humans, effect of nonresponse on sampling error and data analysis; methods available to "repair" the missing information; the implications of complex sample designs for analyses; and variance estimation.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SRAM
920

Instrument Design and Development for Cross-cultural Surveys

[LINK \(http://bulletin.unl.edu/courses/SRAM/920\)](http://bulletin.unl.edu/courses/SRAM/920)

Design instruments for multi-population surveys and to produce versions in different languages. Major approaches and strategies used in cross-national and cross-cultural research to design, test, adapt, and translate instruments for multilingual use.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SRAM
921

Total Survey Error

[LINK \(http://bulletin.unl.edu/courses/SRAM/921\)](http://bulletin.unl.edu/courses/SRAM/921)

Common language of survey errors across social science disciplines. Causes of survey coverage, nonresponse, measurement, and processing errors; techniques used to reduce the error in practice; and statistical models and designs that exist to measure the error. Implications of cost and trade-offs between error sources.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SRAM
922

Randomized and Nonrandomized Research Design

[LINK \(http://bulletin.unl.edu/courses/SRAM/922\)](http://bulletin.unl.edu/courses/SRAM/922)

Logic of causal inference in research design. Obstacles to causal inference, faulty measurement, un-representativeness, spuriousness, specification errors, and confounds, Experimental and quasi-experimental designs, with inferential pitfalls peculiar to each design. Statistical procedures to illustrate the logic behind various data analytic approaches and the different problems that can limit conclusions derived from these tools.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SRAM
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/SRAM/999\)](http://bulletin.unl.edu/courses/SRAM/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	

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Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary](#). (<http://www.unl.edu/gradstudies/prospective/programs/SRAM>)

Program Director and Graduate Chair: Robert Belli, Ph.D.

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Survey Research and Methodology (SRAM) Graduate Programs of Study

The SRAM degree programs prepare students for professional positions and leadership in survey research disciplines in the U.S. context and around the world. The skills and knowledge SRAM students acquire enable them to collect, interpret, and present empirical data in cogent and powerful ways relevant for professional contexts.

The SRAM program offers a certificate as well as a master of science (MS) and a doctor of philosophy (PhD) degree. The curricula are interdisciplinary and combine theory with practical application. Students receive a thorough grounding in all aspects of survey methodology from study design through data collection to data analysis.

The MS program is a two-year, non-thesis program designed to train students to fill the expanding need in the public and private sectors for people who are able to design, execute and analyze survey research. Graduates can expect to find challenging, creative and well-paid positions in the private and nonprofit sectors; in media, research, government, and business. The program requires 47 credits; 29 in the core and elective areas, 9 in a minor area of emphasis and 9 in an internship and a related practicum. Core areas studied include general survey methodology, applied sampling, intermediate and advanced statistics, cognitive aspects of survey design, and cross-cultural and cross-national methodology. Minor areas of emphasis in the MS degree can include business, educational psychology, marketing, political science, psychology, public administration, sociology or statistics.

The PhD program is a four-year program that requires a dissertation of original work that advances knowledge in the field of survey methodology. In addition to advanced opportunities in government, business and nonprofit sectors, PhD graduates are expected to have opportunities in academic settings. The PhD requires completion of the MS program in Survey Research and Methodology or a comparable qualification. The PhD program requires a minimum of 90 credits. Students will have a choice of emphasis (study tracks) in either statistics or design and implementation more generally.

Both MS and PhD programs in Survey Research and Methodology are based on interdisciplinary curricula and the combination of theory and practice in instruction.

The Certificate program is an 18-credit, six-course program which provides a firm grounding in survey research methods in a limited amount of time. The program can be completed in nine months, August to early May. It is designed to meet the needs of people possibly already active in the business world who recognize the advantages to be gained through a solid understanding of survey methods and data analysis. It should suit anyone who wants to add this important area of expertise to their qualifications without engaging in an MS-length course of study. At the same time, all Certificate courses can count towards an MS in Survey Methodology. Core courses include the principles of survey analysis, the total survey error paradigm, applied sampling, questionnaire design, and data collection methods. Students choose a sixth elective course from among a range of core course options in the SRAM MS program.

Applications to SRAM. Students seeking admission must apply through the UNL Office of Graduate Studies. The application can be found at: www.unl.edu/gradstudies/prospective/app-degree.shtml. Applications are due by January 15 of each year.

Graduate Studies also requires MS and PhD program applicants to submit test scores from all sections of the Graduate Record Examinations (GRE) or from the GMAT (for students seeking to minor in marketing); two official copies of transcripts from all colleges/universities attended. Where relevant, applicants from abroad are also required to submit TOEFL results. These items should be mailed to:

Graduate Admissions Office
University of Nebraska-Lincoln
1100 Seaton Hall
Lincoln, NE 68588-0619

All applicants must submit a personal statement explaining their interest in pursuing a degree in survey research and methodology and include three letters of recommendation. The personal statement and letters of recommendation are to be sent to:

SRAM Program Admissions
University of Nebraska-Lincoln
201 North 13th Street
Lincoln, NE 68588-0241

SRAM Funding Opportunities. The Gallup Organization funds a number of scholarships for the SRAM degree programs. SRAM applicants interested in applying for one of these scholarships are asked to take the Clifton StrengthsFinder®. Students accepted into the PhD degree program normally receive SRAM

graduate assistantships. For more information on these funding opportunities and the Clifton StrengthsFinder®, please contact the SRAM office. All UNL programs have possibilities to fund exceptional out-of-state students.

Research Opportunities. Students in the graduate programs in Survey Research and Methodology have access to research opportunities through assistantships, on-going faculty research, conference participation, as well as internships and practica in the MS program.

Opportunities Abroad. The Survey Research and Methodology graduate program has an on-going one-semester exchange opportunity with the post-graduate program in Quantitative Analysis in the Social Sciences (QASS) at the Catholic University in Brussels, Belgium. Both SRAM and the QASS are heavily invested in the modeling and analysis of quantitative survey data, and the communication of these analyses to key decision and policy makers. The QASS program attracts leading quantitative faculty from across Europe and the U.S. to provide up-to-the-moment instruction on the latest developments in quantitative methodology and analysis.

0 Master of Science Program Description

The curriculum constitutes a total of 47 credit hours of study, divided between 29 credit hours in the core and elective research areas, 9 credit hours in the student's minor area of emphasis, and 9 credit hours in the student's internship and practicum.

Master of Science Curriculum. An introductory (undergraduate) statistics course is a program prerequisite. New students lacking this prerequisite will be expected to fulfill this requirement **without program credit** in their first semester of study.

Major Requirements (29 credits) Core Areas: One course (or equivalent) from each of the 9 areas listed below (26 credits) and one elective (3 credits) are required.

1. Professional Development:
 - SRAM 890
2. Data Collection Methods: Face-to-face, telephone, mail, and internet data collection methods; impact of data collection methods on survey errors; mode effects
 - SRAM 818
3. Research Design: Experimental design; quasi-experimental design; panel designs; and quantitative v. qualitative data collection and analysis
 - SRAM 898
 - SRAM 922
 - STAT 802
4. Survey Error and Measurement: Reliability, validity, bias; measurement models; and scale analysis
 - SRAM 921
 - EDPS 870
 - PSYC 948
5. Sampling: Sampling design; variance estimation and adjustment; and response rates and bias
 - SRAM 815
 - SRAM 915
 - STAT 804
6. Instrument Design and Evaluation: Questionnaire design; cognitive and communicative processes in answering survey questions; question- and response-order effects; attitude measurement; measurement of facts and behaviors.
 - SRAM/PSYC 946
 - SRAM/PSYC 947
 - One SRAM course TBA
 - One SRAM course TBA
7. Cross Cultural Survey Research: Study design; study specifications; study management; instrument design; instrument adaptation and translation; instrument testing; data collection
 - SRAM 817
 - SRAM 920
8. Intermediate Statistics: Multivariate analysis; ordinary least squares and logit regression; and analysis of interaction effects
 - SRAM 816
 - EDPS 969
 - SRAM/SOCI 863
 - SRAM/EDPS 941
 - SRAM/EDPS 942
 - STAT 870
9. Advanced Statistics: Structural equation modeling; modeling categorical data; discriminant analysis; general linear models; and conjoint analysis
 - PSYC 944
 - PSYC 945
 - SRAM/MRKT 824
 - SRAM 898
 - SRAM/SOCI 902
 - SRAM/EDPS 971
 - SRAM/EDPS 972
 - STAT 873
 - STAT 875
 - STAT 880
 - STAT 882
 - STAT 883

- STAT 885
- STAT 970

Please Note: One course each (or equivalent) from the intermediate and advanced statistics areas, or two courses from the advanced statistics area (6 credits) are required. Courses in the Core Areas may NOT be taken as Pass/No Pass. SRAM students are required to earn a grade of B or better in each Core Area course.

Research Electives (3 credits). With the major adviser's approval, students choose one additional course to broaden their training in survey research and methodology. A course used to fill one of the required content areas may not also be used as an elective. However, with the adviser's approval, a student can take a second course from a required topic area and have this count as an elective. Electives may include courses in research methods, analysis, the theory of public opinion, program evaluation, qualitative methods, philosophy of science, market research, consulting, data reporting or other areas, at the adviser's discretion.

Minor Requirements (9 credits). Students in survey research and methodology choose a minor area of emphasis from a wide variety of fields such as: sociology, political science, psychology, educational psychology, marketing, statistics, journalism, public administration, or education. This allows students to hone their skills and knowledge for particular future career environments. Students will select a minor area adviser in their selected area who will assist in the selection of courses in this area. Some minor areas require 12 credit hours. In such cases, students may elect to use one course as both a research elective and as a minor requirement.

Internship and Practicum (9 credits total). Students in the survey research and methodology MS program are required to complete an internship (6 credits) and practicum (3 credits). Internship opportunities will be arranged with one of several commercial survey and market firms, media groups, governmental agencies, academic research establishments and nonprofit associations. These internships normally take place between the students' first and second years of residence.

Internship (6 credits). The internship is a crucial component of student training in the SRAM program and reflects our philosophy of combining survey practice with theory. As part of their participation in actual research settings, students may be required to attend seminars covering ethics, contribute to grant writing, and work with statistical packages (e.g., SPSS, SAS, LIMDEP, GAUSS, S-PLUS, Stata) or data collection systems (e.g., CAPI, CASI, CATI).

Practicum (3 credits). Students complete a written practicum that is based on elements of their internship.

More information on the internship/practicum can be found at: <http://sram.unl.edu/prospectiveandcurrentstudents/PACS1.asp> (<http://sram.unl.edu/prospectiveandcurrentstudents/PACS1.asp>).

MS Comprehensive Examination

M.S. students must pass a written comprehensive examination covering the core areas of survey research and methodology at the M.S. level. A Final Examination Report (found at: <http://www.unl.edu/gradstudies/current/degrees#masterss> (<http://www.unl.edu/gradstudies/current/degrees#masterss>)) must be submitted to the office of Graduate Studies four weeks prior to the administration of the final exam. This report will be accepted after all course work on the Memorandum of Courses has been completed, or is in process, and any incompletes have been removed. The comprehensive final exam will be administered during the semester in which the student intends to graduate with the exception of summer graduates. Students intending to graduate in August must take the final exam in the spring semester. Dates for MS comprehensive examinations are decided on an annual basis, depending partly on Graduate Studies grade result deadlines.

0 Doctor of Philosophy Program Description

The PhD program builds on the kind of skills and knowledge acquired in the SRAM MS program in Survey Research and Methodology. To be admitted into the PhD program, applicants must usually have completed a masters degree or its equivalent in Survey Research and Methodology, or a related field accepted by the Graduate Committee. Anyone accepted into the program may be required to complete courses that demonstrate that their credentials match the skills and knowledge that students acquire from earning an MS in Survey Research and Methodology. These required courses must be completed in order to become eligible to have a Supervisory Committee appointed. Decisions about which courses are required will rest with the Graduate Committee.

The PhD program consists of a minimum of 90 credit hours. These may include transfer credits for students who have earned degrees outside of the University of Nebraska-Lincoln; 45 credit hours must be earned after the appointment of the PhD student's Supervisory Committee. No courses may be taken on a Pass/No Pass basis and all PhD students are required to maintain a cumulative grade point average of 3.5 or higher.

The PhD program is designed to train students both in the issues that govern sound survey research practice and in the theoretical frameworks of those disciplines that contribute to Survey Research and Methodology. Students will opt for either statistical or design and implementation tracks, each of which have their own sets of requirements. The PhD dissertation must consist of an original research contribution that advances knowledge in the field of Survey Research and Methodology and demonstrates the candidate's expertise in both practice and theory.

Doctor of Philosophy Curriculum

Language and Research Tool Requirement Prior to admission to candidacy, students must demonstrate proficiency in technical and scientific writing. The student's supervisory committee may require course work as part of the language and research tool requirement.

Core Courses (minimum of 15 credit hours) Core courses are designed to ensure that students acquire the methodological and theoretical skills necessary to design sound Survey Research and Methodological studies. Ph.D. students must satisfy the core course requirements of the SRAM MS program. The following courses (or equivalents) are also required:

- SRAM 915 – Advanced Sampling
- SRAM 921 – Total Survey Error
- SRAM 947 – Questionnaire Design
- SRAM 998 – Advanced Topics in Survey Analysis (Special Topics)
- SRAM 998 – Survey Management (Special Topics)

Statistical or Design and Implementation Tracks (minimum of 15 credit hours) Each student's supervisory committee will tailor a program of study that best matches the student's interests and strengths. Students will decide either to follow a statistical track or to follow a design and implementation track in their course of studies. Within either track, their studies will concentrate on essential aspects that contribute to Survey Research and Methodology.

Within the statistical track, students will be required to complete course work and seminars dealing with statistical, probability and sampling theory. For example, courses on the general linear model, mixed and hierarchical linear models, issues in advanced sampling, finite mixture models, analysis of data from complex sample designs, missing data imputation and related topics will be included in this track.

Within the design and implementation track, students complete course work in their areas of interest such as cognitive and social psychology, health and educational research, cross-cultural comparative research, or in any social science discipline that is dependent on survey data to draw scientific inferences.

PhD Comprehensive Examination In order to advance to candidacy (to be able to submit a dissertation), the student must pass a written comprehensive examination demonstrating mastery in core areas of Survey Research and Methodology and also in the student's specialty area which is chosen from the statistical or the design and implementation tracks. In general, students are expected to pass the comprehensive examination before submitting a dissertation proposal.

The general purpose of the SRAM PhD comprehensive examination is to demonstrate mastery in both core and specialty areas of Survey Research and Methodology. The goal of the exam on core areas of survey methodology is to demonstrate each student's breadth of knowledge across the fundamental areas of survey methodology. The goal of the exam on a student's specialty area is to demonstrate depth of knowledge in a particular area in which the student wants to be considered an expert after completion of the Program.

Details of the Ph.D comprehensive examination

PhD students will be provided with a reading list with regard to the core areas of survey methodology. In addition, students will be required to develop their own reading list for their specialty area. This needs to be submitted in a timely fashion for approval by the student's supervisory committee.

The examination will consist of two five-hour sessions over two days. The examination will be closed book, that is, no books, notes, or electronic files of any kind are to be used. Students will be presented with four questions for each session, and will be required to answer three of these in each session, thus answering six questions in total. Day one of the final exam will cover core areas, day two will cover the student's specialty area.

Students have the choice to write their answers by hand or to type in their answers electronically on a computer. Examinations will be proctored. The scheduling of the examination, and who will serve as graders of the examination, requires approval by the student's supervisory committee and the majority consent of the core SRAM faculty.

Steps for Ph.D. comprehensive examination

1. The supervisory committee works with the student to a) create a proposed reading list for the specialty section of the examination, b) determine who will be the proposed question writers and graders for the specialty section (who must be either supervisory committee members or SRAM core faculty), and c) determine a proposed date in which the examination is to take place.
2. The supervisory committee chair notifies all of SRAM core faculty with a) the proposed specialty section reading list, b) the proposed question writers and graders for the specialty section, and c) determine a proposed examination date. The provision of these materials must be submitted to the SRAM core faculty (including the graduate chair) at least one month before the proposed examination date. SRAM core faculty are defined as Graduate Faculty who have at least a .5 FTE in SRAM.
3. The graduate chair determines whether there is majority approval from the SRAM core faculty on the examination provisions that are proposed by the supervisory committee (via the supervisory committee chair). The graduate chair notifies the supervisory committee chair of any necessary revisions to the proposed plan within two weeks following the provision of materials. If any revisions are to be made, the supervisory committee must a) resubmit the revised plan to each of the SRAM core faculty, and b) allow for an additional week to receive majority approval from the SRAM core faculty on revisions to the plan. If the revisions are deemed to be inadequate, the process continues to cycle until majority approval is obtained. The date of the examination will be postponed as needed to accommodate majority approval.
4. Under the auspices of the Graduate Chair, the graduate committee seeks agreement among the SRAM core faculty who will serve as the question writers and graders for the core section of the examination to meet any agreed upon examination date.
5. As needed, approved examination question writers and graders will be informed that they are to determine a grade (a letter grade, letter grade range, or a judgment as to failure, pass, or high pass) and to provide comments on how the grade was determined for each question to which they are responsible, and which the student has answered.
6. Following the administration of the examination, the Graduate Chair collects the grades and comments from each of the graders of the core section of the examination, and the Supervisory Committee Chair collects the grades and comments from each of the graders of the specialty section of the examination. The Graduate Chair submits the core section grades and comments to the Supervisory Committee Chair. On the basis of these grades and comments, the Supervisory Committee makes a determination on whether the student has passed the examination.
7. If the Supervisory Committee Chair is the Graduate Chair, the Director serves in the capacity of the Graduate Chair for the purposes of these proceedings.

Dissertation Research (minimum of 12 credit hours). As an original contribution to the knowledge base of Survey Research and Methodology, the dissertation must consist of an empirical study that includes analysis of primary or secondary data sources, or both. For completion of degree requirements, in addition to a written dissertation, students must pass an oral dissertation defense as required by Graduate Studies.

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Certificate Program Description

The University approved and certified Certificate in Survey Research and Methodology is designed to meet the needs of people active in the business world who recognize the advantages to be gained through a firm grounding in survey research methods and analysis.

SRAM faculty have backgrounds in Statistics, Survey Science, Sociology, Cognitive Psychology, Marketing, Political Science, Linguistics, and Educational Psychology. We are thus ideally situated to meet the needs of students from a wide range of public and private sector organizations.

The time needed to complete the 18 credit Certificate program depends on the number of courses per semester a student completes. Assuming a 9 credit per semester workload, the 18-credit, and 6-course program can be completed in nine months, beginning end of August and finishing early May.

Five courses from the MS program are required courses for the Certificate qualification. Certificate students choose their sixth elective course from among the SRAM MS core curriculum offerings (excepting intermediate statistics courses).

Certificate Curriculum

- SRAM 816 – Principles of Survey Analysis
- SRAM 819 – Applied Sampling

- SRAM/PSYC 947 – Questionnaire Design
- SRAM 921 – Total Survey Error
- SRAM 818 – Data Collection Methods
- One elective from SRAM MS core curriculum with the exception of an Intermediate Statistics course

Ω Minoring in Survey Research and Methodology

Students from other departments at UNL can choose to minor in survey research and methodology at either the MS or PhD level. The courses expected for each minor are required below. Contact the SRAM Graduate Chair for more information.

MS minor in Survey Research and Methodology

12 credits from SRAM MS core curriculum as approved by a minor advisor who must be a member of the SRAM core faculty. The minor would likely include courses in Instrument Design and Evaluation, Data Collection Methods, and Sampling. SRAM core faculty consist of Graduate Faculty with at least a .5 FTE in the SRAM program.

PhD minor in Survey Research and Methodology

- SRAM 819 – Applied Sampling
- SRAM/PSYC 947 – Questionnaire Design
- SRAM 921 – Total Survey Error
- SRAM 818 – Data Collection Methods
- An Intermediate or Advanced Statistics course from the SRAM MS core curriculum
- One elective from SRAM MS core curriculum with the exception of an Intermediate Statistics course

Electives must be taken with the approval of a minor advisor who must be a member of the SRAM core faculty. SRAM core faculty consists of Graduate Faculty with at least a .5 FTE in the SRAM program.

Advising

All students majoring in Survey Research and Methodology and students enrolled in the Certificate program are assigned an SRAM advisor. MS students must also select a minor areas advisor.

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Education

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Ω Courses for EDUC (EDUC)

SPED 892	Special Topics in Education Crosslisted as <i>EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892</i>	LINK (http://bulletin.unl.edu/courses/SPED/892)
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Prereqs:
[EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or parallel; [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

Ω Courses for CEHS (CEHS)

CEHS 467/867	International Cultures Experience in the Local Community	LINK (http://bulletin.unl.edu/courses/CEHS/467)
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Lecture and discussion will be required as part of the field discussion.
Field hours will be assigned at the rate of three hours per week.

Credit Hours:	3
Course Format:	Field 3

An international cultural experience in the local community by providing field-based learning experiences in community centers, schools, and human services agencies in the local community. The course will study immigrant families in the U.S. through observing and participating in community activities and through readings, discussions, and reflective journaling that integrate lessons from the field with theory and research.

Course Delivery: Classroom, Web

CEHS **International Experience in Communities, Schools, and Families** [LINK \(http://bulletin.unl.edu/courses/CEHS/494\)](http://bulletin.unl.edu/courses/CEHS/494)
494/894

Lecture and discussion will be required as part of the field experience. Field hours will be assigned at the rate of two hours per week per student credit hour.

Instructor-guided experiences of a culture in another nation in order to critically examine individual and cross-cultural differences in values, lifestyles, education, history and culture of international families, schools, and communities.

Credit Hours:	1-6
Max credits per semester:	3
Max credits per degree:	6
Course Format:	Field 2
Course Delivery:	Classroom

0
Courses for EDAD (EDAD)

EDAD **Foundations of Human Resource Development** [LINK \(http://bulletin.unl.edu/courses/EDAD/421\)](http://bulletin.unl.edu/courses/EDAD/421)
421/821

Lays the foundation for further study of Human Resource Development (HRD) by examining the knowledge of HRD professionals, the roles they play, and the organizational settings in which HRD occurs. The design and development of education and training programs, how change occurs in organizations, how career development can optimize the match between individual and organizational goals and needs, and how to improve performance in organizations by analyzing performance opportunities and designing employee training to address these opportunities.

Credit Hours:	3
Course Delivery:	Classroom

EDAD **Instructional Design in Human Resource Development** [LINK \(http://bulletin.unl.edu/courses/EDAD/422\)](http://bulletin.unl.edu/courses/EDAD/422)
422/822

Examines the role of instruction for enhancing human learning and performance in organizations. The analysis of performance problems/opportunities and design of interventions for learning and performance improvement. The essential components of instruction, selecting instructional methods and media to achieve program objectives, the transfer of learning, and evaluating the effectiveness of instruction. The performance enhancing potential of systematically linking needs analysis, instructional design, and program evaluation.

Credit Hours:	3
Course Delivery:	Classroom

EDAD **Cross-Cultural Leadership Studies** [LINK \(http://bulletin.unl.edu/courses/EDAD/801\)](http://bulletin.unl.edu/courses/EDAD/801)
801

Prereqs:
Permission

For those interested in exploring leadership and leadership issues from a cross-cultural perspective. Students construct their understanding of different cultural perspectives on leadership through readings, interviews, and field trips. Provides students with a valuable perspective on their own and other cultural perspectives through the comparison of cultural viewpoints. Native American understanding of leadership.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

811**Practicum in Educational Administration and Supervision**[LINK \(http://bulletin.unl.edu/courses/EDAD/811\)](http://bulletin.unl.edu/courses/EDAD/811)**Prereqs:
Permission**

May be repeated for credit. Rating and supervision of teachers; principles and procedures in the development of school policies; selection and promotion of teachers; courses of study and professional ethics.

Credit Hours:	3-4
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

EDAD

813**Administration in Physical Education and Athletics**[LINK \(http://bulletin.unl.edu/courses/EDAD/813\)](http://bulletin.unl.edu/courses/EDAD/813)

Organization and administration of physical education and athletic programs in colleges and school systems. Practices and policies as they relate to various situations and problems and in the theoretical base for these practices and policies.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

814**Risk Management for Sport Facilities**[LINK \(http://bulletin.unl.edu/courses/EDAD/814\)](http://bulletin.unl.edu/courses/EDAD/814)

Legal and risk management aspects of construction, supervision, and management of sport, athletic, and recreation indoor and outdoor facilities.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

830**Administrative Theory in Educational Organizations**[LINK \(http://bulletin.unl.edu/courses/EDAD/830\)](http://bulletin.unl.edu/courses/EDAD/830)

Introduction to classic and contemporary administrative theory as applied to educational organizations. The theoretical nature of the course content is relevant to those with an interest in a broad variety of educational institutions. General organizational theory, organizational models, historical schools of administrative theory, authority, power, motivation, and leadership. Frequently students are involved in studying problems of practice as a means of testing theory.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

833**Educational Finance**[LINK \(http://bulletin.unl.edu/courses/EDAD/833\)](http://bulletin.unl.edu/courses/EDAD/833)

Critical analysis of the political and economic elements impacting K-12 school finance. Content and activities address both building and district level concerns with an emphasis on principles, programs, and trends in school finance.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

835**Business Management of Schools**[LINK \(http://bulletin.unl.edu/courses/EDAD/835\)](http://bulletin.unl.edu/courses/EDAD/835)

Allocation and management of fiscal resources including aspects of financial planning and reporting, budgeting and accounting procedures, purchasing, risk management and insurance, investing and bond issues, and auxiliary service.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

Planning for Change[LINK \(http://bulletin.unl.edu/courses/EDAD/836\)](http://bulletin.unl.edu/courses/EDAD/836)

836

Rationale for planning in a changing environment will be explored; the theoretical base for planning presented; strategic, futuristic planning and operational planning explored; the development of planning strategies, techniques and procedures; the process of evaluation, feedback and revisions explored; and the management of the change process analyzed.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

Education Law[LINK \(http://bulletin.unl.edu/courses/EDAD/837\)](http://bulletin.unl.edu/courses/EDAD/837)**837**

Evolution, principles, and practice of education law in relation to local, state, and national units of organization. Education law of Nebraska.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

Educational Surveys[LINK \(http://bulletin.unl.edu/courses/EDAD/838\)](http://bulletin.unl.edu/courses/EDAD/838)**838**

School systems and its educational program in terms of needs of attendance area served. Organization and interpretation of pertinent data and formulation of recommendations for improvement of educational systems. Long-range planning.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

Educational Facilities[LINK \(http://bulletin.unl.edu/courses/EDAD/839\)](http://bulletin.unl.edu/courses/EDAD/839)**839**

Techniques for planning educational facilities through use of surveys, educational specifications, and standards. Function of the school administrator in school facilities planning, construction, and utilization.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDAD

College Students in America[LINK \(http://bulletin.unl.edu/courses/EDAD/842\)](http://bulletin.unl.edu/courses/EDAD/842)**842**

This course is designed to provide students an understanding of a broad range of facts and issues pertaining to undergraduate college students in America.

Credit Hours:	3
Course Format:	Lecture 2.33
Course Delivery:	Classroom

EDAD

Counseling Principles for Educational Administrators[LINK \(http://bulletin.unl.edu/courses/EDAD/843\)](http://bulletin.unl.edu/courses/EDAD/843)**843**

This is an introductory level counseling course designed specifically for educational administrators. It is not intended to prepare individuals to become professional counseling practitioners. It offers a broad overview of counsel principles. This is a theory-to-practice course.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDAD

Faculty and Staff Appraisal[LINK \(http://bulletin.unl.edu/courses/EDAD/851\)](http://bulletin.unl.edu/courses/EDAD/851)**851**

Faculty and support staff in P-12 schools: appraisal, professional learning communities, high standards/high performance and accountability.

Credit Hours:	3
Campus:	

EDAD

852**School Culture and Student Behavior**[LINK \(http://bulletin.unl.edu/courses/EDAD/852\)](http://bulletin.unl.edu/courses/EDAD/852)

School culture and student behavior in P-12 schools. Personalized teaching and learning environments that address student diversity, needs and interests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

855**Teaching Learners to Learn**[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

856**Supervising Special Education**[LINK \(http://bulletin.unl.edu/courses/EDAD/856\)](http://bulletin.unl.edu/courses/EDAD/856)Crosslisted as *SPED 856*

For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

857**Special Education Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/857\)](http://bulletin.unl.edu/courses/EDAD/857)Crosslisted as *SPED 857*

Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

858**Special Education Law**[LINK \(http://bulletin.unl.edu/courses/EDAD/858\)](http://bulletin.unl.edu/courses/EDAD/858)Crosslisted as *SPED 858*

Body of law that pertains to the organization, administration, and implementation of special education programs in PreK-12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

870**Constitutional Law I**[LINK \(http://bulletin.unl.edu/courses/EDAD/870\)](http://bulletin.unl.edu/courses/EDAD/870)Crosslisted as *LAW 609G*

Structure of the federal government, including the history and judicial interpretation of the Constitution, federalism, interstate commerce, due process, equal protection, and separation of powers.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

871**Constitutional Law II**Crosslisted as *LAW 732G*[LINK \(http://bulletin.unl.edu/courses/EDAD/871\)](http://bulletin.unl.edu/courses/EDAD/871)

Emphasizes protected individual civil liberties. The origin and modern applicability of the state action concept in constitutional litigation; the scope of congressional power to enforce the post Civil War amendments; freedom of speech, association, and press; and constitutional principles enforcing the first amendment's command that "Congress shall make no law respecting an establishment of religion, or prohibiting the free exercise thereof."

Credit Hours:	1-4
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Campus:	
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Course Delivery:	Classroom
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EDAD

872**Introduction to Law, Legal Process, and Legislation**[LINK \(http://bulletin.unl.edu/courses/EDAD/872\)](http://bulletin.unl.edu/courses/EDAD/872)

How law is made and changed, the role of the individual, the business corporation, the private association, the administrative agency, the voting public, the legislature, and the courts in making and changing law.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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EDAD

874**Torts I**Crosslisted as *LAW 503G*[LINK \(http://bulletin.unl.edu/courses/EDAD/874\)](http://bulletin.unl.edu/courses/EDAD/874)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours:	1-6
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Max credits per degree:	6
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Campus:	
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Course Delivery:	Classroom
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EDAD

875**Torts II**[LINK \(http://bulletin.unl.edu/courses/EDAD/875\)](http://bulletin.unl.edu/courses/EDAD/875)

Legal protection afforded in civil proceedings against interference with the security of one's person, property, relations, and other intangible interests. Substantive principles that govern tort claims (ranging from claims for intentional wrongdoing, to negligence claims, to claims that the defendant is strictly liable for harms caused to the plaintiff), and the theoretical bases and practical implications of such claims.

Credit Hours:	1-6
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Max credits per degree:	6
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Campus:	
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Course Delivery:	Classroom
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EDAD

880B**Designing Instructional Technology K-12**[LINK \(http://bulletin.unl.edu/courses/EDAD/880B\)](http://bulletin.unl.edu/courses/EDAD/880B)

Credit Hours:	1-3
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Max credits per degree:	3
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Campus:	
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Course Delivery:	Classroom
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EDAD

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/890\)](http://bulletin.unl.edu/courses/EDAD/890)

Refer to *Workshop Seminars in Education* under the "Education" section of this bulletin.

Campus:	
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Course Delivery:	Classroom
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EDAD

Workshop Seminar[LINK \(http://bulletin.unl.edu/courses/EDAD/893\)](http://bulletin.unl.edu/courses/EDAD/893)

893

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDAD

896**Independent Study**

[LINK \(http://bulletin.unl.edu/courses/EDAD/896\)](http://bulletin.unl.edu/courses/EDAD/896)

Prereqs:
Permission

Selected topic with the direction and guidance of a staff member.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD

899**Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/EDAD/899\)](http://bulletin.unl.edu/courses/EDAD/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6-10
Campus:	
Course Delivery:	Classroom

EDAD

901**System-Level School Improvement**

[LINK \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901)

This course is a prerequisite for: [EDAD 902 \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

Knowledge and skills required for system-level leaders to bring about school improvement and enhance student achievement. Creating systems that engage the public, performing in complex political environments, and delivering needed services to schools and classrooms.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

902**Data for Action Planning**

[LINK \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902)

Prereqs:
[EDAD 901 \(http://bulletin.unl.edu/courses/EDAD/901\)](http://bulletin.unl.edu/courses/EDAD/901).

[EDAD 902 \(http://bulletin.unl.edu/courses/EDAD/902\)](http://bulletin.unl.edu/courses/EDAD/902) requires developing an initial school improvement plan.

Assessment theory and types of assessments used to measure student performance relative to a school improvement goal. Relationships between profile data and baseline data, locally developed classroom assessments, and post data pertaining to school improvement goals and action plans.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD

903**Issues in Community Relations**

[LINK \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903)

This course is a prerequisite for: [EDAD 904 \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

Principles of community relations and public relations; development of school and community understanding; collaboration of educators and community agents and agencies; communication tools and evaluation.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

Analysis in Continuous Improvement

[LINK \(http://bulletin.unl.edu/courses/EDAD/904\)](http://bulletin.unl.edu/courses/EDAD/904)

904

Prereqs:

[EDAD 903 \(http://bulletin.unl.edu/courses/EDAD/903\)](http://bulletin.unl.edu/courses/EDAD/903).

EDAD 904 (http://bulletin.unl.edu/courses/EDAD/904) requires generating recommendations for proceeding into the next cycle of school improvement and conducting a personal self-analysis of improvement process skills and obtain information from supervisors and/or colleagues regarding abilities as a

Analyze how staff attitudes and behaviors are impacted through the improvement process.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD 905

Issues in Governance of Educational Institutions

[LINK \(http://bulletin.unl.edu/courses/EDAD/905\)](http://bulletin.unl.edu/courses/EDAD/905)

Issues in the governance of K-12 schools including administrator-school board roles and relationships.

Credit Hours:	1-3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

EDAD 906

Issues in System Level Administration

[LINK \(http://bulletin.unl.edu/courses/EDAD/906\)](http://bulletin.unl.edu/courses/EDAD/906)

Prereqs:

Masters degree or equivalent.

Selected system level issues faced by pre-K to grade 12 school administrators.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDAD 907

Issues in Educational Politics and Policies

[LINK \(http://bulletin.unl.edu/courses/EDAD/907\)](http://bulletin.unl.edu/courses/EDAD/907)

Analyze and evaluate policy processes involved in making choices; develop understanding, apply and evaluate knowledge about key political concepts and theories to the analysis of educational policy issues; analyze and evaluate issues as points of political conflict between institutional structures with competing interests; understand people as the actors in roles they occupy in the political system.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 908/929

Seminar in Adult and Continuing Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Crosslisted as *EDPS 929*

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD 909

Seminar in Human Resource Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/909\)](http://bulletin.unl.edu/courses/EDAD/909)

Prereqs:

[EDAD 821 \(http://bulletin.unl.edu/courses/EDAD/821\)](http://bulletin.unl.edu/courses/EDAD/821) or [822 \(http://bulletin.unl.edu/courses/EDAD/822\)](http://bulletin.unl.edu/courses/EDAD/822)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

Current research and theory within the field of human resource development, broadly defined. Stresses key problems affecting the training, development, and education of human resources within organizational settings.

EDAD

910

The Higher Education Environment

[LINK \(http://bulletin.unl.edu/courses/EDAD/910\)](http://bulletin.unl.edu/courses/EDAD/910)

Universities are adaptive, living systems interacting with their environment. Equips participants with the skills required to analyze and assess the environment of higher education institutions. Environment concepts, components and structures are studied together with analysis techniques and methodological approaches to future study.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

912A

Educational Leadership in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/912A\)](http://bulletin.unl.edu/courses/EDAD/912A)

Strategic thinking, application of leadership theories in the educational setting. Develop a clear personal philosophy of leadership and engage in collaborative active-learning. Multi-media simulations and/or scenarios and role playing to examine options, consequences, and leadership effectiveness in decision-making.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

912B

Educational Leadership in Community Colleges

[LINK \(http://bulletin.unl.edu/courses/EDAD/912B\)](http://bulletin.unl.edu/courses/EDAD/912B)

Issues facing community college leaders and the knowledge, skills, and competencies necessary to provide effective leadership in the community college setting. Case studies of community colleges, combined with the literature on community college leadership, and active learning opportunities to examine current practices and develop a personal philosophy of leadership.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

921

Administrative Issues in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/921\)](http://bulletin.unl.edu/courses/EDAD/921)

Introduction to contemporary issues in the administration of higher education with a focus on the scholarly literature, a comparative analysis of administration in types of institutions, leadership and planning, institutional and environmental issues, and selected topics.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

922

Finance in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/922\)](http://bulletin.unl.edu/courses/EDAD/922)

Federal and state government funding, institutional planning, technological and community influences, human resources finance, budgeting, and sources of financial support as they relate to higher education institutions and agencies.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

923

The Community/Junior College

[LINK \(http://bulletin.unl.edu/courses/EDAD/923\)](http://bulletin.unl.edu/courses/EDAD/923)

Designed particularly for those interested in upper secondary and college

Credit Hours: 3

levels. Junior college movement; relationship of movement to provisions for an adequate educational program; functions of the junior college; legal status and basis for extension of junior college; problems of organization, administration, and curriculum.

Course Format: Lecture

Campus:

Course Delivery: Classroom

EDAD

924

Administration of Higher Education Instructional Programs

[LINK \(http://bulletin.unl.edu/courses/EDAD/924\)](http://bulletin.unl.edu/courses/EDAD/924)

Administration of higher education instructional programs. Exploration of curricular issues including an assessment of program quality and reputation, program reallocations, retrenchments, and expansions.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

925

Law and Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/925\)](http://bulletin.unl.edu/courses/EDAD/925)

Examination of legal principles applicable to higher education institutions. Overview of the legal system, higher education institutions as legal entities, authority for governance and administration, faculty rights and responsibilities, student rights and responsibilities, institutional and personal liability, and other selected issues.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

926

The American Professoriate: An Administrative Perspective

[LINK \(http://bulletin.unl.edu/courses/EDAD/926\)](http://bulletin.unl.edu/courses/EDAD/926)

Contemporary faculty issues in postsecondary education institutions from the perspective of college administrators. Current status of faculty, assigning faculty workloads and monitoring performance levels, evaluating faculty performance, structuring development activities, and special topics.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

931

Higher Education Information Systems

[LINK \(http://bulletin.unl.edu/courses/EDAD/931\)](http://bulletin.unl.edu/courses/EDAD/931)

Foundation in management information systems. Issues in information systems, current research and writings, key terms, and how information systems impacts organizational culture, business processes, work-flow, and overall operations of an institution. The roles in the application, analysis, and management of higher education administration technology.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

932

Global Issues in Higher Education

[LINK \(http://bulletin.unl.edu/courses/EDAD/932\)](http://bulletin.unl.edu/courses/EDAD/932)

Selected issues affecting global educational policies and practices.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

933

Strategic Planning

[LINK \(http://bulletin.unl.edu/courses/EDAD/933\)](http://bulletin.unl.edu/courses/EDAD/933)

EDAD 933 (http://bulletin.unl.edu/courses/EDAD/933) requires the student to analyze their respective institution's planning process and plan, and to participate in a simulation activity that reinforces the principles and

Credit Hours: 3

Course Format: Lecture 3

System theory, practice and problem solving. The strategic planning process in higher education. Models of strategic planning.

Campus:

Course Delivery: Classroom

EDAD

934**Teaching and Learning in the Community College**[LINK \(http://bulletin.unl.edu/courses/EDAD/934\)](http://bulletin.unl.edu/courses/EDAD/934)

Develop comprehensive understanding of five aspects of the community college: Curricular missions in general education, transfer education, career education, remedial/developmental education and community education; faculty and student populations; exemplary teaching and assessment of student learning outcomes; program and curriculum development; and human resources aspects related to instructional programs in hiring faculty and providing faculty development programs.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

935**Workforce, Economic, and Community Development**[LINK \(http://bulletin.unl.edu/courses/EDAD/935\)](http://bulletin.unl.edu/courses/EDAD/935)

Workforce, economic and community development role of higher education within the broader context of recent economic, social, and technological changes in communities, society, and the economy. Applicable to higher education in general with an emphasis on the example of two-year community colleges.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDAD

948**Instructional Leadership: Emerging Trends and Practices**[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)Crosslisted as *TEAC 948*

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

956**Employment Law Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/956\)](http://bulletin.unl.edu/courses/EDAD/956)Crosslisted as *LAW 759G*

Selected current national and state legal issues pertaining to private and public employment.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

959**Law and Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/959\)](http://bulletin.unl.edu/courses/EDAD/959)Crosslisted as *LAW 695G*

Current legal issues of national significance relating to educational institutions; analysis of constitutional provisions, statutes, and court decisions affecting education; separation of church and state; rights of equality; student rights, responsibilities, and discipline; application of criminal and juvenile provisions; use of school property; control of the curriculum and extracurricular activities; contractual and tort liability; hiring, collective actions, tenure, outside activities, discharge, and retirement of teachers; confidentiality; accrediting agencies; and similar current legal matters.

Credit Hours: 1-4

Campus:

Course Delivery: Classroom

EDAD

Public Employment Law[LINK \(http://bulletin.unl.edu/courses/EDAD/960\)](http://bulletin.unl.edu/courses/EDAD/960)

960

Legal issues relating to public employment with particular emphasis on public schools and colleges; collective bargaining by public employees, impasse, and resolution of public employee disputes; grievances, arbitration, and enforcement of agreements; civil rights of public employees; and laws applicable to public employment apart from collective bargaining, such as discrimination acts, wage and hour laws, retirement plans, and public records.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

961**Trial Advocacy**[LINK \(http://bulletin.unl.edu/courses/EDAD/961\)](http://bulletin.unl.edu/courses/EDAD/961)**Prereqs:**

LAW 646G (<http://bulletin.unl.edu/courses/LAW/646G>).

Students perform weekly exercises which are videotaped and critiqued and will try a case. Fundamentals of trial practice. Emphasis on questioning witnesses, selecting and addressing the jury, and admitting items into evidence.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

963**Legislation Seminar**

Crosslisted as *LAW 777G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/963\)](http://bulletin.unl.edu/courses/EDAD/963)

Development of further skills in drafting and interpreting statutes, understanding legislative processes and decision making, and evaluating the role of legislation in governmental regulation. Opportunity for in-depth study of subjects pertaining to or involving legislation, centering on subjects considered by the Nebraska Legislature and the Nebraska legislative process.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

964**Local Government Law**

Crosslisted as *LAW 788G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/964\)](http://bulletin.unl.edu/courses/EDAD/964)

Law of local government units with emphasis on current problems in the operation and administration of local government, models and theories of local government.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

966**Seminar in Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/966\)](http://bulletin.unl.edu/courses/EDAD/966)**Prereqs:**
Permission

Education administration problems with an analysis of research and literature pertaining to these problems.

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDAD

968**Education Law Seminar**

Crosslisted as *LAW 621G*

[LINK \(http://bulletin.unl.edu/courses/EDAD/968\)](http://bulletin.unl.edu/courses/EDAD/968)

Selected current national and state legal issues pertaining to education.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

970**Criminal Law**Crosslisted as *LAW 508G*[LINK \(http://bulletin.unl.edu/courses/EDAD/970\)](http://bulletin.unl.edu/courses/EDAD/970)

Substantive criminal law, focusing on the theoretical foundations, general principles, and doctrines that govern the rules of liability and defenses, both in the common law tradition and under the Model Penal Code.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

971**Evidence**Crosslisted as *LAW 646G*[LINK \(http://bulletin.unl.edu/courses/EDAD/971\)](http://bulletin.unl.edu/courses/EDAD/971)

Relevancy and admission of evidence, including hearsay, opinions, privileges, other exclusionary rules, examination of witnesses, judicial notice, and physical evidence.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

973**Jurisprudence**Crosslisted as *LAW 672G*[LINK \(http://bulletin.unl.edu/courses/EDAD/973\)](http://bulletin.unl.edu/courses/EDAD/973)

What is good and what is bad about law; the judicial process; principal schools of jurists; theories of the nature of law and the legal order; the American social system and the law; obligations to obey or to disobey the law; and ideas of justice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD

976**Legal Control of Discrimination**Crosslisted as *LAW 680G*[LINK \(http://bulletin.unl.edu/courses/EDAD/976\)](http://bulletin.unl.edu/courses/EDAD/976)

Selected legal issues pertaining to the legal control of discrimination.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

977**Constitutional History**Crosslisted as *LAW 619/619G*[LINK \(http://bulletin.unl.edu/courses/EDAD/977\)](http://bulletin.unl.edu/courses/EDAD/977)

American constitutional history with a focus on "transformative" moments at which the Constitution and the nature of American politics and government changed. American Revolution and the framing of the Constitution and Bill of Rights, Civil War and Reconstruction, and the New Deal. Exploration of the courts and how they stood on history and original intent when they interpret the Constitution.

Credit Hours:	1-4
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDAD

978**Mass Communications Law**Crosslisted as *LAW 649G*[LINK \(http://bulletin.unl.edu/courses/EDAD/978\)](http://bulletin.unl.edu/courses/EDAD/978)

In-depth focus on the first amendment. Includes legal distinctions between the print and broadcast media, free press and fair trial, access to media, and licit and illicit ideas.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDAD

979**Seminar in College Student Personnel Work**Crosslisted as *EDPS 979*[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research

Credit Hours:	2-3
Max credits per degree:	6

literature, some field experiences, and in-depth examination of special topics.

Campus:

Course Delivery: Classroom

EDAD

981

Introduction to Research

[LINK \(http://bulletin.unl.edu/courses/EDAD/981\)](http://bulletin.unl.edu/courses/EDAD/981)

A written report is required. Investigation and analysis of current problems in education administration and supervision.

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

EDAD

988

Dissertation Proposal Development

[LINK \(http://bulletin.unl.edu/courses/EDAD/988\)](http://bulletin.unl.edu/courses/EDAD/988)

Prereqs:
Admission to a doctoral program

Intended for students who are working on the development of their dissertation proposal. Component parts of the dissertation proposal. Students from all areas of Teachers College and the University of Nebraska who are in the process of developing their proposal will find this course to be of use. Typically the course should be taken after the research tools have been completed.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

989

Survey of Administrative Research

[LINK \(http://bulletin.unl.edu/courses/EDAD/989\)](http://bulletin.unl.edu/courses/EDAD/989)

Intended primarily for students of education who are candidates for doctoral degrees. Readings, discussions, and an analysis of educational problems and research.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/990\)](http://bulletin.unl.edu/courses/EDAD/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD

991

Field Studies in Education

Crosslisted as *NUTR 991, TEAC 991*

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDAD

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDAD/993\)](http://bulletin.unl.edu/courses/EDAD/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:

Course Delivery: Classroom

EDAD

995**Doctoral Seminar**[LINK \(http://bulletin.unl.edu/courses/EDAD/995\)](http://bulletin.unl.edu/courses/EDAD/995)**Prereqs:**
Permission

Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice. Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

EDAD

998**Seminar: Internship in Educational Administration**[LINK \(http://bulletin.unl.edu/courses/EDAD/998\)](http://bulletin.unl.edu/courses/EDAD/998)**Prereqs:**
Permission

Opportunity for educational administrators to gain an understanding of administering changes or innovations, and to obtain supervised field experience. Consideration will be given antecedents of change, change models, the role of government, forces that restrict or stimulate change, tools to implement change, and evaluation.

Credit Hours:	1-6
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDAD

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/EDAD/999\)](http://bulletin.unl.edu/courses/EDAD/999)**Prereqs:**
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

EDPS

900J**Historical Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)Crosslisted as *EDAD 900J***Prereqs:**
EDPS *800 or equivalent; EDPS 459
<http://bulletin.unl.edu/courses/EDPS/459/859>
<http://bulletin.unl.edu/courses/EDPS/859> or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

977**Seminar in College Student Development**[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)Crosslisted as *EDAD 980*

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED

892**Special Topics in Education**[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC 425/825 **Coordination in Occupational Training Programs**

[LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)

Crosslisted as *EDAD 825*

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours:	1-3
Course Delivery:	Classroom

Courses for EDPS (EDPS)

ANTH 478/878 **Pro-seminar in Latin American Studies**

[LINK \(http://bulletin.unl.edu/courses/ANTH/478\)](http://bulletin.unl.edu/courses/ANTH/478)

Crosslisted as *HIST 478/878, POLS 478/878, SOCI 478/878, MODL 478/878, LAMS 478, GEOG 478/878, EDPS 478/878*

Prereqs:
Junior standing and permission.

Topical seminar required for all Latin American Studies majors.

An interdisciplinary analysis of topical issues in Latin American Studies.

Credit Hours:	3
Max credits per degree:	6
Course Delivery:	Classroom
Groups:	Integrative Courses, Research and Reading

EDAD 855 **Teaching Learners to Learn**

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 908/929 **Seminar in Adult and Continuing Education**

[LINK \(http://bulletin.unl.edu/courses/EDAD/908\)](http://bulletin.unl.edu/courses/EDAD/908)

Crosslisted as *EDPS 929*

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

EDAD 979 **Seminar in College Student Personnel Work**

[LINK \(http://bulletin.unl.edu/courses/EDAD/979\)](http://bulletin.unl.edu/courses/EDAD/979)

Crosslisted as *EDPS 979*

Current professional issues related to the organization and administration of student personnel within higher education. Exploration of research

Credit Hours:	2-3
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literature, some field experiences, and in-depth examination of special topics.

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDPS

Psychology of Adolescence

[LINK \(http://bulletin.unl.edu/courses/EDPS/451\)](http://bulletin.unl.edu/courses/EDPS/451)

451/851

Mental, social, and emotional development of boys and girls during the adolescent period.

Credit Hours: 3

Course Delivery: Classroom

EDPS

Human Cognition and Instruction

[LINK \(http://bulletin.unl.edu/courses/EDPS/454\)](http://bulletin.unl.edu/courses/EDPS/454)

454/854

Cognitive psychology and its applications in instruction. Memory, problem solving, cognitive process in reading, research approaches, and applications to teaching.

Credit Hours: 3

Course Delivery: Classroom

EDPS

Statistical Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)

459/859

This course is a prerequisite for: [EDPS 800 \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800), [EDPS 470 \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470), [NUTR 486 \(http://bulletin.unl.edu/courses/NUTR/486\)](http://bulletin.unl.edu/courses/NUTR/486), [EDPS 900A \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A), [EDPS 900B \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B), [EDPS 900D \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D), [EDPS 900I \(http://bulletin.unl.edu/courses/EDPS/900I\)](http://bulletin.unl.edu/courses/EDPS/900I), [EDPS 900K \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Credit Hours: 3

Course Delivery: Classroom

ACE Outcomes: 3?

Computation and interpretation of measures of central position, variability, and correlation; introduction to sampling, probability, and tests of significance.

EDPS

Psychology of Disability

[LINK \(http://bulletin.unl.edu/courses/EDPS/462\)](http://bulletin.unl.edu/courses/EDPS/462)

462/862

Research and theoretical literature related to the relationship between various disabling conditions and the psychological functioning of the person with disability.

Credit Hours: 3

Course Delivery: Classroom

EDPS

Introduction to Applied Behavior Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/463\)](http://bulletin.unl.edu/courses/EDPS/463)

463/863

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Research methods and findings, concepts, and principles of operant conditioning as related to the experimental analysis of human behavioral events and to the development of behavior engineering technologies.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

EDPS

Practices in Counseling and Personnel Services

[LINK \(http://bulletin.unl.edu/courses/EDPS/465\)](http://bulletin.unl.edu/courses/EDPS/465)

465/865

Basic practices and related research in counseling and helping practices in

Credit Hours: 1-8

educational or other youth-serving agencies. Specialized applications to populations presenting unique problems are offered in sections B through L. B. Special Practices for Handicapped Children and Youth (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). D. Special Practices for Exceptionally Talented and Gifted (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). E. Special Practices in the Elementary School (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). K. Special Practices for Vocational Education/Development Programs (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A). L. Special Practices for Community Helpers Working with Adults (1 cr) Prereq or parallel: [EDPS 465A \(http://bulletin.unl.edu/courses/EDPS/465A\)](http://bulletin.unl.edu/courses/EDPS/465A)/[865A \(http://bulletin.unl.edu/courses/EDPS/865A\)](http://bulletin.unl.edu/courses/EDPS/865A).

Max credits per degree: 8

Course Format: Lecture

Course Delivery: Classroom

EDPS

469/869

Psychopathological Disorders of Childhood and Adolescence

[LINK \(http://bulletin.unl.edu/courses/EDPS/469\)](http://bulletin.unl.edu/courses/EDPS/469)

Investigation of the genesis, course, classification, and treatment of function and organic pathologies found in children and adolescents.

Credit Hours: 3

Course Delivery: Classroom

EDPS

470/870

Introduction to Educational and Psychological Measurement

[LINK \(http://bulletin.unl.edu/courses/EDPS/470\)](http://bulletin.unl.edu/courses/EDPS/470)

Prereqs:

[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)/[859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent.

Introduction to the construction, evaluation, and ethical use of measurement instruments commonly used in education and psychology. Test construction principles, item analysis, reliability, validity, ethical issues in testing, and evaluation of standardized tests.

Credit Hours: 3

Course Delivery: Classroom

EDPS

496/896

Directed Field Experience

[LINK \(http://bulletin.unl.edu/courses/EDPS/496\)](http://bulletin.unl.edu/courses/EDPS/496)

Prereqs:

Permission.

Seminar on current issues or topics in educational psychology. Topics vary.

Credit Hours: 1-24

Course Delivery: Classroom

EDPS

498/898

Special Topics

[LINK \(http://bulletin.unl.edu/courses/EDPS/498\)](http://bulletin.unl.edu/courses/EDPS/498)

Prereqs:

Permission.

Credit Hours: 1-6

Max credits per semester: 6

Course Delivery: Classroom

EDPS

800

Foundations of Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/800\)](http://bulletin.unl.edu/courses/EDPS/800)

Prereqs:

[EDPS 459 \(http://bulletin.unl.edu/courses/EDPS/459\)](http://bulletin.unl.edu/courses/EDPS/459)/[859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859) or equivalent or parallel [EDPS 859 \(http://bulletin.unl.edu/courses/EDPS/859\)](http://bulletin.unl.edu/courses/EDPS/859)

Purposes and characteristics of research process, selection of research

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

problems in education and social sciences, critical review of published research, research ethics and institutional review, sampling methods, threats to validity in research.

EDPS

845

Computer-Assisted Research Data Analysis

[LINK \(http://bulletin.unl.edu/courses/EDPS/845\)](http://bulletin.unl.edu/courses/EDPS/845)

Prereqs:

One statistics course beyond [EDPS 859](http://bulletin.unl.edu/courses/EDPS/859) (<http://bulletin.unl.edu/courses/EDPS/859>)

Pass/No Pass only.

Statistical software packages for both mainframe and microcomputers. How to develop and manage data files; how to transfer data files between computers; and principles of data transformation and selection.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

846

Foundations of Health Behavior

Crosslisted as *NUTR 846*

[LINK \(http://bulletin.unl.edu/courses/EDPS/846\)](http://bulletin.unl.edu/courses/EDPS/846)

The epidemiological, developmental and cognitive foundation of health-related behaviors and identifies opportunities for health promotion and education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

847

Theoretical Models of Health Behavior Change

Crosslisted as *NUTR 847*

[LINK \(http://bulletin.unl.edu/courses/EDPS/847\)](http://bulletin.unl.edu/courses/EDPS/847)

Application of widely used theoretical models of health behavior change. Specification of behaviors and development and evaluation of theory-based interventions to reduce health-related risks.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

850

Child Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850)

This course is a prerequisite for: [EDPS 960](http://bulletin.unl.edu/courses/EDPS/960) (<http://bulletin.unl.edu/courses/EDPS/960>), [EDPS 961](http://bulletin.unl.edu/courses/EDPS/961) (<http://bulletin.unl.edu/courses/EDPS/961>), [EDPS 962](http://bulletin.unl.edu/courses/EDPS/962) (<http://bulletin.unl.edu/courses/EDPS/962>), [EDPS 963](http://bulletin.unl.edu/courses/EDPS/963) (<http://bulletin.unl.edu/courses/EDPS/963>)

Advanced study of the behavior and development of preschool and elementary school children.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

853

Psychological Assessment I

[LINK \(http://bulletin.unl.edu/courses/EDPS/853\)](http://bulletin.unl.edu/courses/EDPS/853)

Prereqs:

[EDPS 870](http://bulletin.unl.edu/courses/EDPS/870) (<http://bulletin.unl.edu/courses/EDPS/870>) or equivalent

This course is a prerequisite for: [EDPS 956](http://bulletin.unl.edu/courses/EDPS/956) (<http://bulletin.unl.edu/courses/EDPS/956>)

Basic assessment and testing skills including "behavioral observation", psychometric issues, intake/diagnostic interviewing, psychological testing, test interpretation feedback, and integrative report writing. Commonly used screening instruments, personality tests, career interest inventories, and symptom-based tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

Applications of Selected Advanced Statistics

[LINK \(http://bulletin.unl.edu/courses/EDPS/860\)](http://bulletin.unl.edu/courses/EDPS/860)

860**Prereqs:****EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>)

Variety of parametric and nonparametric analyses, including analysis of variance (completely randomized design and various factorial designs), regression analysis, analysis of covariance, full model stepwise multiple regression, chi square Mann–Whitney U, and Wilcoxon test. Understanding and application of these analyses. Appropriate mainframe and microcomputer statistical packages utilized to assist in the numerical analysis of data.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

866**Counseling Pre–Practicum**[LINK \(http://bulletin.unl.edu/courses/EDPS/866\)](http://bulletin.unl.edu/courses/EDPS/866)

Counseling skills required for basic, entry–level clinical work. Practicing skills, receiving peer/instructor performance feedback, and role–playing clinical situations.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

867**Roles and Functions in School Psychological Services**[LINK \(http://bulletin.unl.edu/courses/EDPS/867\)](http://bulletin.unl.edu/courses/EDPS/867)

Foundations, models, and practices of contemporary school psychology and an exploration of transitions and future developments in the profession. Investigations of the major legal and ethical systems affecting specialists in the schools and the application of standards for ethical professional practice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

868**Multicultural Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/868\)](http://bulletin.unl.edu/courses/EDPS/868)**Prereqs:****EDPS *866 or comparable course or permission**

Ethnic subcultures in the US, cross–cultural communication systems, and change strategies. Cultural cues and barriers in counseling, personal assumptions and values, and active experiencing of cultural diversity in the counseling relationship.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDPS/890\)](http://bulletin.unl.edu/courses/EDPS/890)

Refer to Workshop Seminars in Education under the “Education” section of this bulletin.

Credit Hours:	1–12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

893**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/EDPS/893\)](http://bulletin.unl.edu/courses/EDPS/893)

Refer to Workshop Seminars in Education under the “Education” section of this bulletin.

Credit Hours:	1–12
Max credits per degree:	12
Campus:	

EDPS

897J**Gifted/Talented**[LINK \(http://bulletin.unl.edu/courses/EDPS/897J\)](http://bulletin.unl.edu/courses/EDPS/897J)

Campus:

Course Delivery: Classroom

EDPS

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/EDPS/899\)](http://bulletin.unl.edu/courses/EDPS/899)**Prereqs:**

Admission to masters degree program and permission of major adviser

Credit Hours: 6-10

Campus:

Course Delivery: Classroom

EDPS

900A**Correlational and Experimental Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900A\)](http://bulletin.unl.edu/courses/EDPS/900A)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Integrated view of correlational and experimental research in education and social sciences. Builds on idea of relationships among variables and concept of casual relationships between variables. Possible research designs in light of these general principles.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

900B**Single Case/Small N Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900B\)](http://bulletin.unl.edu/courses/EDPS/900B)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

General issues related to the use of single case and/or small N methods, in which individuals are observed over time before and subsequent to experimental intervention. Comparison to traditional experimental methods. Repeated measurement techniques. Various research designs appropriate to single case methods.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

900D**Survey Methods in Educational Research**[LINK \(http://bulletin.unl.edu/courses/EDPS/900D\)](http://bulletin.unl.edu/courses/EDPS/900D)**Prereqs:**EDPS 459 (<http://bulletin.unl.edu/courses/EDPS/459/859>) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Principles and applications of survey research. Use of appropriate sampling techniques and applications of survey methods to the study of relative incidence, distribution, and interrelations of educational, sociological, and psychological variables.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

Historical Methods in Educational Research[LINK \(http://bulletin.unl.edu/courses/EDPS/900J\)](http://bulletin.unl.edu/courses/EDPS/900J)

Crosslisted as EDAD 900J

900J

Prereqs:
EDPS *800 or equivalent; [EDPS 459](http://bulletin.unl.edu/courses/EDPS/459)
(<http://bulletin.unl.edu/courses/EDPS/459>)/[859](http://bulletin.unl.edu/courses/EDPS/859)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Connections in the general study of history to the study of the history of education. Concepts employed in educational historical research and the methods used by historical researchers. The methodology of historical research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS **900K** Qualitative Approaches to Educational Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/900K\)](http://bulletin.unl.edu/courses/EDPS/900K)

Prereqs:
[EDPS 459](http://bulletin.unl.edu/courses/EDPS/459) (<http://bulletin.unl.edu/courses/EDPS/459>)/[859](http://bulletin.unl.edu/courses/EDPS/859)
(<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent; EDPS *800 or equivalent

Uses of qualitative research methods in education. The theoretical premises of research using qualitative methods and the application of this information through critique and planning research. Qualitative methods for data collection.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **905** Research and Evaluation Literature on Health Promotion

Crosslisted as *NUTR 905*

[LINK \(http://bulletin.unl.edu/courses/EDPS/905\)](http://bulletin.unl.edu/courses/EDPS/905)

Philosophical and empirical review and critique of contemporary literature on school, community, work place and health care-based health promotion and education programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **935** Seminar in Qualitative Research

Crosslisted as *TEAC 935*

[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)

Prereqs:
[EDUC 900K](http://bulletin.unl.edu/courses/EDUC/900K) (<http://bulletin.unl.edu/courses/EDUC/900K>) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS **936** Mixed Methods Research

[LINK \(http://bulletin.unl.edu/courses/EDPS/936\)](http://bulletin.unl.edu/courses/EDPS/936)

Prereqs:
[EDUC 800](http://bulletin.unl.edu/courses/EDUC/800) (<http://bulletin.unl.edu/courses/EDUC/800>) or equivalent, and [EDUC 900K](http://bulletin.unl.edu/courses/EDUC/900K) (<http://bulletin.unl.edu/courses/EDUC/900K>)

[EDPS 936](http://bulletin.unl.edu/courses/EDPS/936) (<http://bulletin.unl.edu/courses/EDPS/936>) is for students already familiar with quantitative and qualitative research. An introduction to mixed methods research as a distinct methodology in social science research. Topics include the value and use of this approach, philosophical assumptions, various types of design, and approaches to designing and conducting mixed methods research.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS Intermediate Statistics: Experimental Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/941\)](http://bulletin.unl.edu/courses/EDPS/941)

941Crosslisted as *SRAM 941***Prereqs:****EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>)

Computation, interpretation, and application of analysis of variance techniques, including factorial and mixed model designs. Computer and microcomputer software accessed.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

942**Intermediate Statistics: Correlational Methods**Crosslisted as *SRAM 942***LINK** (<http://bulletin.unl.edu/courses/EDPS/942>)**Prereqs:****EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Various correlational-based statistical procedures presented, including linear and nonlinear regression, multiple regression, statistical control, analysis of interactions, the general linear model, factor analysis, and discriminant analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

948**Multicultural Issues in School Psychological Service Delivery****LINK** (<http://bulletin.unl.edu/courses/EDPS/948>)

Current issues related to psycho-educational service delivery to children and families from different cultural and linguistic backgrounds. Integrating research and field experiences to provide students with skills to develop, implement, and deliver culturally sensitive and effective school psychological services.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

949**Cognitive and Behavioral Therapy with Children and Adolescents****LINK** (<http://bulletin.unl.edu/courses/EDPS/949>)**Prereqs:****Permission**This course is a prerequisite for: **EDPS 955** (<http://bulletin.unl.edu/courses/EDPS/955>)

Cognitive and behavioral techniques. Theoretical issues, application and evaluation of major empirically-validated therapeutic treatments that represent best practices in child and adolescent therapy.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

950**Intellectual Assessment****LINK** (<http://bulletin.unl.edu/courses/EDPS/950>)**Prereqs:****or coreq: EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>), **870** (<http://bulletin.unl.edu/courses/EDPS/870>), and permissionThis course is a prerequisite for: **EDPS 951** (<http://bulletin.unl.edu/courses/EDPS/951>)

Formal evaluative methods for the investigation of children's learning difficulties, including supervised practicum in administration, scoring, and interpretation of individually administered tests of cognitive abilities.

Credit Hours:	1-4
Campus:	
Course Delivery:	Classroom

EDPS

951**Academic and Behavioral Assessment****LINK** (<http://bulletin.unl.edu/courses/EDPS/951>)**Prereqs:**

Credit Hours:	1-4
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EDPS 950 (<http://bulletin.unl.edu/courses/EDPS/950>) and permission

This course is a prerequisite for: [EDPS 954 \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Advanced study of the theory and practice in the assessment of educational and psychological problems of children and youth to include assessment of systems that impact on the behavior of children and youth. Assessment techniques include environmental observation, interviewing, standardized assessment procedures for academic skills, adaptive behavior, social and emotional problems, curriculum based assessment, and functional analysis and assessment. Ecological-behavioral basis of assessment is explored. A complete psychological and educational evaluation is conducted in a school or other relevant setting.

Campus:

Course Delivery: Classroom

EDPS

952

Systems of Consultation in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/952\)](http://bulletin.unl.edu/courses/EDPS/952)

Prereqs:

[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863)

Intensive analysis of the theory and practice of various systems of mental health consultation in the schools with special emphasis and practicum with mental health service models other than conventional clinical, psychometric, and direct psychoeducational remediation models.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

953

Psychological Assessment II

[LINK \(http://bulletin.unl.edu/courses/EDPS/953\)](http://bulletin.unl.edu/courses/EDPS/953)

Prereqs:

[EDPS *853 or equivalent](#)

This course is a prerequisite for: [EDPS 956 \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Advanced assessment and testing skills. Selection, administration and interpretation of a battery of psychological tests and integration and synthesis of relevant test and non-test data into an accessible report writing format. Development of effective consultation and test interpretation feedback skills.

Credit Hours: 4

Campus:

Course Delivery: Classroom

EDPS

954

Interventions in School Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/954\)](http://bulletin.unl.edu/courses/EDPS/954)

Prereqs:

[EDPS 463 \(http://bulletin.unl.edu/courses/EDPS/463\)](http://bulletin.unl.edu/courses/EDPS/463)/[863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863), [EDPS 951 \(http://bulletin.unl.edu/courses/EDPS/951\)](http://bulletin.unl.edu/courses/EDPS/951) or parallel; and permission

Prepares school psychologists to plan and provide evidence-based psychoeducational interventions for children, youth, families and schools. Application of ecobehavioral theory, models of school mental health, the scientist-practitioner model, the practice of psychotherapy, and empirical evidence of the effectiveness of interventions for culturally and linguistically diverse students.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

EDPS

955

Child Therapy

[LINK \(http://bulletin.unl.edu/courses/EDPS/955\)](http://bulletin.unl.edu/courses/EDPS/955)

Prereqs:

[EDPS 949 \(http://bulletin.unl.edu/courses/EDPS/949\)](http://bulletin.unl.edu/courses/EDPS/949)

Advanced practicum course that facilitates students' scholarly acquisition of principles and concepts relevant to conducting therapy, and provides opportunities for practical integration of knowledge and skills essential to conducting individual, group, and family psychotherapy. Students acquire

Credit Hours: 4

Max credits per degree: 12

Campus:

Course Delivery: Classroom

competencies in developing, implementing and evaluating interventions by conducting therapy sessions, observing sessions, exchanging feedback with peers, and receiving supervision.

EDPS

956

Projective Psychological Assessment

[LINK \(http://bulletin.unl.edu/courses/EDPS/956\)](http://bulletin.unl.edu/courses/EDPS/956)

Prereqs:

[EDPS 853 \(http://bulletin.unl.edu/courses/EDPS/853\)](http://bulletin.unl.edu/courses/EDPS/853), and [EDPS 953 \(http://bulletin.unl.edu/courses/EDPS/953\)](http://bulletin.unl.edu/courses/EDPS/953). Permission may be granted by Instructor to take Psychological Assessment II after Projective Psychological Assessment.

The primary goal of this course is to assist doctoral students in developing their ability to utilize projective assessment techniques to integrate information from a variety of sources about a person (an adult or older adolescent) into an integrated, useful psychological report. The broad array of data will include not only the results of formal tests (e.g., the Rorschach), but also personal and family history, and behavioral observations.

Credit Hours:	4
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

958B

Practicum in School Psychology Consultation Techniques

[LINK \(http://bulletin.unl.edu/courses/EDPS/958B\)](http://bulletin.unl.edu/courses/EDPS/958B)

Prereqs:

[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863), [952 \(http://bulletin.unl.edu/courses/EDPS/952\)](http://bulletin.unl.edu/courses/EDPS/952), [997D \(http://bulletin.unl.edu/courses/EDPS/997D\)](http://bulletin.unl.edu/courses/EDPS/997D) or equivalent, and permission

Practicum experience in ecological/behavioral, mental health, and organizational consultation techniques within a school or related setting. Supplemented by individual and small group supervisory/feedback sessions each week.

Credit Hours:	1-4
Max credits per degree:	8
Campus:	
Course Delivery:	Classroom

EDPS

960

Problem Solving and Concept Learning in Humans

[LINK \(http://bulletin.unl.edu/courses/EDPS/960\)](http://bulletin.unl.edu/courses/EDPS/960)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and [854 \(http://bulletin.unl.edu/courses/EDPS/854\)](http://bulletin.unl.edu/courses/EDPS/854)

Critical examination of the non-Piagetean research literature and theory which examines higher mental processes in humans through the lifespan.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

961

Cognitive Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/961\)](http://bulletin.unl.edu/courses/EDPS/961)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851 \(http://bulletin.unl.edu/courses/EDPS/851\)](http://bulletin.unl.edu/courses/EDPS/851) and permission

Critical examination of theories and research on cognitive development throughout the lifespan, including Piagetean and alternative perspectives.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

962

Research Literature in Personality and Social Development

[LINK \(http://bulletin.unl.edu/courses/EDPS/962\)](http://bulletin.unl.edu/courses/EDPS/962)

Prereqs:

[EDPS 850 \(http://bulletin.unl.edu/courses/EDPS/850\)](http://bulletin.unl.edu/courses/EDPS/850) or [851](http://bulletin.unl.edu/courses/EDPS/851)

Credit Hours:	3
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<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Critical examination of the concepts and principles derived from the study of personality and social development with special emphasis on the research literature.

Campus:

Course Delivery: Classroom

EDPS

963

Developmental Psychobiology

[LINK \(http://bulletin.unl.edu/courses/EDPS/963\)](http://bulletin.unl.edu/courses/EDPS/963)

Prereqs:

EDPS 850 (<http://bulletin.unl.edu/courses/EDPS/850>) or 851 (<http://bulletin.unl.edu/courses/EDPS/851>) and permission

Biological foundations of human psychological development, including anatomical, physiological, and evolutionary considerations.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

964

Counseling Theories and Intervention Techniques

[LINK \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964)

Prereqs:

EDPS *866

Parallel: EDPS 997A (<http://bulletin.unl.edu/courses/EDPS/997A>) and permission of counseling area. Overview of theoretical approaches to counseling. Close examination of selected theories and intervention procedures.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

965A

Group Counseling: Social Psychological Aspects

[LINK \(http://bulletin.unl.edu/courses/EDPS/965A\)](http://bulletin.unl.edu/courses/EDPS/965A)

Prereqs:

EDPS *866

Parallel: EDPS 964 (<http://bulletin.unl.edu/courses/EDPS/964>) and 997A (<http://bulletin.unl.edu/courses/EDPS/997A>). Develops student competencies in analyzing organizational contexts, designing group counseling experiences, and evaluating group experiences.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

966

Psychology of Learning

[LINK \(http://bulletin.unl.edu/courses/EDPS/966\)](http://bulletin.unl.edu/courses/EDPS/966)

Prereqs:

EDPS 854 (<http://bulletin.unl.edu/courses/EDPS/854>) and 870 (<http://bulletin.unl.edu/courses/EDPS/870>)

Theories of learning and experimental investigation in the field of animal and human behavior and their application to the classroom.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS

967

Psychology of Motivation in Education

[LINK \(http://bulletin.unl.edu/courses/EDPS/967\)](http://bulletin.unl.edu/courses/EDPS/967)

Prereqs:

Graduate standing

EDPS 854 (<http://bulletin.unl.edu/courses/EDPS/854>)

Psychology of Motivation focuses on understanding and impacting students' motivation to learn. Theories discussed in this class are applicable to a wide array of achievement settings (e.g., math, science, writing, health education) as well as more general motivational concerns (e.g., studying, addiction, video games). Content covered includes drive theory, behaviorism as

Credit Hours: 3

Course Delivery: Classroom

motivation, achievement motivation, goal theory, self-determination theory, social cognitive theory, and ecological theories of motivation.

EDPS

968

Gender and Counseling Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/968\)](http://bulletin.unl.edu/courses/EDPS/968)

Prereqs:
Admitted as a graduate student in the Counseling Psychology program.

The major purpose of this course is for students to learn about gender issues within the field of counseling psychology from a multicultural and feminist perspective and to gain the essential knowledge and techniques in working with gender issues in diverse settings.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

EDPS

969

Nonparametric Statistical Methods

[LINK \(http://bulletin.unl.edu/courses/EDPS/969\)](http://bulletin.unl.edu/courses/EDPS/969)

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Presentation of statistical procedures that do not require fundamental assumptions about the distribution property of the variables to be analyzed. Chi Square tests, rank tests of location (Wilcoxon, Mann Whitney, Kruskal-Wallis, Friedman), tests of goodness of fit (Chi Square, Kolmogorov-Smirnoff), tests of randomness (Runs).

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

97

College Major Forum

[LINK \(http://bulletin.unl.edu/courses/EDPS/97\)](http://bulletin.unl.edu/courses/EDPS/97)

This course is a prerequisite for: EDPS 973B (<http://bulletin.unl.edu/courses/EDPS/973B>), EDPS 978 (<http://bulletin.unl.edu/courses/EDPS/978>)

EDPS 97 (<http://bulletin.unl.edu/courses/EDPS/97>) is Pass/No Pass only.

This is an eight week seminar course for first semester students in the General Studies Learning Community. Students will complete activities to identify interests, research majors that match their interests and complete a "Guided Professional Shadowing" experience to gain first-hand knowledge about a career of their choice.

Credit Hours:	0
Course Format:	Lecture
Course Delivery:	Classroom

EDPS

970

Theory and Methods of Educational Measurement

[LINK \(http://bulletin.unl.edu/courses/EDPS/970\)](http://bulletin.unl.edu/courses/EDPS/970)

Crosslisted as SRAM 970

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) and 870 (<http://bulletin.unl.edu/courses/EDPS/870>); EDPS/SRAM 941 (<http://bulletin.unl.edu/courses/SRAM/941>); or equivalent

Presentation of various measurement theories and concepts, including classical true-score theory, reliability and validity, test construction, item response theory, test equating, test bias, and criterion-referenced tests.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

971

Structural Equation Modeling

[LINK \(http://bulletin.unl.edu/courses/EDPS/971\)](http://bulletin.unl.edu/courses/EDPS/971)

Crosslisted as SRAM 971

Prereqs:
EDPS/SRAM 942 (<http://bulletin.unl.edu/courses/SRAM/942>) and 970 (<http://bulletin.unl.edu/courses/SRAM/970>); or equivalent

Introduction to the techniques of path analysis, confirmatory factor analysis,

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

and structural equation modeling with emphasis on the set-up and interpretation of different models using the LISREL program. Model testing and evaluation, goodness-of-fit indices, violations of assumptions, specification searches, and power analyses.

EDPS

972

Multivariate Analysis

Crosslisted as *SRAM 972*

[LINK \(http://bulletin.unl.edu/courses/EDPS/972\)](http://bulletin.unl.edu/courses/EDPS/972)

Prereqs:

[EDPS/SRAM 941 \(http://bulletin.unl.edu/courses/SRAM/941\)](http://bulletin.unl.edu/courses/SRAM/941) and [942 \(http://bulletin.unl.edu/courses/SRAM/942\)](http://bulletin.unl.edu/courses/SRAM/942)

Techniques of multivariate analyses, including multivariate analysis of variance and covariance, multivariate multiple regression, multigroup discriminant analysis, canonical analysis, repeated measures (Multivariate model), and time series. Mathematical models presented and analyzed. Instruction complemented by appropriate statistical software packages.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

973A

Evaluation Theory and Practice

[LINK \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A)

This course is a prerequisite for: [EDPS 973B \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Theories and strategies of evaluation examined within the context of society at large and educational and human service programs in particular. Key evaluation models examined as they relate to judgments and decisions about programs. Methodological, social, and political issues in evaluation which pertain equally to an educational program or a human service agency.

Credit Hours:	2-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDPS

973B

Evaluation Practicum

[LINK \(http://bulletin.unl.edu/courses/EDPS/973B\)](http://bulletin.unl.edu/courses/EDPS/973B)

Prereqs:

[EDPS 973A \(http://bulletin.unl.edu/courses/EDPS/973A\)](http://bulletin.unl.edu/courses/EDPS/973A) or permission

Actual supervised evaluation of a program or project.

Credit Hours:	2-3
Campus:	
Course Delivery:	Classroom

EDPS

974

Guidance and Counseling in Schools

[LINK \(http://bulletin.unl.edu/courses/EDPS/974\)](http://bulletin.unl.edu/courses/EDPS/974)

Survey of elementary, middle and secondary school comprehensive models of guidance. Ingredients of effective helping relationships with students in schools. Analysis of school violence, risk assessment models, multicultural influences, prevention models, and guidance roles of teachers/administrators.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

975

Occupations and Vocational Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/975\)](http://bulletin.unl.edu/courses/EDPS/975)

Evaluation and uses of occupational and educational information; job analysis; psychological and behavioral attributes relating to work and life-styles; occupational taxonomies; career-development theories; impact of accelerating changes on personal and social planning; investigations of value-oriented expectations as sources of work satisfaction and dissatisfaction; critical assessment of the concept of vocational choice. For counselors and educators.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

976**Advanced Counseling Psychology I: Counseling Theory and Practice** (<http://bulletin.unl.edu/courses/EDPS/976>)**Prereqs:****Doctoral level counseling students and others by permission**This course is a prerequisite for: [EDPS 978 \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)

Counseling methodology in relationship to personality theory and research. Consideration of various theories and research in relation to counseling practice.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

977**Seminar in College Student Development**Crosslisted as *EDAD 980*[LINK \(http://bulletin.unl.edu/courses/EDPS/977\)](http://bulletin.unl.edu/courses/EDPS/977)

Special field experiences and research projects are available to students for additional credit.

Current knowledge, theories, and practices, and related issues in the area of college student development.

Credit Hours:	2-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

EDPS

978**Advanced Counseling Psychology II: Research in Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/978\)](http://bulletin.unl.edu/courses/EDPS/978)**Prereqs:**

EDPS 976 (<http://bulletin.unl.edu/courses/EDPS/976>); **EDUC 900A** (<http://bulletin.unl.edu/courses/EDUC/900A>) and either **EDUC 900B** (<http://bulletin.unl.edu/courses/EDUC/900B>) or **900K** (<http://bulletin.unl.edu/courses/EDUC/900K>)

Research strategies appropriate for counseling psychology. Identification of researchable problem and completion of research proposal including literature review, design, and proposed data analysis procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

980**Item Response Theory**[LINK \(http://bulletin.unl.edu/courses/EDPS/980\)](http://bulletin.unl.edu/courses/EDPS/980)**Prereqs:**

EDPS 870 (<http://bulletin.unl.edu/courses/EDPS/870>) and **970** (<http://bulletin.unl.edu/courses/EDPS/970>); or permission

Principles of item response theory (IRT) and its application to a variety of issues in educational and psychological measurement. Theoretical foundations of IRT discussed along with its assumptions and varied applications. Experience using IRT calibration and scoring computer software.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

981**School Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/981\)](http://bulletin.unl.edu/courses/EDPS/981)**Prereqs:****by permission of course instructor**

Supervised practice in local school districts related to academic, social, behavioral and emotional disorders of children and adolescents.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	8
Course Format:	Field, Lab, Lecture
Campus:	
Course Delivery:	Classroom

EDPS

982**Clinical Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/982\)](http://bulletin.unl.edu/courses/EDPS/982)**Prereqs:**
by permission of course instructor

Supervised clinical practice related to academic, social, behavioral and emotional disorders of children and adolescents. Parent and family treatment and behavior interventions emphasized.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	16
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

983**Community Practice in School Psychology**[LINK \(http://bulletin.unl.edu/courses/EDPS/983\)](http://bulletin.unl.edu/courses/EDPS/983)**Prereqs:**
Doctoral standing in professional psychology program and permission

Supervised clinical experience working with children, adolescents and families in a variety of school and community settings.

Credit Hours:	2-4
Max credits per semester:	4
Max credits per degree:	16
Course Format:	Field, Lab, Lecture
Course Delivery:	Classroom

EDPS

984**Ethics and Ethical Decision Making in Counseling and Education**[LINK \(http://bulletin.unl.edu/courses/EDPS/984\)](http://bulletin.unl.edu/courses/EDPS/984)

Ethical principles in the practice of counseling. Application of ethical guidelines and development of ethical decision-making models relevant to school and mental health contents.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

985**Couple and Family Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/985\)](http://bulletin.unl.edu/courses/EDPS/985)**Prereqs:**
EDPS *866 or equivalent

Couple and family systems and change strategies. Active, brief forms of couple and family counseling and enrichment formats.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

987**Developmental Perspectives on Gender and Sexuality in Counseling**[LINK \(http://bulletin.unl.edu/courses/EDPS/987\)](http://bulletin.unl.edu/courses/EDPS/987)

Issues related to gender and sexuality in the process of counseling and psychotherapy. Developmental issues related to gender differences, gender bias, gender identity, gender discrimination, and gender-based disorders. Feminist and affirmative therapy techniques.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

EDPS

989**Psychology of Reading**Crosslisted as *TEAC 989*[LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)**Prereqs:**
TEAC *811 or 841 or SPED 886
(<http://bulletin.unl.edu/courses/SPED/886>)

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

EDPS

990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/990\)](http://bulletin.unl.edu/courses/EDPS/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDPS

991

Seminar in Educational Psychology and Measurements

[LINK \(http://bulletin.unl.edu/courses/EDPS/991\)](http://bulletin.unl.edu/courses/EDPS/991)

Prereqs:
Permission

Credit Hours:	1-12
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

EDPS

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/993\)](http://bulletin.unl.edu/courses/EDPS/993)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

EDPS

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/EDPS/995\)](http://bulletin.unl.edu/courses/EDPS/995)

Prereqs:
Permission

EDPS 995 (http://bulletin.unl.edu/courses/EDPS/995) is intended primarily for EDPS doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor.

Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3-4
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

EDPS

996A

Research Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/EDPS/996A\)](http://bulletin.unl.edu/courses/EDPS/996A)

Independent operational research under faculty supervision.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

EDPS

996B

Readings in Educational Psychology

[LINK \(http://bulletin.unl.edu/courses/EDPS/996B\)](http://bulletin.unl.edu/courses/EDPS/996B)

Prereqs:
Permission

Readings on selected problems in educational psychology.

Credit Hours:	1-12
Max credits per degree:	12
Campus:	

Course Delivery: Classroom

EDPS
997A

Practicum in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Prereqs:
Masters admission in educational psychology or permission of counseling area, EDPS *866

This course is a prerequisite for: [EDPS 997B \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B),
[EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Parallel: [EDPS 964 \(http://bulletin.unl.edu/courses/EDPS/964\)](http://bulletin.unl.edu/courses/EDPS/964). Supervised laboratory clinic-based experiences in counseling.

Credit Hours: 2-4

Campus:

Course Delivery: Classroom

EDPS
997B

Field Placement in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997B\)](http://bulletin.unl.edu/courses/EDPS/997B)

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A)

Supervised field experiences in school counseling, college student personnel, and community social service agencies.

Credit Hours: 2-4

Campus:

Course Delivery: Classroom

EDPS
997D

Practicum in Behavior Management Technologies

[LINK \(http://bulletin.unl.edu/courses/EDPS/997D\)](http://bulletin.unl.edu/courses/EDPS/997D)

Prereqs:
[EDPS 863 \(http://bulletin.unl.edu/courses/EDPS/863\)](http://bulletin.unl.edu/courses/EDPS/863) and permission

Supervised practicum in the design, implementation, evaluation, and reporting of various behavior modification technologies for individuals and groups; social systems engineering.

Credit Hours: 3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDPS
997E

Practicum in Counselor Supervision and Consultation

[LINK \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Prereqs:
[EDPS 997G \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G) or equivalent

Supervised counseling supervision and consultation experience emphasizing process methods and evaluation.

Credit Hours: 2

Campus:

Course Delivery: Classroom

EDPS
997G

Advanced Practicum in Counseling

[LINK \(http://bulletin.unl.edu/courses/EDPS/997G\)](http://bulletin.unl.edu/courses/EDPS/997G)

Prereqs:
[EDPS 997A \(http://bulletin.unl.edu/courses/EDPS/997A\)](http://bulletin.unl.edu/courses/EDPS/997A) and permission

This course is a prerequisite for: [EDPS 997E \(http://bulletin.unl.edu/courses/EDPS/997E\)](http://bulletin.unl.edu/courses/EDPS/997E)

Supervised counseling experience in university, schools, and community agencies.

Credit Hours: 2-4

Campus:

Course Delivery: Classroom

EDPS
997J

Advanced Practicum in Gifted Education

[LINK \(http://bulletin.unl.edu/courses/EDPS/997J\)](http://bulletin.unl.edu/courses/EDPS/997J)

Crosslisted as *SPED 997J*

Prereqs:
Permission

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDPS
997K **Supervision in School Psychology**

[LINK \(http://bulletin.unl.edu/courses/EDPS/997K\)](http://bulletin.unl.edu/courses/EDPS/997K)

Prereqs:
Doctoral standing in professional psychology program and permission.

Supervised experience in supervising graduate students in practicum settings. Refinement of consultation, assessment, diagnosis, and treatment skills.

Credit Hours: 3-4

Max credits per semester: 8

Max credits per degree: 8

Course Format: Field, Lab, Lecture

Course Delivery: Classroom

EDPS
999 **Doctoral Dissertation**

[LINK \(http://bulletin.unl.edu/courses/EDPS/999\)](http://bulletin.unl.edu/courses/EDPS/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours: 1-24

Max credits per degree: 55

Campus:

Course Delivery: Classroom

PSYC
471/871 **Human Sexuality and Society**

[LINK \(http://bulletin.unl.edu/courses/PSYC/471\)](http://bulletin.unl.edu/courses/PSYC/471)

Crosslisted as *SOCI 471/871, EDPS 471/871, CYAF 471/871*

Prereqs:
Junior standing and 12 hrs in one of the departments in which the course is listed.

Open to advanced students planning careers in the professions in which knowledge of human behavior and society is important (e.g., helping professions, medicine, law, ministry, education, etc.).

Interdisciplinary approach to the study of human sexuality in terms of the psychological, social, cultural, anthropological, legal, historical, and physical characteristics of individual sexuality and sex in society.

Credit Hours: 3

Course Delivery: Classroom

SPED
892 **Special Topics in Education**

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

Prereqs:
EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours: 1-3

Max credits per degree: 12

Course Format: Lecture

Campus:

Course Delivery: Classroom

TEAC
930 **Sociological/Anthropological Research Methods in Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Crosslisted as *EDPS 930, CYAF 930, NUTR 930*

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community

Credit Hours: 1-3

Max credits per degree: 15

settings.

- A. Ethnographic Methods (1–3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1–3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1–3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1–3 cr, max 3)
- J. Hermeneutic Traditions in Education (1–3 cr, max 3)
- K. Quantitative Research Traditions in Education (1–3 cr, max 3)

Campus:	
Course Delivery:	Classroom

Courses for SPED (SPED)

EDAD 855	Teaching Learners to Learn Crosslisted as <i>EDPS 855, NUTR 855, SPED 855, TEAC 855</i>	LINK (http://bulletin.unl.edu/courses/EDAD/855)
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Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 856	Supervising Special Education Crosslisted as <i>SPED 856</i>	LINK (http://bulletin.unl.edu/courses/EDAD/856)
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For principals or other administrators who have special education programs in their buildings. Overview of disabilities, related law, special education programs, personnel issues, etc., and instructional methods and administrative support for effective integration of disabled students into regular programs.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 857	Special Education Administration Crosslisted as <i>SPED 857</i>	LINK (http://bulletin.unl.edu/courses/EDAD/857)
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Intensive preparation for special educators who intend to administer special education programs in the public schools. Information about best practices in special education, including programming, supervision, legal/regulatory issues, financing, personnel, as well as current controversial topics which are affecting these programs in the schools.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDAD 858	Special Education Law Crosslisted as <i>SPED 858</i>	LINK (http://bulletin.unl.edu/courses/EDAD/858)
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Body of law that pertains to the organization, administration, and implementation of special education programs in PreK–12 schools. Substantive and procedural rights of disabled students, and the authority and responsibility of states and school districts that are grounded in state and federal law.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS 997J	Advanced Practicum in Gifted Education Crosslisted as <i>SPED 997J</i>	LINK (http://bulletin.unl.edu/courses/EDPS/997J)
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Prereqs:
Permission

Credit Hours:	3
Campus:	

Advanced practicum in the education of the gifted/talented child. Psychodiagnostic procedures; theory and research; and program organization, operation, and evaluation in a field setting.

Course Delivery: Classroom

SLPA
884

Speech and Language Development of the Hearing Impaired

LINK (<http://bulletin.unl.edu/courses/SLPA/884>)

Crosslisted as *SPED 884*

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SLPA
956

Language Study of Teachers of Deaf and Hard of Hearing (DHH)

LINK (<http://bulletin.unl.edu/courses/SLPA/956>)

Crosslisted as *SPED 956*

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SPED
400/800

Characteristics of Exceptional Persons

LINK (<http://bulletin.unl.edu/courses/SPED/400>)

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>), [SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>), [SPED 809](http://bulletin.unl.edu/courses/SPED/809) (<http://bulletin.unl.edu/courses/SPED/809>), [SPED 843](http://bulletin.unl.edu/courses/SPED/843) (<http://bulletin.unl.edu/courses/SPED/843>)

Etiology, growth and development, and characteristics of children and youth who deviate from the norm.

Credit Hours: 3

Course Delivery: Classroom

SPED
401A/801A

Accommodating Exceptional Learners in the Elementary School Classroom

LINK (<http://bulletin.unl.edu/courses/SPED/401A>)

Prereqs:
Admission to the Teacher Education Program; EDPS 362 (<http://bulletin.unl.edu/courses/EDPS/362>); **TEAC 195** (<http://bulletin.unl.edu/courses/TEAC/195>); **one methods course; or permission.**

Legal and ethical requirements for educating exceptional learners; identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the elementary school.

Credit Hours: 3

Course Delivery: Classroom

SPED
401B/801B

Accommodating Exceptional Learners in the Secondary School Classroom

LINK (<http://bulletin.unl.edu/courses/SPED/401B>)

Prereqs:
Admission to the Teacher Education Program; EDPS 362 (<http://bulletin.unl.edu/courses/EDPS/362>); **TEAC 195** (<http://bulletin.unl.edu/courses/TEAC/195>); **one methods course; or permission.**

Legal and ethical requirements for educating exceptional learners;

Credit Hours: 3

Course Delivery: Classroom

identification, referral, and placement procedures; development and use of the Individual Education Program; strategies for teaching and evaluating; managing the academic and social behaviors of a range of exceptional and other at-risk learners in the secondary school.

SPED

Code-based Reading Instruction

[LINK \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

405/805

Prereqs:

Parallel [SPED 405A \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A)/[805A \(http://bulletin.unl.edu/courses/SPED/805A\)](http://bulletin.unl.edu/courses/SPED/805A).

This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

Direct, systematic, multi-sensory techniques for teaching reading, writing and spelling to students who have severe reading problems.

Credit Hours:	1-3
Max credits per semester:	6
Course Format:	Lecture
Course Delivery:	Classroom

SPED

Reading Center Practicum I

[LINK \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A)

405A/805A

Prereqs:

Permission.

This course is a prerequisite for: [SPED 405 \(http://bulletin.unl.edu/courses/SPED/405\)](http://bulletin.unl.edu/courses/SPED/405)

[SPED 405A \(http://bulletin.unl.edu/courses/SPED/405A\)](http://bulletin.unl.edu/courses/SPED/405A)/[805A \(http://bulletin.unl.edu/courses/SPED/805A\)](http://bulletin.unl.edu/courses/SPED/805A) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, lesson planning and teaching using direct instruction, code-based instructional strategies.

Credit Hours:	1-3
Max credits per semester:	3
Course Format:	Field
Course Delivery:	Classroom

SPED

Reading and Writing Disabilities: Adolescents

[LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

406/806

Crosslisted as *TEAC 806*

Prereqs:

[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)/[800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800), [SPED 412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412)/[812 \(http://bulletin.unl.edu/courses/SPED/812\)](http://bulletin.unl.edu/courses/SPED/812), and [TEAC 441 \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Parallel [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)/[806A \(http://bulletin.unl.edu/courses/SPED/806A\)](http://bulletin.unl.edu/courses/SPED/806A).

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED

Reading Center Practicum II

[LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

406A/806A

Crosslisted as *TEAC 806A*

Prereqs:

[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)/[800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800), [412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412)/[812 \(http://bulletin.unl.edu/courses/SPED/812\)](http://bulletin.unl.edu/courses/SPED/812), and [TEAC 441 \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Taken parallel with [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)/[806 \(http://bulletin.unl.edu/courses/SPED/806\)](http://bulletin.unl.edu/courses/SPED/806).

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

[SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)/[806A \(http://bulletin.unl.edu/courses/SPED/806A\)](http://bulletin.unl.edu/courses/SPED/806A) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

SPED
407/807

Teaching Students with Disabilities in the Secondary School

[LINK \(http://bulletin.unl.edu/courses/SPED/407\)](http://bulletin.unl.edu/courses/SPED/407)

Prereqs:
[SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) or [400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400)/[800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800).

Credit Hours:	3
Course Delivery:	Classroom

This course is a prerequisite for: [SPED 408 \(http://bulletin.unl.edu/courses/SPED/408\)](http://bulletin.unl.edu/courses/SPED/408)

Information about the mildly/moderately disabled secondary-level student; including characteristics, assessment, models for programs, social skill training, behavior management, working with parents, and curriculum modification.

SPED
408/808

Issues in Secondary Programs for Students with Mild Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/408\)](http://bulletin.unl.edu/courses/SPED/408)

Prereqs:
Special Education Professional Semester and [SPED 407 \(http://bulletin.unl.edu/courses/SPED/407\)](http://bulletin.unl.edu/courses/SPED/407).

Credit Hours:	3
Course Delivery:	Classroom

Issues in secondary education for students with mild disabilities based on current literature and needs of individual students.

SPED
412/812

Assessment Techniques for Diverse Learners

[LINK \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412)

Prereqs:
Sophomore standing; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) and [303 \(http://bulletin.unl.edu/courses/SPED/303\)](http://bulletin.unl.edu/courses/SPED/303).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406),
[SPED 415 \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

The role of general education teachers in the primary purposes of assessment of learners with diverse needs. Knowledge and experience with interpreting norm-referenced test information as related to planning educational programs. Use of assessment information for instructional planning and evaluation. Testing accommodations and classroom grading.

SPED
414/814

Instructional Methods for Students with Diverse Needs

[LINK \(http://bulletin.unl.edu/courses/SPED/414\)](http://bulletin.unl.edu/courses/SPED/414)

Prereqs:
Sophomore standing; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201) and [303 \(http://bulletin.unl.edu/courses/SPED/303\)](http://bulletin.unl.edu/courses/SPED/303).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

This course is a prerequisite for: [SPED 415 \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

Instructional methods and accommodations for special education and general education teachers necessary to work successfully with students with disabilities or who are at-risk for academic failure. Curriculum modification, classroom management, strategy instruction, and instructional modifications for content areas.

SPED

415/815

Reading and Writing Disabilities: Elementary Students

[LINK \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

Prereqs:

[SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201), [TEAC 311 \(http://bulletin.unl.edu/courses/TEAC/311\)](http://bulletin.unl.edu/courses/TEAC/311), [TEAC 313 \(http://bulletin.unl.edu/courses/TEAC/313\)](http://bulletin.unl.edu/courses/TEAC/313) for elementary education majors; [SPED 201 \(http://bulletin.unl.edu/courses/SPED/201\)](http://bulletin.unl.edu/courses/SPED/201), [SPED 412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412), and [SPED 414 \(http://bulletin.unl.edu/courses/SPED/414\)](http://bulletin.unl.edu/courses/SPED/414) (or equivalent) for SPED majors. **Must be taken with: [SPED 415A \(http://bulletin.unl.edu/courses/SPED/415A\)](http://bulletin.unl.edu/courses/SPED/415A) or [815A \(http://bulletin.unl.edu/courses/SPED/815A\)](http://bulletin.unl.edu/courses/SPED/815A).**

This course is a prerequisite for: [SPED 415 \(http://bulletin.unl.edu/courses/SPED/415\)](http://bulletin.unl.edu/courses/SPED/415)

Theory and techniques for assessing and teaching early literacy skills in small groups and one-on-one for children who struggle with literacy.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED

436/836

Career Education for the Special Needs Student

[LINK \(http://bulletin.unl.edu/courses/SPED/436\)](http://bulletin.unl.edu/courses/SPED/436)

Prereqs:

[SPED 434 \(http://bulletin.unl.edu/courses/SPED/434\)](http://bulletin.unl.edu/courses/SPED/434) or [834 \(http://bulletin.unl.edu/courses/SPED/834\)](http://bulletin.unl.edu/courses/SPED/834) or permission.

Philosophical and practical base of career education as it relates to special needs students. Career education units developed for infusion into subject areas.

Credit Hours:	3
Course Delivery:	Classroom

SPED

463/863

Medically Fragile infants

[LINK \(http://bulletin.unl.edu/courses/SPED/463\)](http://bulletin.unl.edu/courses/SPED/463)

Prereqs:

Major in Special Education, Speech-language Pathology or Child Youth and Family Studies. Senior status or permission of instructor.

Unique needs, family-coping strategies, specialized medical staff and various health care settings for chronically ill infants, toddlers and preschool age children. Overview of etiology, characteristics and developmental implications of selected medical conditions related to developmental disabilities.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Web

SPED

472/872

Psychology and Sociology of Deafness

[LINK \(http://bulletin.unl.edu/courses/SPED/472\)](http://bulletin.unl.edu/courses/SPED/472)

Education of the hearing impaired including history of, professional roles in, and educational programming within this field. Social/psychological theories as related to the hearing impaired. Patterns of social/emotional development, psychological characteristics, issues of family stress and social adaptation and discussion of counseling techniques.

Credit Hours:	3
Course Delivery:	Classroom

SPED

Educating Students with Intellectual Impairments & Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/480\)](http://bulletin.unl.edu/courses/SPED/480)

480/880

This course is a prerequisite for: [SPED 881 \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)

Concepts related to history, definitions, identification, etiology, and assessment of students with intellectual impairments and developmental disabilities. Examine attitudes, assumptions, and stereotypes concerning persons with intellectual impairments and other developmental disabilities. Instructional methods, adaptations and teaming to provide individualized interventions and include students in least restrictive environments/general education settings. Applied assignments will be conducted in field experience and student teaching.

Credit Hours:	3
Course Delivery:	Classroom, Web

SPED **Independent Study in Special Education**

495/895

[LINK \(http://bulletin.unl.edu/courses/SPED/495\)](http://bulletin.unl.edu/courses/SPED/495)

Prereqs:
Prior arrangements with faculty member and permission.

Special research or reading project under direction of a staff member in the department.

Credit Hours:	1-3
Course Delivery:	Classroom

SPED **Directed Field Experience**

496/896

[LINK \(http://bulletin.unl.edu/courses/SPED/496\)](http://bulletin.unl.edu/courses/SPED/496)

Prereqs:
Permission.

Pass/No Pass only for SPED 496 (http://bulletin.unl.edu/courses/SPED/496) section. SPED 896 (http://bulletin.unl.edu/courses/SPED/896) is graded.

E. Field Experience: General Special Education (1-6 cr, max 12) M. Field Experience: Mild/Moderate (1-6 cr, max 12) Y. Field Experience: Inclusion (1-6 cr, max 12)

Credit Hours:	1-6
Max credits per semester:	12
Course Format:	Field
Course Delivery:	Classroom

SPED **Directed Field Experience: Inclusion**

496Y/896Y

[LINK \(http://bulletin.unl.edu/courses/SPED/496Y\)](http://bulletin.unl.edu/courses/SPED/496Y)

Prereqs:
Permission.

Pass/No Pass only for SPED 496 (http://bulletin.unl.edu/courses/SPED/496) section. SPED 896 (http://bulletin.unl.edu/courses/SPED/896) is graded.

Credit Hours:	1-6
Max credits per semester:	12
Course Format:	Field
Course Delivery:	Classroom

SPED **Advanced Assessment Techniques**

802

[LINK \(http://bulletin.unl.edu/courses/SPED/802\)](http://bulletin.unl.edu/courses/SPED/802)

Prereqs:
SPED 800 (http://bulletin.unl.edu/courses/SPED/800) or equivalent; or permission

Comprehensive study of criterion-referenced and normative-referenced assessment instruments used by school resource personnel.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED **Effective Instruction for Learners with Special Needs**

803

[LINK \(http://bulletin.unl.edu/courses/SPED/803\)](http://bulletin.unl.edu/courses/SPED/803)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) and *802; or permission

Interaction of classroom-based assessment and effective instructional strategies for use with individual and group formats. Development of individual education plans, curriculum analysis, delivery of instruction, curriculum-based measurement, and specific and generic instructional strategies.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED

804

Managing Challenging Behavior

[LINK \(http://bulletin.unl.edu/courses/SPED/804\)](http://bulletin.unl.edu/courses/SPED/804)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *802, *803; or permission

Functional approaches that can be used by teachers and mental health practitioners for assessing, preventing, and managing children's challenging behavior. Basics of applied behavior analysis, functional analyses of behavior, individual- and group-oriented interventions, self-management training, and strategies for promoting generalization.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED

809

Autism Spectrum Disorders (ASDs): Effective Assessment and Intervention

[LINK \(http://bulletin.unl.edu/courses/SPED/809\)](http://bulletin.unl.edu/courses/SPED/809)

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>) / 800 (<http://bulletin.unl.edu/courses/SPED/800>) or equivalent

SPED 809 (<http://bulletin.unl.edu/courses/SPED/809>) requires observation in schools and applied assignments.

Designed for educators of children and youth with Autism Spectrum Disorders (ASDs) in school settings. Assessment strategies to identify characteristics of ASDs focused on individual needs and strengths-based outcomes. Knowledge and skills regarding evidence-based practices and individualized educational programs.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SPED

810

Autism Spectrum Disorders (ASDs): Methods and Program Planning

[LINK \(http://bulletin.unl.edu/courses/SPED/810\)](http://bulletin.unl.edu/courses/SPED/810)

Prereqs:
SPED *809 or equivalent

*Majors in severe disabilities must parallel with SPED *896P (1 cr). SPED *810 requires observations in schools and applied assignments.*

Planning, implementing, and evaluating effective education for individuals with Autism Spectrum Disorders (ASDs). Uses an ecological approach to assess present levels of performance and individual characteristics. Apply assessment outcomes to develop functional outcomes, to select instructional strategies, and utilize empirically-based interventions.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SPED

820

Mathematics Instruction for Diverse Learners

[LINK \(http://bulletin.unl.edu/courses/SPED/820\)](http://bulletin.unl.edu/courses/SPED/820)

Prereqs:
SPED 201 (<http://bulletin.unl.edu/courses/SPED/201>) or 400 (<http://bulletin.unl.edu/courses/SPED/400>) or 800 (<http://bulletin.unl.edu/courses/SPED/800>)

*SPED *820 and associated practicum is designed to meet professional standards (i.e., Council for Exceptional Children, Teacher Education*

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

Accreditation Council) for teachers in the area of instruction for diverse learners.

Supplemental basic skills and concepts instruction for diverse learners within a response to intervention models and on mathematics instruction. Selection, delivery, and evaluation of standard protocol and individualized interventions to diverse learners.

SPED 824 Functional Behavioral Assessment

[LINK \(http://bulletin.unl.edu/courses/SPED/824\)](http://bulletin.unl.edu/courses/SPED/824)

Prereqs:
SPED 303 (<http://bulletin.unl.edu/courses/SPED/303>) or equivalent.
Parallel SPED 824A (<http://bulletin.unl.edu/courses/SPED/824A>).

This course is a prerequisite for: [SPED 824](http://bulletin.unl.edu/courses/SPED/824) (<http://bulletin.unl.edu/courses/SPED/824>), [SPED 824A](http://bulletin.unl.edu/courses/SPED/824A) (<http://bulletin.unl.edu/courses/SPED/824A>)

Functional behavioral assessments (FBAs) and development of behavior intervention plans (BIPs) based on the assessments. Contextual and curriculum manipulations, and replacement behavior training.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED 824A Practicum in Functional Behavioral Assessment

[LINK \(http://bulletin.unl.edu/courses/SPED/824A\)](http://bulletin.unl.edu/courses/SPED/824A)

Prereqs:
SPED 303 (<http://bulletin.unl.edu/courses/SPED/303>) or approved equivalent. **Parallel SPED 824** (<http://bulletin.unl.edu/courses/SPED/824>).

This course is a prerequisite for: [SPED 824](http://bulletin.unl.edu/courses/SPED/824) (<http://bulletin.unl.edu/courses/SPED/824>)

Opportunities to engage in the activities and practice the skills associated with [SPED 824](http://bulletin.unl.edu/courses/SPED/824) (<http://bulletin.unl.edu/courses/SPED/824>). Culmination of the practicum is performing a complete functional behavioral assessment and developing a behavior intervention plan for a student who displays challenging behaviors.

Credit Hours:	2
Course Format:	Field
Campus:	
Course Delivery:	Classroom

SPED 833 Behavioral Systems and Interventions

[LINK \(http://bulletin.unl.edu/courses/SPED/833\)](http://bulletin.unl.edu/courses/SPED/833)

Prereqs:
SPED 813 (<http://bulletin.unl.edu/courses/SPED/813>) or equivalent

Three-tier models for encouraging and maintaining students' appropriate behaviors. Evaluation and implementation of interventions at the school-wide, classroom and/or small group, and individual levels. Presentation of different models i.e., Response to Intervention (RtI) and School-Wide Positive Behavior Support (SWPBS).

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED 834 Introduction to Special Vocational Needs

[LINK \(http://bulletin.unl.edu/courses/SPED/834\)](http://bulletin.unl.edu/courses/SPED/834)

Foundational course emphasizing the characteristics and identification of special needs learners in vocational settings. Determines needs, interests, and abilities of these students.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED 841 Emotional and Behavioral Disorders

[LINK \(http://bulletin.unl.edu/courses/SPED/841\)](http://bulletin.unl.edu/courses/SPED/841)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>) or permission

Etiology, theories and assessment of child and adolescent emotional and behavioral disorders. Addresses issues of definitions and classification (DSM-IV and special education) or deviant behavior and psychopathology, as well as an overview of service delivery systems in education and mental health.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED

843

Characteristics of Emotional and Learning Disorders

[LINK \(http://bulletin.unl.edu/courses/SPED/843\)](http://bulletin.unl.edu/courses/SPED/843)

Prereqs:
SPED 400 (<http://bulletin.unl.edu/courses/SPED/400>)/800 (<http://bulletin.unl.edu/courses/SPED/800>)

Learning, academic, behavioral, social-emotional and language characteristics of students who are classified as having disabilities for purposes of special education. Definitions, classification systems, assessment and verification criteria, and medications for students with learning and emotional disabilities.

Credit Hours: 3

Course Format: Lecture 3

Campus:

Course Delivery: Classroom

SPED

846

Foundations of Visual Impairment: Programs and Services for Individuals with Visual Impairments

Prereqs:
Admission to visually impaired program; hold or concurrently earn subject/field endorsement

Current educational programs and services for children with visual impairments, as well as children with multiple disabilities. History of educational services, developmental characteristics, psycho-social aspects, history of legislation, and grade I Braille.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED

847

Introduction to Eye Anatomy of Students with Visual Impairments

[LINK \(http://bulletin.unl.edu/courses/SPED/847\)](http://bulletin.unl.edu/courses/SPED/847)

Prereqs:
SPED *846 or permission

Structure and function of the visual system, conditions that effect visual ability, and the functional and environmental implications of low vision. Strategies for enhancing visual ability in children with visual impairments and children who have additional disabilities.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED

849

Braille Codes and Material Adaptations for Students with Visual Impairments

[LINK \(http://bulletin.unl.edu/courses/SPED/849\)](http://bulletin.unl.edu/courses/SPED/849)

Prereqs:
SPED *846 and *847, or permission

Basic skills in literary Braille transcription and codes. Acquire competence in reading and writing Braille and using the Perkins braillewriter and slate/stylus.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SPED

851

Intermediate Braille Codes and Instructional Material Adaptations for Students with Visual Impairments

[LINK \(http://bulletin.unl.edu/courses/SPED/851\)](http://bulletin.unl.edu/courses/SPED/851)

Prereqs:
SPED *846, *847, and *849

Credit Hours: 3

Advanced skills in Nemeth (mathematics code) and/or Literary code. Basic activities in braille formatting, foreign language, music and identification of braille technology devices and resources.

Campus:
Course Delivery: Classroom

SPED **852** **Instructional Methods for Teachers of Students with Visual Impairments** [LINK \(http://bulletin.unl.edu/courses/SPED/852\)](http://bulletin.unl.edu/courses/SPED/852)

Prereqs:
SPED *846, *847, *849, and *851

Methods and materials for educating children who are totally blind or have low vision, including students with multiple impairments. Practical skills in selecting, designing, and/or modifying materials for content area subjects: mathematics, science, social studies, creative arts, foreign language, and other subjects.

Credit Hours: 3
Campus:
Course Delivery: Classroom

SPED **852A** **Applied Technology Methods for Students with Visual Impairments** [LINK \(http://bulletin.unl.edu/courses/SPED/852A\)](http://bulletin.unl.edu/courses/SPED/852A)

Prereqs:
SPED *846 and *847, or equivalents

Theory and skill development in the selection and use of technology for students with visual impairments. Technology assessments, data collection, equipment feature, source of equipment, funding sources, writing technology instructional plans, and demonstration of using various equipment and technology.

Credit Hours: 1
Campus:
Course Delivery: Classroom

SPED **852B** **Applied Instructional Methods to Teach Students with Visual Impairments** [LINK \(http://bulletin.unl.edu/courses/SPED/852B\)](http://bulletin.unl.edu/courses/SPED/852B)

Prereqs:
SPED *846, *847, *849, *851, and *852; or equivalents

Practice using appropriate instructional methods and materials for educating the blind and low vision child.

Credit Hours: 2
Campus:
Course Delivery: Classroom

SPED **853** **Orientation and Mobility Skills for Students with Visual Impairments** [LINK \(http://bulletin.unl.edu/courses/SPED/853\)](http://bulletin.unl.edu/courses/SPED/853)

Prereqs:
SPED *846, *847, *849, *851, and *852

Theory and applied practice in basic orientation and mobility techniques for use with students with visual impairments. Practical methods for work in concept development, orientation skills, travel skills and techniques, personal safety and independent travel. Needs of specific populations such as people with low vision and individuals with additional disabilities. Vision simulators and occluders. An introduction to the history and development of the profession.

Credit Hours: 3
Campus:
Course Delivery: Classroom

SPED **860** **Issues in Early Childhood Special Education** [LINK \(http://bulletin.unl.edu/courses/SPED/860\)](http://bulletin.unl.edu/courses/SPED/860)

Introduction to the history, philosophy, and research related to early intervention practices with children 0–5 years of age. Discussion of issues related to legal mandates, model programs, family involvement, integration, transitions, service delivery systems, teamwork and assessment for young children.

Credit Hours: 3
Campus:
Course Delivery: Classroom

SPED

861**Infants with Disabilities and Home Visiting**[LINK \(http://bulletin.unl.edu/courses/SPED/861\)](http://bulletin.unl.edu/courses/SPED/861)**Prereqs:****SPED 960 (<http://bulletin.unl.edu/courses/SPED/960>) and permission.***SPED *861 requires a practicum in home visiting.*

Assessment and intervention strategies for developing appropriate early intervention programs for infants and toddlers with disabilities. Rationale and principles for conducting home-based, family-centered, and transdisciplinary services.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

862**Preschool Children with Disabilities in a Classroom**[LINK \(http://bulletin.unl.edu/courses/SPED/862\)](http://bulletin.unl.edu/courses/SPED/862)**Prereqs:****An assessment and behavior management course; and permission.***SPED *862 requires an applied experience.*

Selection, design and implementation of developmentally appropriate, activity-based interventions for preschool-age children with disabilities. Ecological assessments. Instructional factors, such as classroom environments, activity planning, selection, use and modification of strategies, home-school communications, and consulting to staff in inclusive settings.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

873**Teaching the Content Areas to the Hearing Impaired**[LINK \(http://bulletin.unl.edu/courses/SPED/873\)](http://bulletin.unl.edu/courses/SPED/873)*SPED 873 (<http://bulletin.unl.edu/courses/SPED/873>) is for all students in the hearing impaired program.*

Methods for teaching content areas (science, math, and social studies) to hearing impaired students from preschool through grade 12. Adapting curricula and materials from these areas for the hearing impaired students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

874**Language Arts and Literacy for the Hearing Impaired**[LINK \(http://bulletin.unl.edu/courses/SPED/874\)](http://bulletin.unl.edu/courses/SPED/874)

Assessment instruments, curricula and instructional methods for developing language and literacy in classrooms for hearing impaired children, preschool through grade 12. Methods for coordinating speech and/or language and/or auditory training program in the classroom with that in the speech and/or language therapy program.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

875**Itinerant Teaching Methods for Students who are Deaf or Hard of Hearing**[LINK \(http://bulletin.unl.edu/courses/SPED/875\)](http://bulletin.unl.edu/courses/SPED/875)

Methods for providing services for students with hearing loss, using itinerant and consultative models. Professional and parent in-service development, team-based problem solving, curriculum based pull-out services. Ecological assessment and management of deafness related technology in inclusive settings. Supervision of interpreters and paraprofessionals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

876**Language Development for Teachers**[LINK \(http://bulletin.unl.edu/courses/SPED/876\)](http://bulletin.unl.edu/courses/SPED/876)

Introduction to the foundations of normal speech and language development and potential difficulties in both early stages and in the classroom. Analysis of child language samples. Strategies for explaining language development to parents and professional colleagues.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Web

SPED

881**Methods for Students with Intellectual and Severe Disabilities**[LINK \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881)**Prereqs:**

[SPED 480 \(http://bulletin.unl.edu/courses/SPED/480/880\)](http://bulletin.unl.edu/courses/SPED/480/880)
<http://bulletin.unl.edu/courses/SPED/880>

[SPED 881 \(http://bulletin.unl.edu/courses/SPED/881\)](http://bulletin.unl.edu/courses/SPED/881) requires observations in schools and applied assignments.

Planning, implementing, and evaluating effective longitudinal education for individuals with intellectual impairments and severe disabilities. Knowledge and skills regarding best practices within inclusive education settings for these learners emphasizing an ecological and functional model that addresses useful skills in current and future environments.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

882**Specialized Instruction for Students with Severe and Multiple Disabilities**[LINK \(http://bulletin.unl.edu/courses/SPED/882\)](http://bulletin.unl.edu/courses/SPED/882)**Prereqs:**

[SPED *881 for the Severely/Multihandicapped endorsement program or SPED *862 for Preschool Handicapped endorsement program; and permission. Majors in severe disabilities must parallel with SPED 896P \(http://bulletin.unl.edu/courses/SPED/896P\) \(1 cr\).](#)

This course is a prerequisite for: [SPED 981 \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

*SPED *882 requires observations in schools and applied assignments.*

Selection, design, and implementation of best practice instruction for students with severe disabilities, multiple disabilities, or deaf-blindness.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED

886**Assessment, Evaluation, and Instruction of**Crosslisted as *TEAC 886*[LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)

This course is a prerequisite for: [EDPS 989 \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)

*TEAC/SPED *886 includes case study and planning for special student populations.*

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

- A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.
- B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED

890**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/SPED/890\)](http://bulletin.unl.edu/courses/SPED/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SPED

Special Topics in EducationCrosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

892**Prereqs:**

EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; **EDPS 859** (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1-3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED

893**Workshop Seminar**

[LINK \(http://bulletin.unl.edu/courses/SPED/893\)](http://bulletin.unl.edu/courses/SPED/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SPED

897**Student Teaching: Exceptional Learners**

[LINK \(http://bulletin.unl.edu/courses/SPED/897\)](http://bulletin.unl.edu/courses/SPED/897)

Prereqs:**Permission**

Laboratory and teaching experience in the area(s) of specialization.

- A. Mainstream (1-12 cr)
- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented (EDPS *897J)
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments
- Y. Inclusion
- Z. Multicultural Education

Credit Hours:	1-9
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

SPED

899**Masters Thesis**

[LINK \(http://bulletin.unl.edu/courses/SPED/899\)](http://bulletin.unl.edu/courses/SPED/899)

Prereqs:

Admission to masters degree program and permission of major adviser

Credit Hours:	1-10
Campus:	
Course Delivery:	Classroom

SPED

907**Seminar in Special Education**

[LINK \(http://bulletin.unl.edu/courses/SPED/907\)](http://bulletin.unl.edu/courses/SPED/907)

Prereqs:**Permission**

- B. Behavior Disorders
- D. Deaf/Hard of Hearing
- E. General Special Education
- J. Gifted/Talented
- L. Learning Disabilities
- M. Mildly/Moderate Disabilities
- P. Severe Disabilities
- Q. Early Childhood Special Education
- V. Visual Impairments

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SPED
908

Resource Consultation Services

[LINK \(http://bulletin.unl.edu/courses/SPED/908\)](http://bulletin.unl.edu/courses/SPED/908)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), and one of the following: *831, *851, *861, *881; or permission

Roles and functions of school resource personnel in serving as educational consultants to regular school staff.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
932

Cognitive Strategy Instruction

[LINK \(http://bulletin.unl.edu/courses/SPED/932\)](http://bulletin.unl.edu/courses/SPED/932)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *803, and *831 or permission

How to implement cognitive strategy instruction with students learning difficulties. Practical model which allows students to successfully teach cognitive strategies. Metacognition, attribution training, and attention deficit disorders.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SPED
942

Strategic Approaches for EBD

[LINK \(http://bulletin.unl.edu/courses/SPED/942\)](http://bulletin.unl.edu/courses/SPED/942)

Prereqs:
SPED 800 (<http://bulletin.unl.edu/courses/SPED/800>), *804, and *841; or permission

Strategic therapy techniques for assessment and treatment of EBD.
A. Special Topics in EBD (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SPED
960

Family and School Collaboration in Special Education

[LINK \(http://bulletin.unl.edu/courses/SPED/960\)](http://bulletin.unl.edu/courses/SPED/960)

Prereqs:
Professional experience or completion of one practicum and/or field experience with young children (birth to age 5) or other individuals ages 5 to 21 years who have disabilities

This course is a prerequisite for: [SPED 861](http://bulletin.unl.edu/courses/SPED/861) (<http://bulletin.unl.edu/courses/SPED/861>)

Functions and interactions of both family and education systems. Impact of having a child with a disability on the normal and stressed family system. Promote family-professional partnerships in assessment and intervention for the child and/or student with an IFSP/IEP. Communication skills are reviewed and practiced for effective teaming among educators and for interviewing, consulting, collaborating and coaching with family members and other community team members.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SPED
980

Assessment of Students with Severe, Sensory, and Developmental Disabilities

[LINK \(http://bulletin.unl.edu/courses/SPED/980\)](http://bulletin.unl.edu/courses/SPED/980)

Prereqs:
SPED *881 and *882; and permission

This course is a prerequisite for: [SPED 987E](http://bulletin.unl.edu/courses/SPED/987E) (<http://bulletin.unl.edu/courses/SPED/987E>)

Designed to meet the needs of educators who conduct assessment of students with low incidence disabilities in school settings. Strategies emphasize assessing capabilities and needs in relationship to valued life outcomes. Processes of instructional outcomes. Some assessment conducted

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

in schools and community settings. Learning outcomes individualized to match special education certification program.

SPED
981

Functional Assessment and Behavioral Support for Students with Severe Developmental Disabilities [LINK \(http://bulletin.unl.edu/courses/SPED/981\)](http://bulletin.unl.edu/courses/SPED/981)

Prereqs:
SPED 882 (<http://bulletin.unl.edu/courses/SPED/882>) and permission. Majors in severe disabilities must parallel with SPED 896P (<http://bulletin.unl.edu/courses/SPED/896P>) (1 cr).

SPED 981 (<http://bulletin.unl.edu/courses/SPED/981>) requires observation in schools and applied assignments.

Assessment and intervention strategies for developing positive behavior support for students with severe disabilities or developmental disabilities who have challenging behavior. Rationale and principles for using an educative approach, functional behavior analysis, and a variety of individualized ecological and curricular interventions. Process of assessment conducted in school settings.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SPED
987E

Seminar in Special Education [LINK \(http://bulletin.unl.edu/courses/SPED/987E\)](http://bulletin.unl.edu/courses/SPED/987E)

Prereqs:
SPED 980 (<http://bulletin.unl.edu/courses/SPED/980>) and 981 (<http://bulletin.unl.edu/courses/SPED/981>)

Credit Hours:	1-12
Campus:	
Course Delivery:	Classroom

SPED
990

Workshop Seminar [LINK \(http://bulletin.unl.edu/courses/SPED/990\)](http://bulletin.unl.edu/courses/SPED/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Credit Hours:	1-12
Campus:	
Course Delivery:	Classroom

SPED
995

Doctoral Seminar [LINK \(http://bulletin.unl.edu/courses/SPED/995\)](http://bulletin.unl.edu/courses/SPED/995)

Prereqs:
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

SPED
996A

Research Other Than Thesis [LINK \(http://bulletin.unl.edu/courses/SPED/996A\)](http://bulletin.unl.edu/courses/SPED/996A)

(1-12, max 12) Independent operational research under faculty supervision.

Campus:	
Course Delivery:	Classroom

SPED
996B

Readings in Special Education [LINK \(http://bulletin.unl.edu/courses/SPED/996B\)](http://bulletin.unl.edu/courses/SPED/996B)

Prereqs:
Permission

(1–12, max 12) Readings on selected problems in special education.

Campus:	
Course Delivery:	Classroom

SPED
997E **Resource Teacher Externship**

[LINK \(http://bulletin.unl.edu/courses/SPED/997E\)](http://bulletin.unl.edu/courses/SPED/997E)

Prereqs:
SPED *802, *803

Extensive practicum experience in school settings for individuals preparing to serve as school resource teachers and consultants.

Credit Hours:	1–6
Campus:	
Course Delivery:	Classroom

SPED
999 **Doctoral Dissertation**

[LINK \(http://bulletin.unl.edu/courses/SPED/999\)](http://bulletin.unl.edu/courses/SPED/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1–24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Courses for SLPA (SLPA)

CYAF
891 **Special Topics in Human Sciences**

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMFD 891*

[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

SLPA
450/850 **Audiology for Educators of the Deaf or Hard of Hearing**

[LINK \(http://bulletin.unl.edu/courses/SLPA/450\)](http://bulletin.unl.edu/courses/SLPA/450)

Anatomy and physiology of hearing; components of adequate evaluation for placement and educational planning; diagnosis using audiogram, functional and communication assessment; stimulation and utilization of residual hearing; and management of assistive and/or augmentative devices.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	UNO
Course Delivery:	Web

SLPA
452/852 **Normal Language Development During School Years**

[LINK \(http://bulletin.unl.edu/courses/SLPA/452\)](http://bulletin.unl.edu/courses/SLPA/452)

Normal syntactic, semantic, and pragmatic language development in school-age children and youth. Complex syntax, semantic development, pragmatic development, using language to learn, language–literacy relations, and abstract language development.

Credit Hours:	3
Course Delivery:	Classroom

SLPA
Research Methodology in Speech–Language Pathology and Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/454\)](http://bulletin.unl.edu/courses/SLPA/454)

454/854

Prereqs:
Speech–language pathology and audiology major.

Introduction to research principles, methods, and design. Survey and critique of research in special education and communication disorders.

Credit Hours:	3
Course Delivery:	Classroom

SLPA **Language Disorders: Preschool Level**

[LINK \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

461/861

Prereqs:
Parallel SLPA 461L (<http://bulletin.unl.edu/courses/SLPA/461L>)/861L (<http://bulletin.unl.edu/courses/SLPA/861L>).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461), [SLPA 461L \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)

Characteristics of language impaired preschool children and the nature of their disorders. Introduction to principles of assessment and treatment.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

SLPA **Language Disorders: Preschool Level Lab**

[LINK \(http://bulletin.unl.edu/courses/SLPA/461L\)](http://bulletin.unl.edu/courses/SLPA/461L)

461L/861L

Prereqs:
Parallel with SLPA 461 (<http://bulletin.unl.edu/courses/SLPA/461>)/861 (<http://bulletin.unl.edu/courses/SLPA/861>).

This course is a prerequisite for: [SLPA 461 \(http://bulletin.unl.edu/courses/SLPA/461\)](http://bulletin.unl.edu/courses/SLPA/461)

Practical application of language assessment and intervention in preschool children with language disorders.

Credit Hours:	1
Course Format:	Lab
Course Delivery:	Classroom

SLPA **Augmentative Communication**

[LINK \(http://bulletin.unl.edu/courses/SLPA/486\)](http://bulletin.unl.edu/courses/SLPA/486)

486/886

Speech pathology students must register for 3 cr only; special education students may register for 2–3

Introduction to the augmentative communication options for persons unable to speak or write because of physical, language, or cognitive disability.

Credit Hours:	2–3
Course Delivery:	Classroom

SLPA **Linguistic Needs of Bilingual and Culturally Different Students**

[LINK \(http://bulletin.unl.edu/courses/SLPA/488\)](http://bulletin.unl.edu/courses/SLPA/488)

488/888

Prereqs:
SLPA 250 (<http://bulletin.unl.edu/courses/SLPA/250>) and 251 (<http://bulletin.unl.edu/courses/SLPA/251>) or permission.

Theoretical and applied information about situational factors which have an impact on spoken and written language; addresses how individual differences due to gender, handicapping conditions, socio-economic status, and cultural–ethnic background contribute to diversity in communication patterns and often act as a barrier to successful interactions in learning and social settings.

Credit Hours:	3
Course Delivery:	Classroom
ACE Outcomes:	9 [?]

SLPA **Readings and Research in Speech–Language Pathology and Audiology**

[LINK \(http://bulletin.unl.edu/courses/SLPA/496\)](http://bulletin.unl.edu/courses/SLPA/496)

496/896

Prereqs:
Permission.

Credit Hours: 1-3
Course Delivery: Classroom

SLPA

851

Clinical Phonology: Assessment and Management

[LINK \(http://bulletin.unl.edu/courses/SLPA/851\)](http://bulletin.unl.edu/courses/SLPA/851)

Prereqs:
SLPA 250 (<http://bulletin.unl.edu/courses/SLPA/250>) and 464 (<http://bulletin.unl.edu/courses/SLPA/464>) or permission

Credit Hours: 3
Campus:
Course Delivery: Classroom

Theoretical foundations; applied clinical phonology.

SLPA

853

Neurological Foundations of Speech and Language

[LINK \(http://bulletin.unl.edu/courses/SLPA/853\)](http://bulletin.unl.edu/courses/SLPA/853)

Basic concepts of neurology, protection and blood supply of the Central Nervous System (CNS), anatomical structures of the CNS, neuromotor control of speech, cranial nerves for speech production and neuron motor disorders.

Credit Hours: 3
Campus:
Course Delivery: Classroom

SLPA

862

Language Disorders in Special Populations

[LINK \(http://bulletin.unl.edu/courses/SLPA/862\)](http://bulletin.unl.edu/courses/SLPA/862)

Advanced information about language disorders, assessment, and intervention in various populations.

A. Birth to Three: Communication Assessment and Intervention
E. Preadolescents and Adolescents
J. Severe Disabilities and Autism: Communication Assessment and Intervention
K. Special Topics in Language Disorders

Credit Hours: 2-3
Campus:
Course Delivery: Classroom

SLPA

863

Language Disorders in Elementary School-aged Population

[LINK \(http://bulletin.unl.edu/courses/SLPA/863\)](http://bulletin.unl.edu/courses/SLPA/863)

Advanced information about language disorders, assessment, and intervention in elementary school-aged children.

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

SLPA

865

Voice Disorders

[LINK \(http://bulletin.unl.edu/courses/SLPA/865\)](http://bulletin.unl.edu/courses/SLPA/865)

Prereqs:
SLPA 455 (<http://bulletin.unl.edu/courses/SLPA/455>)

Etiology and symptoms of voice disorders, procedures used in clinical evaluation, and methods and procedures used in therapy.

Credit Hours: 2
Campus:
Course Delivery: Classroom

SLPA

884

Speech and Language Development of the Hearing Impaired

[LINK \(http://bulletin.unl.edu/courses/SLPA/884\)](http://bulletin.unl.edu/courses/SLPA/884)

Crosslisted as *SPED 884*

Theories of speech and language development as they apply to hearing impaired children. Evaluation and intervention of speech and language with emphasis on maintenance of communicative skills.

Credit Hours: 3
Course Format: Lecture 3

Campus:	
Course Delivery:	Classroom

SLPA
885

Fluency Disorders

[LINK \(http://bulletin.unl.edu/courses/SLPA/885\)](http://bulletin.unl.edu/courses/SLPA/885)

Research related to the nature, diagnosis and clinical management of stuttering is considered. Therapy models are presented along with data bearing on the efficacy of particular approaches. Specific rehabilitation procedures.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
887

Language and Learning Disorders

[LINK \(http://bulletin.unl.edu/courses/SLPA/887\)](http://bulletin.unl.edu/courses/SLPA/887)

Prereqs:
For non-SLPA majors only

Review of prominent theories relating language to cognitive development and learning; student interaction on how varying styles and abnormal skills influence normal learning; how modifications can be made in materials content and classrooms to accommodate a child that has a language and learning disorder.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA
890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/SLPA/890\)](http://bulletin.unl.edu/courses/SLPA/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SLPA
892

Counseling and Behavior Issues in Speech Language Pathology

[LINK \(http://bulletin.unl.edu/courses/SLPA/892\)](http://bulletin.unl.edu/courses/SLPA/892)

Basic skills in counseling and behavior management as applied to the field of communication disorders. Practical, direct application to students' clinical work with individuals with a variety of communication disorders.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

SLPA
893

Clinical Decision Making

[LINK \(http://bulletin.unl.edu/courses/SLPA/893\)](http://bulletin.unl.edu/courses/SLPA/893)

Critical Thinking skills necessary for decision-making during the assessment and treatment of individuals with communication disorders. Understanding and applying clinical processes related to the practice of speech-language pathology.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

SLPA
897

Advanced Practicum

[LINK \(http://bulletin.unl.edu/courses/SLPA/897\)](http://bulletin.unl.edu/courses/SLPA/897)

Prereqs:
Completion of the undergraduate preprofessional program

Supervised practicum experiences provided with difficult speech, language and/or hearing problems in a variety of clinical, medical, geriatric,

Credit Hours:	1-3
Max credits per degree:	6
Course Format:	Field

rehabilitational and public school settings.

- A. Audiology (1–3 cr per sem)
- B. Speech/Language Pathology (1–3 cr per sem)
- E. Externship (1–3 cr per sem)
- G. Public Schools (1–3 cr per sem)
- T. Externship in Audiology (1–6 cr per sem, max 12)

Campus:

Course Delivery: Classroom

SLPA
898

Special Topics in Speech Pathology and Audiology

[LINK \(http://bulletin.unl.edu/courses/SLPA/898\)](http://bulletin.unl.edu/courses/SLPA/898)

Prereqs:
Permission

Special topics in speech pathology and audiology.

Credit Hours: 1–24

Campus:

Course Delivery: Classroom

SLPA
899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/SLPA/899\)](http://bulletin.unl.edu/courses/SLPA/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 1–10

Campus:

Course Delivery: Classroom

SLPA
902

Advanced Clinical Evaluation

[LINK \(http://bulletin.unl.edu/courses/SLPA/902\)](http://bulletin.unl.edu/courses/SLPA/902)

Instruction and practice in understanding, applying, and interpreting advanced clinical tests. Understanding the use of differential diagnostic tests used in assessment of peripheral and central lesions.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA
904

Basic Instrumentation

[LINK \(http://bulletin.unl.edu/courses/SLPA/904\)](http://bulletin.unl.edu/courses/SLPA/904)

Basic electrical theory and practical electronic information for the audiologist. Basic electrical and electronic information applicable to hearing, perception and acoustics. Basic electronics and electronic components, analog and digital circuits, transducers, calibration of audiometric instruments, amplifiers, attenuators and test equipment.

Credit Hours: 3

Course Format: Lab, Lecture

Campus:

Course Delivery: Classroom

SLPA
906

Advanced Clinical Assessment II

[LINK \(http://bulletin.unl.edu/courses/SLPA/906\)](http://bulletin.unl.edu/courses/SLPA/906)

Issues of professionalism and the development of best–practice models in Audiology. Relationship–centered patient care and the impact of multicultural issues on the practice of Audiology. Use of clinical decision analysis and evidence–based practice. Application to the common clinical assessment tools discussed in the “Advanced Audiological Assessment I” course.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA
908

Physiological Acoustics

[LINK \(http://bulletin.unl.edu/courses/SLPA/908\)](http://bulletin.unl.edu/courses/SLPA/908)

Pneumatic/mechanical/hydraulic/electrical interfaces involved in the transduction of acoustic energy through the auditory system. Investigation of external ear biophysics, the middle ear transfer function, cochlear

Credit Hours: 3

Campus:

SLPA

910**Auditory Signal Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/910\)](http://bulletin.unl.edu/courses/SLPA/910)

Principles of signal processing relevant to tests of hearing and to theories of functioning of the auditory system. Introduction of concepts in mathematics, vibration and acoustics. Time- and frequency-domain representations of signals, digital filtering, analysis of lumped-element circuits, linear and nonlinear signal analyses, modulation theory, and the effect of noise on measurements. Applications relevant to audiology including hearing aid performance and measurements, middle-ear transmission, cochlear mechanics, and auditory-nerve firing patterns. Application of these models to understanding physiological sources of conductive and sensorineural hearing loss.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

912**Psychoacoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/912\)](http://bulletin.unl.edu/courses/SLPA/912)

Psychoacoustic aspects of audition, including psychoacoustic instrumentation, masking level differences, psychoacoustical scaling, difference limen for intensity and frequency, loudness, critical bands and critical ratios, absolute threshold measurement, differential threshold measurement, and temporal summation. Brief investigations of certain psychoacoustic phenomena.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

916**Medical Aspects of Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/916\)](http://bulletin.unl.edu/courses/SLPA/916)

Effects of, and principles of, medical management of disorders of the cochlea, retrocochlear region, and central auditory mechanism. Anatomy and physiology of the inner ear and central auditory pathways, function and physiology of the vestibule and labyrinth, and histology and biochemistry of the inner ear and ascending auditory tracts.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

918**Auditory Assessment of Infants and Children**[LINK \(http://bulletin.unl.edu/courses/SLPA/918\)](http://bulletin.unl.edu/courses/SLPA/918)**Prereqs:**

[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Development of the auditory system in infants and young children. Techniques used in differential diagnosis, and screening of auditory disorders in the pediatric population.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

920**Electrophysiological Assessment of Hearing**[LINK \(http://bulletin.unl.edu/courses/SLPA/920\)](http://bulletin.unl.edu/courses/SLPA/920)

Instrumentation and procedures for electrophysiologic evaluation of the auditory system. Procedures and special tests include Electrocochleography, Auditory Brainstem Response, Middle Latency Response, Late Cortical Response, and others.

Credit Hours: 3

Campus:

Course Delivery: Classroom

SLPA

922**Pharmacology for Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/922\)](http://bulletin.unl.edu/courses/SLPA/922)

Introduction to pharmacological chemistry, drugs, and drug interactions. Ototoxic drugs and other drugs frequently seen in patients in audiology practice settings.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA **924** **Sensory Technology and Rehabilitation for the Hearing Impaired** [LINK \(http://bulletin.unl.edu/courses/SLPA/924\)](http://bulletin.unl.edu/courses/SLPA/924)

Prereqs:
[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Students will initiate and carry out directed laboratory assignments. Conventional analog hearing aids which includes: the design and operation of hearing aids, electroacoustic measurements and accompanying instrumentation, earmold and plumbing acoustics, evaluation and selection procedures (adults), orientation

Credit Hours:	4
Campus:	
Course Delivery:	Classroom

SLPA **926** **Sensory Technology and Rehabilitation for the Hearing Impaired** [LINK \(http://bulletin.unl.edu/courses/SLPA/926\)](http://bulletin.unl.edu/courses/SLPA/926)

Prereqs:
[SLPA 271 \(http://bulletin.unl.edu/courses/SLPA/271\)](http://bulletin.unl.edu/courses/SLPA/271) or equivalent

Students will be expected to engage in class presentations. Various assistive technologies, other than conventional analog hearing aids, utilized by persons who are deaf and hard of hearing. Technologies such as cochlear implants, tactile devices, radio frequency systems, digital hearing aids, and telephone, television and alerting devices. Information regarding pediatric amplification, counseling, and speechreading introduced.

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

SLPA **928** **Hearing Conservation and Industrial Audiology** [LINK \(http://bulletin.unl.edu/courses/SLPA/928\)](http://bulletin.unl.edu/courses/SLPA/928)

Theories and basic resources for participation in industrial, government, or community hearing conservation programs.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA **930** **Genetics of Hearing Loss** [LINK \(http://bulletin.unl.edu/courses/SLPA/930\)](http://bulletin.unl.edu/courses/SLPA/930)

The genetic basis for hearing loss.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA **932** **Vestibular Assessment I** [LINK \(http://bulletin.unl.edu/courses/SLPA/932\)](http://bulletin.unl.edu/courses/SLPA/932)

Students will initiate and carry out directed laboratory assignments.

The first of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Normal anatomy and physiology of the balance and ocular motor systems, contrasted with a wide range of pathological conditions. Electronystagmography (video-nystagmography two- and three-dimensional recordings) and assessment of the otolith organs.

Credit Hours:	4
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

SLPA

934**Vestibular Assessment II**[LINK \(http://bulletin.unl.edu/courses/SLPA/934\)](http://bulletin.unl.edu/courses/SLPA/934)

The second of a two-course series on the normal and pathophysiology of the human balance system and tools for its investigation and treatment. Advanced techniques for patient assessment using rotational chair and posturography protocols. Techniques for full assessment in an office situation without extensive equipment. Options for treatment and management of this group of patients. Vestibular and balance rehabilitation therapy program development.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

936**Implantable Prosthetics**[LINK \(http://bulletin.unl.edu/courses/SLPA/936\)](http://bulletin.unl.edu/courses/SLPA/936)

Design, operation, candidacy, assessment, surgical procedures, fitting, verification, and rehabilitation procedures related to implantable prosthetic devices for individuals who are deaf and hard of hearing. Cochlear implants, bone anchored hearing aids, implantable middle ear devices, and auditory brainstem implants.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

938**Private Practice and/or Clinic Management**[LINK \(http://bulletin.unl.edu/courses/SLPA/938\)](http://bulletin.unl.edu/courses/SLPA/938)

Principles and procedures for starting and surviving as an independent practitioner in audiology. Practice management strategies for use in any audiological setting.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA

940**Aural Rehabilitation Across the Lifespan**[LINK \(http://bulletin.unl.edu/courses/SLPA/940\)](http://bulletin.unl.edu/courses/SLPA/940)

Habilitation (for pre-lingual deaf and hard of hearing infants and toddlers) and rehabilitation efforts for individuals of all ages who are deaf or hard of hearing.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

942**Seminar in Audiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/942\)](http://bulletin.unl.edu/courses/SLPA/942)

Research and clinical procedures; findings and implications in audiology and hearing science.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

956**Language Study of Teachers of Deaf and Hard of Hearing (DHH)** [LINK \(http://bulletin.unl.edu/courses/SLPA/956\)](http://bulletin.unl.edu/courses/SLPA/956)Crosslisted as *SPED 956*

Theoretical and practical aspects of American Sign Language (ASL) structure. Issues relevant to the use of sign language in education, written English as a second language, classroom discourse, and educational interpreting. Sociolinguistic aspects of sign language among deaf and hearing individuals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

SLPA

964**Speech Perception and Processing**[LINK \(http://bulletin.unl.edu/courses/SLPA/964\)](http://bulletin.unl.edu/courses/SLPA/964)**Prereqs:**

SLPA 250 (<http://bulletin.unl.edu/courses/SLPA/250>) and 456 (<http://bulletin.unl.edu/courses/SLPA/456>) or permission

Human and computer perception and processing of speech. The speech code and its representation in the brain, laboratory techniques for perceptual experimentation, acoustic analysis of speech, and computer synthesis of speech.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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SLPA

966**Swallowing Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/966\)](http://bulletin.unl.edu/courses/SLPA/966)

Swallowing disorders of children and adults. Procedures used in assessment, diagnosis, and intervention.

Credit Hours:	2
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Campus:	
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Course Delivery:	Classroom
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SLPA

967**Cleft Palate**[LINK \(http://bulletin.unl.edu/courses/SLPA/967\)](http://bulletin.unl.edu/courses/SLPA/967)**Prereqs:**

SLPA 464 (<http://bulletin.unl.edu/courses/SLPA/464>) or equivalent

Communication, dental, medical, and associated problems related to cleft palate.

Credit Hours:	2
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Campus:	
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Course Delivery:	Classroom
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SLPA

968**Motor Speech Disorders**[LINK \(http://bulletin.unl.edu/courses/SLPA/968\)](http://bulletin.unl.edu/courses/SLPA/968)**Prereqs:**

SLPA *853

Motor speech disorders resulting from neuropathology of the central and peripheral nervous systems as found in cerebral palsy, Parkinsonism, and other developmental and acquired neuromotor problems of children and adults.

Credit Hours:	2
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Campus:	
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Course Delivery:	Classroom
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SLPA

980A**Seminar in Speech Physiology**[LINK \(http://bulletin.unl.edu/courses/SLPA/980A\)](http://bulletin.unl.edu/courses/SLPA/980A)**Prereqs:**

SLPA 455 (<http://bulletin.unl.edu/courses/SLPA/455>) and 456 (<http://bulletin.unl.edu/courses/SLPA/456>) or equivalent

Research procedures, findings, and implications in speech and hearing science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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SLPA

980B**Seminar in Speech Acoustics**[LINK \(http://bulletin.unl.edu/courses/SLPA/980B\)](http://bulletin.unl.edu/courses/SLPA/980B)**Prereqs:**

SLPA 455 (<http://bulletin.unl.edu/courses/SLPA/455>) and 456 (<http://bulletin.unl.edu/courses/SLPA/456>) or equivalent

Research procedures, findings, and implications in speech and hearing

Credit Hours:	3
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Campus:	
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Course Delivery:	Classroom
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science (experimental phonetics) in the areas of physiology, acoustics, and psychoacoustics.

SLPA

981

Seminar in Speech Pathology

[LINK \(http://bulletin.unl.edu/courses/SLPA/981\)](http://bulletin.unl.edu/courses/SLPA/981)

Prereqs:

SLPA *851, *865, 967, and/or 968

Research procedures, findings and clinical implications in the following areas:

- B. Fluency Disorders (1-3 cr)
- D. Voice Disorders (1-3 cr)
- E. Motor Speech Disorder (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SLPA

983

Seminar in Language

[LINK \(http://bulletin.unl.edu/courses/SLPA/983\)](http://bulletin.unl.edu/courses/SLPA/983)

Prereqs:

SLPA 251 (<http://bulletin.unl.edu/courses/SLPA/251>) or 852 (<http://bulletin.unl.edu/courses/SLPA/852>) or permission

Research procedures, findings and implications in language pathology and treatment in the areas of development, evaluation and habilitation.

- A. Child Language Development and Disorders (1-3 cr)
- B. Adolescent/Adult Language Development and Disorders (1-3 cr)
- E. Augmentative/Alternative Communication (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

SLPA

984

Seminar in Augmentative Communication

[LINK \(http://bulletin.unl.edu/courses/SLPA/984\)](http://bulletin.unl.edu/courses/SLPA/984)

Prereqs:

SLPA 886 (<http://bulletin.unl.edu/courses/SLPA/886>)

Advanced seminar on research literature in the augmentative communication field.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

SLPA

985

Traumatic Brain Injury

[LINK \(http://bulletin.unl.edu/courses/SLPA/985\)](http://bulletin.unl.edu/courses/SLPA/985)

Prereqs:

SLPA *853

Assessment and treatment of child and adult cognitive and communication disorders resulting from traumatic brain injury.

Credit Hours:	2
Campus:	
Course Delivery:	Classroom

SLPA

987

Aphasia in Adults

[LINK \(http://bulletin.unl.edu/courses/SLPA/987\)](http://bulletin.unl.edu/courses/SLPA/987)

Prereqs:

SLPA *853

Adult language disorders resulting from stroke or other acquired central nervous system insult. Includes historical/theoretical development of understanding, cerebral dominance for language, classifications, rationale for diagnostic and therapeutic management, prognostic factors, agnosias and apraxia.

Credit Hours:	2
Course Format:	Lecture 2
Campus:	
Course Delivery:	Classroom

SLPA

990**Workshop Seminar**[LINK \(http://bulletin.unl.edu/courses/SLPA/990\)](http://bulletin.unl.edu/courses/SLPA/990)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

SLPA

994**Doctoral Capstone Thesis**[LINK \(http://bulletin.unl.edu/courses/SLPA/994\)](http://bulletin.unl.edu/courses/SLPA/994)

Selection of the topic for this project should take place no later than the summer of the third year by consultation with the project adviser. Enrollment in SLPA 994 (<http://bulletin.unl.edu/courses/SLPA/994>) is required during each semester that the project is underway. Capstone experience prepared in the form of a research project paper containing a significant treatment of some aspect of audiology.

Credit Hours:	3
Max credits per degree:	9
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

SLPA

995**Doctoral Seminar**[LINK \(http://bulletin.unl.edu/courses/SLPA/995\)](http://bulletin.unl.edu/courses/SLPA/995)

Prereqs:
Permission

The course is intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours:	3
Max credits per degree:	18
Campus:	
Course Delivery:	Classroom

SLPA

996**Research Problems Other Than Thesis**[LINK \(http://bulletin.unl.edu/courses/SLPA/996\)](http://bulletin.unl.edu/courses/SLPA/996)

Prereqs:
Permission

Credit Hours:	1-9
Campus:	
Course Delivery:	Classroom

SLPA

999**Doctoral Dissertation**[LINK \(http://bulletin.unl.edu/courses/SLPA/999\)](http://bulletin.unl.edu/courses/SLPA/999)

Prereqs:
Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Courses for TEAC (TEAC)

BIOC

869**Chemistry for Secondary School Classrooms**Crosslisted as *BIOS 883, CHEM 869, TEAC 869*[LINK \(http://bulletin.unl.edu/courses/BIOC/869\)](http://bulletin.unl.edu/courses/BIOC/869)

Credit in this course will not count towards a graduate degree in chemistry or biochemistry or biological sciences. Course taught via World Wide Web. Chemistry content for high school teachers organized according to the

Credit Hours:	1
Max credits per degree:	12

National Science Education Standards. Individual course coverage includes: content, integration with other sciences and mathematics, graphing calculators, probe-experiments, simulations, at-home experiments, teaching materials, and industrial applications related to the title description.

- A. Structure and Properties of Matter: Water and Solutions (1 cr)
- B. Structure and Properties of Matter: Periodicity (1 cr)
- D. Structure and Properties of Matter: Bonding and Structure (1 cr)
- E. Structure and Properties of Matter: Carbon Chemistry and Polymers (1 cr)
- J. Structure and Properties of Matter: Gases and the Atmosphere (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1 cr)
- L. Structure and Properties of Matter: Condensed States and Materials Science (1 cr)
- M. Interactions of Matter and Energy (1 cr)
- N. Chemistry of Life Processes: DNA (1 cr)
- P. Chemistry of Life Processes: Energy and Metabolism (1 cr)
- Q. Chemical Reactions: Equations and their Consequences (1 cr)
- R. Chemical Reactions: Acids and Bases (1 cr)
- T. Chemical Reactions: Kinetics (1 cr)
- U. Chemical Reactions: Oxidation, Reduction and Electrochemistry (1 cr)
- V. Equilibrium: Unifying Theme (1 cr)
- W. Conservation of Energy and the Increase in Disorder: Thermodynamics (1 cr)
- Y. Inquiry and the Nature of Science: Analysis and Instrumentation (1 cr)
- Z. Structure of Atoms: Nuclear Chemistry (1 cr)

Campus:

Course Delivery: Classroom

CHEM

874

Topics in Chemical Pedagogy

Crosslisted as TEAC 874

[LINK \(http://bulletin.unl.edu/courses/CHEM/874\)](http://bulletin.unl.edu/courses/CHEM/874)

A maximum combined total of 12 hours from TEAC *869 and/or *874 may be counted toward a masters degree. Credit in this course will not count towards a graduate degree in chemistry. Courses are Web-based. Topical chemistry content for high school teachers organized according to the National Science Education Standards.

- A. Green Chemistry (2-3 cr)
- D. Demonstrations for High School Chemistry (1-3 cr)
- E. Experiments for High School Chemistry (1-3 cr)
- J. Developing a Safety Culture (1 cr)
- K. Chemistry of Life Processes: Biomolecules (1-3 cr)
- L. Addressing Misconceptions (1-3 cr)
- M. Mathematics Integration ([MATH 874M](http://bulletin.unl.edu/courses/MATH/874M) (<http://bulletin.unl.edu/courses/MATH/874M>)) (2-3 cr) May be counted towards the MAT and MSCT degrees in mathematics and statistics, not the MA, MS, or PhD.
- N. Inquiry Strategies (1-3 cr)
- P. Chemistry in the Workplace (1-3 cr)
- Y. Graphing Calculator Activities (2-3 cr)

Credit Hours: 1-3

Max credits per degree: 12

Campus:

Course Delivery: Classroom

CHEM

875

Chemical Pedagogy in the High School Laboratory

Crosslisted as TEAC 875

[LINK \(http://bulletin.unl.edu/courses/CHEM/875\)](http://bulletin.unl.edu/courses/CHEM/875)

Credit in this course will not count towards a graduate degree in chemistry. Laboratory-based courses addressing specific issues connected with teaching laboratory work in high school chemistry programs.

- A. Small-scale Experiments (1-3 cr)
- B. Technology Integration (3-6 cr)
- E. Inquiry Experiments (1-3 cr)
- K. At-home Experiments (1-3 cr)
- P. Probe Experiments (1-3 cr)
- T. Traditional Experiments (1-3 cr)

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

COMM

427/827

Instructional Communication

Crosslisted as TEAC 429/829

[LINK \(http://bulletin.unl.edu/courses/COMM/427\)](http://bulletin.unl.edu/courses/COMM/427)

Prereqs:

Credit Hours: 3

Junior/senior standing; College of Education and Human Sciences major; COMM 200 (<http://bulletin.unl.edu/courses/COMM/200>), 201 (<http://bulletin.unl.edu/courses/COMM/201>); or permission.

Course Delivery: Classroom

Advanced introductory course in instructional communication, focusing on understanding variables associated with the communication process in instructional settings and managing instructional communication more effectively. Provides an experimental and a cognitive understanding of the role of communication in the instructional process.

CYAF

814

Evaluation in Career and Technical Education

Crosslisted as *TEAC 814*

[LINK \(http://bulletin.unl.edu/courses/CYAF/814\)](http://bulletin.unl.edu/courses/CYAF/814)

Two aspects of evaluation in the classroom: 1) selection and use of evaluation in assessing learning, and 2) consideration of conceptual and methodological issues in conducting evaluation to determine and account for the effectiveness of programs.

Credit Hours: 3

Campus:

Course Delivery: Classroom

CYAF

891

Special Topics in Human Sciences

Crosslisted as *HUMS 891, NUTR 891, SLPA 891, TEAC 891, TMTD 891*

[LINK \(http://bulletin.unl.edu/courses/CYAF/891\)](http://bulletin.unl.edu/courses/CYAF/891)

Aspects of human sciences not covered elsewhere in the curriculum.

Credit Hours: 1-3

Max credits per degree: 12

Campus:

Course Delivery: Classroom

EDAD

855

Teaching Learners to Learn

Crosslisted as *EDPS 855, NUTR 855, SPED 855, TEAC 855*

[LINK \(http://bulletin.unl.edu/courses/EDAD/855\)](http://bulletin.unl.edu/courses/EDAD/855)

Effective teachers facilitate student learning. Facilitating student learning depends on understanding learning principles and on designing instruction that is compatible with learning principles. Instructors can provide learning-compatible instruction that helps students learn more effectively and ultimately teaches them how to learn. Assists teachers to teach in learning-compatible ways and helps them embed within their curriculum a program for teaching learners to learn.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

948

Instructional Leadership: Emerging Trends and Practices

Crosslisted as *TEAC 948*

[LINK \(http://bulletin.unl.edu/courses/EDAD/948\)](http://bulletin.unl.edu/courses/EDAD/948)

Changing roles for persons engaged in instructional and curricular leadership in educational institutions. Literature on staff development, assessment and evaluation, and effective schools serve as the basis for studying and applying this information to a variety of educational settings. Issues such as teacher empowerment and site-based management, along with cooperative learning provide the focus of the activities.

Credit Hours: 3

Campus:

Course Delivery: Classroom

EDAD

991

Field Studies in Education

Crosslisted as *NUTR 991, TEAC 991*

[LINK \(http://bulletin.unl.edu/courses/EDAD/991\)](http://bulletin.unl.edu/courses/EDAD/991)

Prereqs:
Permission

Identification and solutions of problems associated with program planning; organizational, administrative, and instructional procedures within an institutional setting. Designing, implementing, and evaluating new or modified patterns of operation and teaching within a public school, postsecondary institution, or adult education agency.

Credit Hours: 1-3

Max credits per degree: 6

Campus:

Course Delivery: Classroom

EDPS

935**Seminar in Qualitative Research**Crosslisted as *TEAC 935*[LINK \(http://bulletin.unl.edu/courses/EDPS/935\)](http://bulletin.unl.edu/courses/EDPS/935)**Prereqs:****EDUC 900K** (<http://bulletin.unl.edu/courses/EDUC/900K>) or permission

Seminar intended for doctoral-level students who have completed an initial qualitative research methodology course and who want to increase their skills in qualitative research. Data collection and analysis strategies and the application of those strategies to research problems.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

EDPS

989**Psychology of Reading**Crosslisted as *TEAC 989*[LINK \(http://bulletin.unl.edu/courses/EDPS/989\)](http://bulletin.unl.edu/courses/EDPS/989)**Prereqs:****TEAC *811 or 841 or SPED 886**
(<http://bulletin.unl.edu/courses/SPED/886>)

Relationship of psychological processes of attention, perception, memory and problem solving to reading and reading comprehension. Theories and models of reading, especially of the comprehensive process, applied to all levels of reading from beginning reading through mature reading.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

ENGL

895A**Nebraska Writing Project Internship**Crosslisted as *TEAC 895A*[LINK \(http://bulletin.unl.edu/courses/ENGL/895A\)](http://bulletin.unl.edu/courses/ENGL/895A)**Prereqs:****Permission**

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL

992**Nebraska Humanities Project**Crosslisted as *TEAC 992*[LINK \(http://bulletin.unl.edu/courses/ENGL/992\)](http://bulletin.unl.edu/courses/ENGL/992)

Credit Hours:	1-24
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

ENGL

992B**Place Conscious Teaching**Crosslisted as *TEAC 992B*[LINK \(http://bulletin.unl.edu/courses/ENGL/992B\)](http://bulletin.unl.edu/courses/ENGL/992B)

Theory and practice of teaching writing, literature, and rhetoric in connection with local place, region, and community.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

MUED

450/850**American Cultural Perspectives through Popular Music and Guitar**Crosslisted as *MUNM 450, TEAC 450/850*[LINK \(http://bulletin.unl.edu/courses/MUED/450\)](http://bulletin.unl.edu/courses/MUED/450)

Exploration of the historical, social and cultural context of late 19th and 20th century America through learning to play jazz and popular music on the guitar to provide an authentic, performance-based encounter in music.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
ACE Outcomes:	5 [?] , 7 [?]
Groups:	Music Education (MUED)

MUED

Approaches to Middle School General Music

[LINK \(http://bulletin.unl.edu/courses/MUED/473\)](http://bulletin.unl.edu/courses/MUED/473)

473/873

Crosslisted as TEAC 873

Prereqs:

[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or permission.

For prospective new and experienced general music/middle school teachers. Characteristics of middle school students, materials, methodology, guitar and recorder techniques, and curriculum development.

Credit Hours:	3
Max credits per degree:	3
Course Delivery:	Classroom
Groups:	Music Education (MUED)

MUED

Historical and Philosophical Foundations of American Music Education

[LINK \(http://bulletin.unl.edu/courses/MUED/845\)](http://bulletin.unl.edu/courses/MUED/845)

845

Crosslisted as TEAC 845

Prereqs:

Undergraduate degree in MUED.

MUED 845 (http://bulletin.unl.edu/courses/MUED/845) is required for a graduate degree in music education.

Historical overview of American music education practices from the Singing School tradition to today. Major philosophical influences in American music education, writings regarding aesthetic education, equity, ethical practice, gender, meaning, and profundity. The writings of Stubley, Reimer, Mark, Gary, Hylton, Richmond and others are considered.

Credit Hours:	2-3
Max credits per degree:	3
Course Format:	Lecture
Course Delivery:	Classroom

SPED

Reading and Writing Disabilities: Adolescents

[LINK \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406)

406/806

Crosslisted as TEAC 806

Prereqs:

[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400), [800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800), [SPED 412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412), [812 \(http://bulletin.unl.edu/courses/SPED/812\)](http://bulletin.unl.edu/courses/SPED/812), and [TEAC 441 \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441) required for undergraduate students only). Parallel [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A), [806A \(http://bulletin.unl.edu/courses/SPED/806A\)](http://bulletin.unl.edu/courses/SPED/806A), and [806A \(http://bulletin.unl.edu/courses/SPED/806A\)](http://bulletin.unl.edu/courses/SPED/806A).

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Theory and techniques for assessing and teaching word identification, vocabulary, comprehension and writing skills in grades 7 to 12.

Credit Hours:	2
Course Format:	Lecture 2
Course Delivery:	Classroom

SPED

Reading Center Practicum II

[LINK \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

406A/806A

Crosslisted as TEAC 806A

Prereqs:

[SPED 400 \(http://bulletin.unl.edu/courses/SPED/400\)](http://bulletin.unl.edu/courses/SPED/400), [800 \(http://bulletin.unl.edu/courses/SPED/800\)](http://bulletin.unl.edu/courses/SPED/800), [412 \(http://bulletin.unl.edu/courses/SPED/412\)](http://bulletin.unl.edu/courses/SPED/412), [812 \(http://bulletin.unl.edu/courses/SPED/812\)](http://bulletin.unl.edu/courses/SPED/812), and [TEAC 441 \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441)

Credit Hours:	2
Course Format:	Lab 2
Course Delivery:	Classroom

(<http://bulletin.unl.edu/courses/TEAC/441>) required for undergraduate students only). Taken parallel with [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>)/806 (<http://bulletin.unl.edu/courses/SPED/806>).

This course is a prerequisite for: [SPED 406](http://bulletin.unl.edu/courses/SPED/406) (<http://bulletin.unl.edu/courses/SPED/406>)

[SPED 406A](http://bulletin.unl.edu/courses/SPED/406A) (<http://bulletin.unl.edu/courses/SPED/406A>)/806A (<http://bulletin.unl.edu/courses/SPED/806A>) requires two hours per week in a Reading Center.

Teaching and/or tutoring experience evaluating and instructing students with reading problems in a Reading Center. Assessment, instructional planning, delivery of instruction, writing diagnostic reports and parent communication.

SPED
886

Assessment, Evaluation, and Instruction of

Crosslisted as *TEAC 886*

[LINK \(http://bulletin.unl.edu/courses/SPED/886\)](http://bulletin.unl.edu/courses/SPED/886)

This course is a prerequisite for: [EDPS 989](http://bulletin.unl.edu/courses/EDPS/989) (<http://bulletin.unl.edu/courses/EDPS/989>)

*TEAC/SPED *886 includes case study and planning for special student populations.*

Analysis and use of informal and formal assessment and instructional strategies in clinic and classroom settings.

- A. Special Topics in Literacy Assessment (SPED *886A) (1–3 cr) Lec.
- B. Internship in Literacy Assessment and Instruction (SPED *886B) (1–3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

SPED
892

Special Topics in Education

Crosslisted as *EDAD 892, EDPS 892, CYAF 892, EDUC 892, TEAC 892*

[LINK \(http://bulletin.unl.edu/courses/SPED/892\)](http://bulletin.unl.edu/courses/SPED/892)

Prereqs:
[EDPS 859](http://bulletin.unl.edu/courses/EDPS/859) (<http://bulletin.unl.edu/courses/EDPS/859>) or parallel; [EDPS 859](http://bulletin.unl.edu/courses/EDPS/859) (<http://bulletin.unl.edu/courses/EDPS/859>) or equivalent

Aspects of education not covered elsewhere in the curriculum.

Credit Hours:	1–3
Max credits per degree:	12
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
402/802

Contemporary Children's Literature: Principles and Practices

[LINK \(http://bulletin.unl.edu/courses/TEAC/402\)](http://bulletin.unl.edu/courses/TEAC/402)

Prereqs:
[TEAC 302](http://bulletin.unl.edu/courses/TEAC/302) (<http://bulletin.unl.edu/courses/TEAC/302>) and successful completion of student teaching or permission.

Contemporary literature for children, all forms and genres; development of meaningful and creative learning activities for children; professional readings and research related to children's literature.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
408/808

Improvement of Instruction in School Mathematics

[LINK \(http://bulletin.unl.edu/courses/TEAC/408\)](http://bulletin.unl.edu/courses/TEAC/408)

Techniques, plans, and procedures for improving instruction in mathematics. Analysis of current instructional and supervisory practices. Evaluation of research and instructional materials. A. Primary: K–3 (3 cr) B. Elementary: 4–6 (3 cr) E. Secondary: 7–12 (3 cr) J. Special Topics (3 cr)

Credit Hours:	3
Max credits per degree:	12
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC
411

Reading Processes and Practices

[LINK \(http://bulletin.unl.edu/courses/TEAC/411\)](http://bulletin.unl.edu/courses/TEAC/411)

411/811

Overview of reading processes and programs with attention to strategies for comprehension and word identification, approaches, and materials. A. Teaching Reading (3 cr) B. Special Topics in Reading (1–6 cr)

Credit Hours:	3
Course Delivery:	Classroom

TEAC

413/813**Studies in Teaching English as a Second Language**[LINK \(http://bulletin.unl.edu/courses/TEAC/413\)](http://bulletin.unl.edu/courses/TEAC/413)

Preparation for teaching K–12 learners whose language of nurture is not English. A. ESL: Acquisition (1–3 cr) B. ESL: Teaching and Curriculum (1–3 cr) D. ESL: Assessment (1–3 cr) E. Special Topics in Teaching ESL (1–6 cr)

Credit Hours:	1–15
Max credits per degree:	15
Course Delivery:	Classroom

TEAC

413M/813M**Teaching English Language Learners (ELLs) in Content Areas**[LINK \(http://bulletin.unl.edu/courses/TEAC/413M\)](http://bulletin.unl.edu/courses/TEAC/413M)

TEAC 413M (http://bulletin.unl.edu/courses/TEAC/413M)/813M (http://bulletin.unl.edu/courses/TEAC/813M) is required for English Language Learner (ELL) certification.

Theory and pedagogy in the teaching of English Language Learners (ELLs) in course content areas at all levels of K–12 education. Identify and design linguistically and culturally responsive instruction for English learners in the disciplines (e.g. language arts, science, mathematics, social sciences).

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

413P/413X/813P**Teaching English Overseas**[LINK \(http://bulletin.unl.edu/courses/TEAC/413P\)](http://bulletin.unl.edu/courses/TEAC/413P)

Methodologies for teaching English to speakers of other languages (TESOL) in international settings.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom, Web

TEAC

416/816**Inclusive Early Childhood Methods**[LINK \(http://bulletin.unl.edu/courses/TEAC/416\)](http://bulletin.unl.edu/courses/TEAC/416)

Prereqs:
Admission to the Inclusive Early Childhood Teacher Education Program; FACS 270 (http://bulletin.unl.edu/courses/FACS/270), 270L (http://bulletin.unl.edu/courses/FACS/270L), 374 (http://bulletin.unl.edu/courses/FACS/374), and 374L (http://bulletin.unl.edu/courses/FACS/374L).

The creation and practice of developmentally appropriate instruction in curricular areas for K to 3rd grades. Role of the teacher and/or facilitator in relationship to the primary curriculum and learning environment. A. Literacy Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D \(http://bulletin.unl.edu/courses/TEAC/397D\)](http://bulletin.unl.edu/courses/TEAC/397D). B. Social Studies and Science Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel [TEAC 397D \(http://bulletin.unl.edu/courses/TEAC/397D\)](http://bulletin.unl.edu/courses/TEAC/397D). D. Mathematics Methods for the Primary Student: K to 3rd (3 cr) Prereq: Parallel Math 200.

Credit Hours:	3
Max credits per semester:	9
Course Format:	Lecture
Course Delivery:	Classroom

TEAC

418/818**Teaching Writing in the Elementary School**[LINK \(http://bulletin.unl.edu/courses/TEAC/418\)](http://bulletin.unl.edu/courses/TEAC/418)

Learning and teaching of writing with consideration given to developmental factors of children and adolescents.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Teaching Foreign Language in the Elementary School[LINK \(http://bulletin.unl.edu/courses/TEAC/420\)](http://bulletin.unl.edu/courses/TEAC/420)**420/820**

Theory, research and practice of most recent foreign language models and strategies.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Coordination in Occupational Training Programs[LINK \(http://bulletin.unl.edu/courses/TEAC/425\)](http://bulletin.unl.edu/courses/TEAC/425)**425/825**Crosslisted as *EDAD 825*

Foundation and scope of current and projected vocational cooperative education programs and general education work experience. Coordination techniques, selection and placement, instructional procedures, youth leadership activities, organization and administration, and evaluation of cooperative occupational education.

Credit Hours:	1-3
Course Delivery:	Classroom

TEAC

Introduction to Philosophy of Education[LINK \(http://bulletin.unl.edu/courses/TEAC/430\)](http://bulletin.unl.edu/courses/TEAC/430)**430/830**

Open to advanced undergraduates and graduate students

Fundamental ideas and skills that students can use to begin to form personal philosophical perspectives on education that can be justified intellectually, practically, and ethically. Using case studies of realistic school situations and the theoretical work of a range of writers in education, students explore conceptions of teaching, learning, curriculum, and the relationship between school and society.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Studies in the Foundations of Education[LINK \(http://bulletin.unl.edu/courses/TEAC/431\)](http://bulletin.unl.edu/courses/TEAC/431)**431/831**

Social and cultural analyses of curriculum, teaching, and education policy from disciplinary perspectives. A. The Anthropology of Education (3 cr) B. The History of Education (3 cr) E. The Sociology of Education (3 cr) J. Special Topics (3 cr)

Credit Hours:	3
Max credits per degree:	12
Course Delivery:	Classroom

TEAC

Higher Education in America[LINK \(http://bulletin.unl.edu/courses/TEAC/432\)](http://bulletin.unl.edu/courses/TEAC/432)**432/832**

Prereqs:
12 hrs education.

History and development of America's colleges and universities and recent trends and problems in higher education.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Comparative Education[LINK \(http://bulletin.unl.edu/courses/TEAC/433\)](http://bulletin.unl.edu/courses/TEAC/433)**433/833**

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

Comparative Education Survey[LINK \(http://bulletin.unl.edu/courses/TEAC/433A\)](http://bulletin.unl.edu/courses/TEAC/433A)**433A/833A**

Comparative Education investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'A' format is a survey course that considers examples from all over the world. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours:	3
Max credits per semester:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC

Comparative Education: Special Topics/Travel Study[LINK \(http://bulletin.unl.edu/courses/TEAC/433B\)](http://bulletin.unl.edu/courses/TEAC/433B)**433B/833B****Prereqs:
None**

This course could be taken more than once for additional credits assuming the student uses it for travel-study to different places. For example, a student could not visit South Korea twice with the same professor teaching the same syllabus, but could visit South Korea once (as one 3-hour course) and South Africa (as another 3-hour course).

Course investigates origins, goals, organization, challenges, and accomplishments of various countries' school systems with intentional comparisons to American practices. The 'B' format focuses on a single country (plus the U.S. for comparative purposes) and includes overseas travel-study (e.g., to South Korea, South Africa, or Chile) and visits to schools in the visited countries.

Credit Hours:	3
Max credits per semester:	3
Max credits per degree:	9
Course Format:	Field 3
Course Delivery:	Classroom

TEAC

Ethics and Education[LINK \(http://bulletin.unl.edu/courses/TEAC/434\)](http://bulletin.unl.edu/courses/TEAC/434)**434/834**

Open to advanced undergraduates and graduate students

Basic issues in ethics and education. Using theoretical material and case studies, students consider such ideas and issues as the nature of moral judgment, equality, justice, caring, and respect for persons, and discuss how educators might respond in ethically justifiable ways to difficult situations they may encounter.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Latin American Education[LINK \(http://bulletin.unl.edu/courses/TEAC/436\)](http://bulletin.unl.edu/courses/TEAC/436)**436/836**

Prereqs:
12 hours education, social sciences, or Latin American Studies; or permission.

Survey of contemporary practices and problems in Latin American education, with special emphasis on the role of education in the national development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC

Linguistics for the Classroom School Teacher[LINK \(http://bulletin.unl.edu/courses/TEAC/438\)](http://bulletin.unl.edu/courses/TEAC/438)**438/838**

Prereqs:
Admission to the Teacher Education Program.

Analysis of various aspects of linguistic study including dialects, usage, modern grammar, semantics, lexicography, etc., and their application in the K-12 school English classroom. Investigation and clarification of language concepts and the development of teaching materials that can be used in the

Credit Hours:	3
Course Delivery:	Classroom

classroom.

TEAC **Literature for Adolescents**

[LINK \(http://bulletin.unl.edu/courses/TEAC/439\)](http://bulletin.unl.edu/courses/TEAC/439)

439/839

Prereqs:
Admission to a Teacher Education Program.

Wide range of young adult literature available for use in schools. Critical and rhetorical tools for responding to a variety of literary texts and techniques for eliciting a wider range of responses to literature; consideration for readers aged 11–16.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Content Area Reading, Grades 4–12**

[LINK \(http://bulletin.unl.edu/courses/TEAC/441\)](http://bulletin.unl.edu/courses/TEAC/441)

441/841

This course is a prerequisite for: [SPED 406 \(http://bulletin.unl.edu/courses/SPED/406\)](http://bulletin.unl.edu/courses/SPED/406), [SPED 406A \(http://bulletin.unl.edu/courses/SPED/406A\)](http://bulletin.unl.edu/courses/SPED/406A)

Simultaneous teaching of academic content and functional teaching of reading in the content areas; assessment of comprehension, vocabulary/concept attainment; analyses of text; improvement of content area learning through reading/writing development.

Credit Hours:	3
Course Delivery:	Classroom

TEAC **Learning and Teaching Principles and Practices**

[LINK \(http://bulletin.unl.edu/courses/TEAC/451\)](http://bulletin.unl.edu/courses/TEAC/451)

451/851

Prereqs:
Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306 \(http://bulletin.unl.edu/courses/TEAC/306\)](http://bulletin.unl.edu/courses/TEAC/306) or [406 \(http://bulletin.unl.edu/courses/TEAC/406/806\)](http://bulletin.unl.edu/courses/TEAC/406/806) or [806 \(http://bulletin.unl.edu/courses/TEAC/806\)](http://bulletin.unl.edu/courses/TEAC/806). Investigates topics/issues impacting the teaching of art, including the theory and practice of discipline-based art education. Planning and incorporation of innovative approaches embracing the diversity of students. K. Career and Technical Education Prereq: As listed above. Procedures for writing, selecting and organizing subject matter for instruction. L. Methods of Teaching Information Technology (3 cr) Prereq: As listed above and [TEAC 259 \(http://bulletin.unl.edu/courses/TEAC/259\)](http://bulletin.unl.edu/courses/TEAC/259); parallel [TEAC 397L \(http://bulletin.unl.edu/courses/TEAC/397L\)](http://bulletin.unl.edu/courses/TEAC/397L) or [894L \(http://bulletin.unl.edu/courses/TEAC/894L\)](http://bulletin.unl.edu/courses/TEAC/894L). Objectives, teaching materials, and methods of presentation emphasizing the organization and management of computer science instruction. [IS]N. Secondary Language Arts (3 or 4 cr) Prereq: As listed above, including [ENGL 357 \(http://bulletin.unl.edu/courses/ENGL/357\)](http://bulletin.unl.edu/courses/ENGL/357), [377 \(http://bulletin.unl.edu/courses/ENGL/377\)](http://bulletin.unl.edu/courses/ENGL/377); and [TEAC 438 \(http://bulletin.unl.edu/courses/TEAC/438/838\)](http://bulletin.unl.edu/courses/TEAC/438/838) or [838 \(http://bulletin.unl.edu/courses/TEAC/838\)](http://bulletin.unl.edu/courses/TEAC/838); and grade average of "B" (3.0) or better in subject-area. Theoretical issues in the teaching and learning of writing, language, and literature. *O. Marketing Education Prereq: As listed above and [TEAC 452K \(http://bulletin.unl.edu/courses/TEAC/452K\)](http://bulletin.unl.edu/courses/TEAC/452K). Objectives, teaching materials, selection, and organization of subject matter, and methods of instruction and evaluation in marketing. [IS]P. Secondary Mathematics Prereq: As listed above. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners. [IS]R. Secondary Modern Languages Prereq: As listed above. Investigates issues in second language learning and teaching from the perspective of proficiency: contextualized practice in reading, writing, speaking, listening, and culture. Methodological approaches, review of research, testing guidelines, accuracy, the affective and cognitive needs of students, and the incorporation of authentic materials/language. [IS]V. Secondary Science Prereq: As listed above and parallel with [TEAC 397](http://bulletin.unl.edu/courses/TEAC/397)

Credit Hours:	3–4
Course Delivery:	Classroom

(<http://bulletin.unl.edu/courses/TEAC/397>). Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners. [IS]W. Secondary Social Science Prereq: As listed above. Theoretical issues in teaching and learning in the individual and integrated social sciences.

TEAC

451K/851K

Learning and Teaching Principles and Practices: Career and Technical Education [LINK \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K)

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Procedures for writing, selecting and organizing subject matter for instruction.

Credit Hours: 3-4

Course Delivery: Classroom

TEAC

451P/851P

Learning and Teaching Principles and Practices: Secondary Mathematics [LINK \(http://bulletin.unl.edu/courses/TEAC/451P\)](http://bulletin.unl.edu/courses/TEAC/451P)

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better.

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Innovative methodology and planning, teaching, and evaluating math lessons for diverse learners.

Credit Hours: 3-4

Course Delivery: Classroom

TEAC

451V/851V

Learning and Teaching Principles and Practices: [LINK \(http://bulletin.unl.edu/courses/TEAC/451V\)](http://bulletin.unl.edu/courses/TEAC/451V)

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with a 2.5 GPA or better. Parallel with [TEAC 397V \(http://bulletin.unl.edu/courses/TEAC/397V\)](http://bulletin.unl.edu/courses/TEAC/397V).

Theoretical issues in the area of teaching and learning as applied to the individual disciplines. Investigates issues in secondary science learning and teaching with emphasis on contextualized practice in each field as well as interdisciplinary approaches to planning, research, testing, laboratory safety, and the affective and cognitive needs of diverse learners.

Credit Hours: 3-4

Course Delivery: Classroom

TEAC

452/852

Curriculum Principles and Practices [LINK \(http://bulletin.unl.edu/courses/TEAC/452\)](http://bulletin.unl.edu/courses/TEAC/452)

Prereqs:

Admission to the Teacher Education Program; completion of 80 percent of subject-area course work with 2.5 GPA or better.

Focus on practical issues in the area of teaching and learning as applied to the individual disciplines. I. Secondary Art Prereq: As listed above and [TEAC 306 \(http://bulletin.unl.edu/courses/TEAC/306\)](http://bulletin.unl.edu/courses/TEAC/306) or [406 \(http://bulletin.unl.edu/courses/TEAC/406\)](http://bulletin.unl.edu/courses/TEAC/406)/806 (<http://bulletin.unl.edu/courses/TEAC/806>). Theory and research into curriculum incorporating technology, interdisciplinary approaches, active learning, and course content designed to enhance art understanding by students of diversity. J. Business Education Prereq: As listed above and [TEAC 451K \(http://bulletin.unl.edu/courses/TEAC/451K\)](http://bulletin.unl.edu/courses/TEAC/451K) and parallel with [TEAC 397I \(http://bulletin.unl.edu/courses/TEAC/397I\)](http://bulletin.unl.edu/courses/TEAC/397I). Objectives, teaching materials, selection and organization of subject matter, and methods of

Credit Hours: 2-3

Course Delivery: Classroom

instruction and evaluation in business subjects. M. Industrial Education Prereq: As listed above and [TEAC 451K](http://bulletin.unl.edu/courses/TEAC/451K) (<http://bulletin.unl.edu/courses/TEAC/451K>) and parallel [TEAC 397M](http://bulletin.unl.edu/courses/TEAC/397M) (<http://bulletin.unl.edu/courses/TEAC/397M>). Objectives, curricula, methodology, evaluation, planning, classroom management and course organization. [IS]N. Secondary Language Arts Prereq: As listed above and parallel with [TEAC 397](http://bulletin.unl.edu/courses/TEAC/397) (<http://bulletin.unl.edu/courses/TEAC/397>). Planning, teaching, and evaluating language arts lessons for diverse learners. P. Secondary Mathematics Prereq: As listed above and [TEAC 451P](http://bulletin.unl.edu/courses/TEAC/451P) (<http://bulletin.unl.edu/courses/TEAC/451P>)/[851P](http://bulletin.unl.edu/courses/TEAC/851P) (<http://bulletin.unl.edu/courses/TEAC/851P>) with a grade of "C+" or better. Conceptualizing the 7–12 curriculum through multimedia and active, discovery learning. [IS]R. Secondary Modern Languages Prereq: As listed above. Second–language acquisition and learning theory and their relationship to curriculum planning and development. Practice in creative language–use activities designed to build second language reading, writing, speaking, listening, and culture skills. Development of teacher as observer, reflector, and recorder of individual student needs. [IS]V. Secondary Science Prereq: As listed above and [TEAC 451V](http://bulletin.unl.edu/courses/TEAC/451V) (<http://bulletin.unl.edu/courses/TEAC/451V>)/[851V](http://bulletin.unl.edu/courses/TEAC/851V) (<http://bulletin.unl.edu/courses/TEAC/851V>). Curricular materials, including the application of technology, as they relate to classroom instruction with diverse populations. [IS]W. Secondary Social Science Prereq: As listed above. Societal diversity and its impact on the 7–12 social science curriculum, regional and national curricular trends, and emerging theory and research in social studies education.

TEAC **The Middle Level Professional Methods**
453/853

[LINK \(http://bulletin.unl.edu/courses/TEAC/453\)](http://bulletin.unl.edu/courses/TEAC/453)

Prereqs:
Admission to the Teacher Education Program.

Development of competence in planning, teaching, classroom management and assessment. Covers the scope, content, and organization of curriculum and instructional materials. I. Art (2 cr) N. Language Arts (2 cr) P. Mathematics (2 cr) T. Reading (2 cr) V. Science (2 cr) W. Social Science (2 cr)

Credit Hours:	1–12
Max credits per semester:	12
Course Delivery:	Classroom

TEAC **Literature in Education**
454/854

[LINK \(http://bulletin.unl.edu/courses/TEAC/454\)](http://bulletin.unl.edu/courses/TEAC/454)

Comparative analyses of literature and the role of the reader as meaning maker in educational settings. A. Literary Response and Analysis (3 cr) B. Multiethnic Literature for Children and Adolescents (3 cr) E. Special Topics (3 cr)

Credit Hours:	3–9
Max credits per semester:	9
Course Format:	Lecture
Course Delivery:	Classroom

TEAC **Teaching with Technology**
480/880

[LINK \(http://bulletin.unl.edu/courses/TEAC/480\)](http://bulletin.unl.edu/courses/TEAC/480)

Survey and analysis of the application of technology to improve teaching. Research and related literature on learning, teaching and curriculum, and the critical application of technology and the development of teaching strategies. A. Survey of Instructional Technology (1–3 cr) B. Designing Instructional Technology K–12 (1–3 cr) E. Instructional Technology in Mathematics (1–3 cr) J. Instructional Technology in Language Arts (1–3 cr) K. Instructional Technology in Science (1–3 cr) L. Instructional Technology in Social Sciences (1–3 cr) M. Technology Supported Assessment and Evaluation (1–3 cr) N. Web Teaching (1–3 cr) P. Special Topics (1–3 cr)

Credit Hours:	1–3
Max credits per semester:	15
Course Delivery:	Classroom

TEAC **Instructional Applications of Computers–Practicum**
482/882

[LINK \(http://bulletin.unl.edu/courses/TEAC/482\)](http://bulletin.unl.edu/courses/TEAC/482)

Prereqs:
Permission.

A task-oriented practicum in instructional application of computer to provide an opportunity for repetition and/or demonstration of fundamental practice skills. Combines discussion and demonstration with supervised task-centered field experiences.

Credit Hours:	2-3
Course Delivery:	Classroom

TEAC
495/895

Independent Study

[LINK \(http://bulletin.unl.edu/courses/TEAC/495\)](http://bulletin.unl.edu/courses/TEAC/495)

Credit Hours:	1-6
Course Delivery:	Classroom

TEAC
496/896

Problems in Secondary Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/496\)](http://bulletin.unl.edu/courses/TEAC/496)

Prereqs:
Permission.

Opportunities for experienced teachers and administrators to develop plans, procedures, or experiments directed to the improvement of the curriculum or administration of the secondary school.

Credit Hours:	1-6
Course Delivery:	Classroom

TEAC
498/898

Problems in Elementary Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/498\)](http://bulletin.unl.edu/courses/TEAC/498)

Prereqs:
Permission.

Opportunities to develop plans, procedures, experiments, and models directed to the improvement of elementary school education on an independent study basis.

Credit Hours:	2-3
Course Delivery:	Classroom

TEAC
800

Inquiry into Teaching and Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800)

This course is a prerequisite for: [TEAC 888 \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Contemporary educational research from multiple theoretical perspectives.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
801

Curriculum Inquiry

[LINK \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801)

The relationship between curriculum theory and/or research to educational practices.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
803

Student Teaching Internship Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

Prereqs:
Parallel [TEAC 897 \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)

Credit Hours:	1-2
Campus:	

Analysis of school programs with attention to teacher certification, teacher/student rights/responsibilities, proper conduct of teachers, selected legal aspects of education, methods of communicating with parents and community members, and current issues.

A. Elementary (K-6) (1-2 cr) Parallel [TEAC 897A](#)

(<http://bulletin.unl.edu/courses/TEAC/897A>).

B. Elementary Art (1-2 cr) Parallel [TEAC 897B](#)

(<http://bulletin.unl.edu/courses/TEAC/897B>).

G. Elementary Foreign Language (1-2 cr) Parallel [TEAC 897G](#)

(<http://bulletin.unl.edu/courses/TEAC/897G>).

I. Secondary Art (1-2 cr) Parallel [TEAC 897I](#)

(<http://bulletin.unl.edu/courses/TEAC/897I>).

N. Secondary Language Arts (1-2 cr) Parallel [TEAC 897N](#)

(<http://bulletin.unl.edu/courses/TEAC/897N>).

P. Secondary Mathematics (1-2 cr) Parallel [TEAC 897P](#)

(<http://bulletin.unl.edu/courses/TEAC/897P>).

Q. Middle School (1-2 cr) Parallel [TEAC 897Q](#)

(<http://bulletin.unl.edu/courses/TEAC/897Q>).

R. Secondary Modern Language (1-2 cr) Parallel [TEAC 897R](#)

(<http://bulletin.unl.edu/courses/TEAC/897R>).

V. Secondary Science (1-2 cr) Parallel [TEAC 897V](#)

(<http://bulletin.unl.edu/courses/TEAC/897V>).

W. Secondary Social Science (1-2 cr) Parallel [TEAC 897W](#)

(<http://bulletin.unl.edu/courses/TEAC/897W>).

Y. Mainstreaming (1-2 cr) Parallel [TEAC 897Y](#)

(<http://bulletin.unl.edu/courses/TEAC/897Y>).

Z. Multicultural (1-2 cr) Parallel [TEAC 897Z](#)

(<http://bulletin.unl.edu/courses/TEAC/897Z>).

Course Delivery: Classroom

TEAC **805** Advanced Teaching Strategies

Crosslisted as *ALEC 805, NUTR 806*

[LINK \(http://bulletin.unl.edu/courses/TEAC/805\)](http://bulletin.unl.edu/courses/TEAC/805)

This course is a prerequisite for: [ALEC 400 \(http://bulletin.unl.edu/courses/ALEC/400\)](http://bulletin.unl.edu/courses/ALEC/400)

Contemporary and innovative teaching strategies, emphasizing learner-centered instruction, suitable to teaching in college and postsecondary institutions, outreach programs public schools, and other settings. Students participate in active learning as they apply learning theory in practice, prepare and demonstrate teaching methods, and plan for instruction in discipline areas of their choice.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC **812** Improvement of Instruction in Elementary School Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/812\)](http://bulletin.unl.edu/courses/TEAC/812)

Prereqs:

12 hrs education including [TEAC 315](#) (<http://bulletin.unl.edu/courses/TEAC/315>) or permission; teaching experience or student teaching

Techniques, plans, and procedures for improving instruction in elementary school science. Current practices, issues, and trends; evaluation of instructional materials.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC **813J** Intercultural Communication

[LINK \(http://bulletin.unl.edu/courses/TEAC/813J\)](http://bulletin.unl.edu/courses/TEAC/813J)

Introduction to intercultural communication and the theoretical and methodological tools needed to understand the tenets and implications of intercultural communication for application in personal and professional practices. Readings will deal with misunderstandings and the impact of cultural factors on the making of meaning, as well as discrimination and the impact of unequal power relations on communication, media impact in a globalized world, language, identity and communication, and intercultural competence.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

TEAC
817

Emerging Reading and Language

[LINK \(http://bulletin.unl.edu/courses/TEAC/817\)](http://bulletin.unl.edu/courses/TEAC/817)

Prereqs:
Elementary endorsement

Research, theory and practice associated with literacy development in children from birth to age 8. Language and concept development, emerging reading and writing behaviors, appropriate materials and evaluation within a holistic view teaching and learning.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
822

Principles and Practices in Social Studies Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/822\)](http://bulletin.unl.edu/courses/TEAC/822)

Current issues and trends in the curriculum and teaching of social studies.
A. Special Topics (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
828

Improvement of Instruction in Industrial Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/828\)](http://bulletin.unl.edu/courses/TEAC/828)

Special contemporary curricular and teaching aspects of industrial education. Research, curriculum content, teaching strategies, and the application to the instructional setting.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
833

Comparative Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/833\)](http://bulletin.unl.edu/courses/TEAC/833)

Foundations, trends, and problems of selected national systems of education as seen in cultural perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
835

Ethnic Minorities and American Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/835\)](http://bulletin.unl.edu/courses/TEAC/835)

Chronological entry of European immigrant groups into an American society during the formative years of the development of the American public school system. Record of American social and educational history is replete with examples of inter- and intra-group human conflict as each immigrant group attempted to carve out its niche in a New World setting during a period of mass migration from Europe. Historical, sociological, and psychological barriers that became inherent during a dynamic period of nation building.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
840

Culture and Schooling

[LINK \(http://bulletin.unl.edu/courses/TEAC/840\)](http://bulletin.unl.edu/courses/TEAC/840)

Description and explanation of cultural values as they relate to education.
A. Gender (1-3 cr)
B. Gender and Science (1-3 cr)
D. Special Topics (1-6 cr)
E. Rural Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
842

Objectives and Methods of Science Teaching

[LINK \(http://bulletin.unl.edu/courses/TEAC/842\)](http://bulletin.unl.edu/courses/TEAC/842)

This course is a prerequisite for: [TEAC 924 \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Development of objectives, course offerings, and organization of subject matter and methods of instruction in science courses. Current national science education curriculum trends.

- A. Elementary
- B. Middle School
- D. Secondary and Community College
- E. Special Topics (1–6 cr)

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

TEAC
844

School Media Programs

[LINK \(http://bulletin.unl.edu/courses/TEAC/844\)](http://bulletin.unl.edu/courses/TEAC/844)

Role of the media specialist as a member of the instructional team.

- A. Administration (3 cr)
- B. Reference (3 cr)
- D. Cataloguing (3 cr)
- E. Selection (3 cr)
- J. Special Topics in School Media

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

TEAC
846

Studies in Middle Level Schooling

[LINK \(http://bulletin.unl.edu/courses/TEAC/846\)](http://bulletin.unl.edu/courses/TEAC/846)

Historical development, philosophy, and current literature of the middle school.

- A. Curriculum (1–3 cr, max 3)
- B. Leadership (1–3 cr, max 3)
- D. Teacher–Based Advisory (1–3 cr, max 3)
- E. Special Topics (1–3 cr, max 9)

Credit Hours:	1–9
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC
847

Principles of Business Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/847\)](http://bulletin.unl.edu/courses/TEAC/847)

Principles, philosophy, historical development, and emerging role of business education in America. Current issues in business education, resource development, examination of learning theories, and needs assessment.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
848

Introduction to Curriculum Studies

[LINK \(http://bulletin.unl.edu/courses/TEAC/848\)](http://bulletin.unl.edu/courses/TEAC/848)

Historical development and philosophy of high school curricula. Review of research on schooling, curriculum trends, and school organizational structures.

- A. Elementary Schools
- B. Middle Schools
- D. Secondary Schools
- E. Special Topics in Curriculum (1–6 cr)

Credit Hours:	1–3
Campus:	
Course Delivery:	Classroom

TEAC
849

Studies in Assessment and Leadership for Learning

[LINK \(http://bulletin.unl.edu/courses/TEAC/849\)](http://bulletin.unl.edu/courses/TEAC/849)

Preparation for assessing K–12 learners and leading K–12 Teacher Learning Communities.

Credit Hours:	6
Max credits per degree:	18

- A. Classroom Assessment (3 cr)
- B. Large-scale Assessment (3 cr)
- E. Leadership in Assessment (3 cr)
- J. Leading Classroom Assessment (3 cr)
- K. Special Topics in Assessment and Leadership for Learning (3 or 6 cr, max 6)

Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
857B

Nebraska Writing Project

Crosslisted as *ENGL 857B*

[LINK \(http://bulletin.unl.edu/courses/TEAC/857B\)](http://bulletin.unl.edu/courses/TEAC/857B)

Topics in writing instruction, explored via the National Writing Project Institute model, for K-12 and college teachers of writing in all curricular areas.

Credit Hours:	1-3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
858

Utilization of Modern Technology

[LINK \(http://bulletin.unl.edu/courses/TEAC/858\)](http://bulletin.unl.edu/courses/TEAC/858)

Strategies of incorporating modern technology into the professional workplace; provides a thorough understanding of the operation and evaluation of integrating technology into the curriculum.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
859

Instructional Message Design

[LINK \(http://bulletin.unl.edu/courses/TEAC/859\)](http://bulletin.unl.edu/courses/TEAC/859)

Using selected principles from behavior science (perception, memory, attitudes, concepts), students analyze and design instructional messages. Systematic process for instructional development.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
860

Production and Utilization of Instructional Materials

[LINK \(http://bulletin.unl.edu/courses/TEAC/860\)](http://bulletin.unl.edu/courses/TEAC/860)

This course is meant to be taken after and in sequence with TEAC *859. Unique characteristics and contributions of selected instructional media and technologies to the teaching/learning and communication processes. Students produce materials for specific instructional messages.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
861

Education for a Pluralistic Society: Foundation and Issues

[LINK \(http://bulletin.unl.edu/courses/TEAC/861\)](http://bulletin.unl.edu/courses/TEAC/861)

Educational practices and policies for people from historically oppressed groups in the United States Foundation of multicultural education. Discussion of contemporary educational issues within the context of multicultural and cultural diversity. Critique of curricular materials and resources promoting a multicultural perspective.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
881

Music in Early Childhood Education

Crosslisted as *MUED 881*

[LINK \(http://bulletin.unl.edu/courses/TEAC/881\)](http://bulletin.unl.edu/courses/TEAC/881)

Prereqs:
[MUED 344 \(http://bulletin.unl.edu/courses/MUED/344\)](http://bulletin.unl.edu/courses/MUED/344) or [370 \(http://bulletin.unl.edu/courses/MUED/370\)](http://bulletin.unl.edu/courses/MUED/370) or permission

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

Prepares the teacher of the young child (3–8 years) in the musical skills, methodology, and materials needed to carry out a successful program of music in the public and private schools, the nursery schools, and day-care centers.

TEAC

887

Effecting High School Improvement

[LINK \(http://bulletin.unl.edu/courses/TEAC/887\)](http://bulletin.unl.edu/courses/TEAC/887)

The relationships and interactions among the high school student, a teacher, and the curriculum to the issues of school district, higher education, philanthropy, state department of education, and federal involvement in high school improvement efforts. The imperative and challenges for improving high schooling for all students.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

TEAC

888

Teacher as Scholarly Practitioner

[LINK \(http://bulletin.unl.edu/courses/TEAC/888\)](http://bulletin.unl.edu/courses/TEAC/888)

Prereqs:

[TEAC 800 \(http://bulletin.unl.edu/courses/TEAC/800\)](http://bulletin.unl.edu/courses/TEAC/800) and [801 \(http://bulletin.unl.edu/courses/TEAC/801\)](http://bulletin.unl.edu/courses/TEAC/801), or permission

Seminar on the principles of practitioner inquiry and development of a proposal for an inquiry project.
A. Special Topics in Inquiry

Credit Hours:	1–3
Max credits per degree:	3
Campus:	
Course Delivery:	Classroom

TEAC

889

Masters Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/889\)](http://bulletin.unl.edu/courses/TEAC/889)

Prereqs:

Permission

Working with a faculty mentor on either an individual or small-group basis, the student plans, conducts, and reports a summative work project.

Credit Hours:	1–3
Max credits per degree:	9
Campus:	
Course Delivery:	Classroom

TEAC

890

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/890\)](http://bulletin.unl.edu/courses/TEAC/890)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC

893

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/893\)](http://bulletin.unl.edu/courses/TEAC/893)

Refer to Workshop Seminars in Education under the "Education" section of this bulletin.

Campus:	
Course Delivery:	Classroom

TEAC

894

Professional Practicum Experiences

[LINK \(http://bulletin.unl.edu/courses/TEAC/894\)](http://bulletin.unl.edu/courses/TEAC/894)

Prereqs:

Admission to Teacher Education Program

TEAC *894 does not count toward the MA or MEd degree. P/N only. Guided observations and/or clinical experiences in schools and/or agencies offering programs for children/youth.

Credit Hours:	1–10
Max credits per degree:	10
Course Format:	Field
Campus:	

- A. Elementary (K-6) (1-10 cr)
- B. Elementary Art (1-10 cr)
- E. English as a Second Language (1-10 cr)
- G. Elementary Foreign Language (1-10 cr)
- I. Secondary Art (1-10 cr)
- J. Business Education (1-10 cr)
- L. Information Technology (1-10 cr, max 10)
- M. Industrial Education (1-10 cr)
- N. Secondary Language Arts (1-10 cr)
- O. Marketing Education (1-10 cr)
- P. Secondary Mathematics (1-10 cr)
- Q. Middle School (1-10 cr)
- R. Secondary Modern Language (1-10 cr)
- T. Reading (1-10 cr)
- V. Secondary Science (1-10 cr)
- W. Secondary Social Science (1-10 cr)
- Y. Mainstreaming (1-10 cr)
- Z. Multicultural (1-10 cr)

Course Delivery: Classroom

TEAC **Student Teaching Internship**

897

[LINK \(http://bulletin.unl.edu/courses/TEAC/897\)](http://bulletin.unl.edu/courses/TEAC/897)

Prereqs:
Admission by application only

Credit Hours: 1-10
Course Delivery: Classroom

This course is a prerequisite for: [TEAC 803 \(http://bulletin.unl.edu/courses/TEAC/803\)](http://bulletin.unl.edu/courses/TEAC/803)

(See "Admission to Student Teaching" in the UNL Undergraduate Bulletin.)
 This course will not count towards the MA or MEd degree. P/N only.
 Supervised teaching experience in schools.

- A. Elementary (K-6)
- B. Elementary Art
- E. English as a Second Language
- D. Elementary Physical Education
- G. Elementary Foreign Language
- I. Secondary Art
- J. Business Education
- K. Health
- M. Industrial Education
- N. Secondary Language Arts
- P. Secondary Mathematics
- Q. Middle School
- R. Secondary Modern Language
- U. Secondary Physical Education
- V. Secondary Science
- W. Secondary Social Science
- Y. Mainstreaming
- Z. Multicultural

TEAC **Masters Thesis**

899

[LINK \(http://bulletin.unl.edu/courses/TEAC/899\)](http://bulletin.unl.edu/courses/TEAC/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours: 6-10
Campus:
Course Delivery: Classroom

TEAC **Supervision and Administration in Vocational Education**

901

[LINK \(http://bulletin.unl.edu/courses/TEAC/901\)](http://bulletin.unl.edu/courses/TEAC/901)

For course description, see [ALEC 901 \(http://bulletin.unl.edu/courses/ALEC/901\)](http://bulletin.unl.edu/courses/ALEC/901).

Credit Hours: 1-3
Course Format: Lecture
Campus:
Course Delivery: Classroom

TEAC
902

Colloquium in Educational Policy and Practice

[LINK \(http://bulletin.unl.edu/courses/TEAC/902\)](http://bulletin.unl.edu/courses/TEAC/902)

Educational policy and practice and their interconnection.
A. Special Topics in Educational Policy and Practice (1– 3 cr)

Credit Hours:	1–3
Max credits per degree:	6
Campus:	
Course Delivery:	Classroom

TEAC
903

Current Trends in the Education of Young Children

[LINK \(http://bulletin.unl.edu/courses/TEAC/903\)](http://bulletin.unl.edu/courses/TEAC/903)

Participation in special problems of teachers in service. Guidance, evaluations, research.

Credit Hours:	2–3
Campus:	
Course Delivery:	Classroom

TEAC
905

Practicum in Postsecondary Teaching

Crosslisted as *ALEC 905*

[LINK \(http://bulletin.unl.edu/courses/TEAC/905\)](http://bulletin.unl.edu/courses/TEAC/905)

Prereqs:
ALEC *805 or permission

Work with a faculty mentor in a discipline of choice and an instructional supervisor to prepare instruction and teach students in a postsecondary setting. Practicum students are assisted in arranging for the practicum and are provided consultation and feedback during the practicum. Lesson planning and reflective papers are part of the practicum experience.

Credit Hours:	1–3
Course Format:	Lab
Campus:	
Course Delivery:	Classroom

TEAC
907

Seminar in Elementary School Mathematics

[LINK \(http://bulletin.unl.edu/courses/TEAC/907\)](http://bulletin.unl.edu/courses/TEAC/907)

Prereqs:
TEAC 808 (<http://bulletin.unl.edu/courses/TEAC/808>) or equivalent

Theories, literature, and research procedures relative to elementary mathematics education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
908

Seminar in Teacher Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/908\)](http://bulletin.unl.edu/courses/TEAC/908)

Overview of literature and scholarship in teacher education.
A. Supervision of Pre–service Teachers (1–3 cr)
B. Teacher Development (3 cr)
D. Initial Teacher Preparation (1–3 cr)
E. Special Topics in Teacher Education (1–3 cr)

Credit Hours:	1–12
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
911

Seminar in Elementary School Science

[LINK \(http://bulletin.unl.edu/courses/TEAC/911\)](http://bulletin.unl.edu/courses/TEAC/911)

Prereqs:
12 hrs laboratory science including courses in both physical and biological fields; TEAC 403 (<http://bulletin.unl.edu/courses/TEAC/403>) or 804 (<http://bulletin.unl.edu/courses/TEAC/804>) or equivalent; teaching experience

Literature which deals with research and experimentation in science for the elementary school. Aspects of the teaching and supervision of elementary

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

school science that require investigation and research.

TEAC
920

Seminar in Curriculum and Teaching of Career and Technical Education [LINK \(http://bulletin.unl.edu/courses/TEAC/920\)](http://bulletin.unl.edu/courses/TEAC/920)

Current research and theory within the curriculum and teaching of career and technical education.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
921

Seminar in Literacy Studies [LINK \(http://bulletin.unl.edu/courses/TEAC/921\)](http://bulletin.unl.edu/courses/TEAC/921)

Research in literacy and schooling.
A. Curriculum and Teaching (3 cr)
B. Special Topics (1-3 cr)
D. Language, Culture, and Education (1-3 cr)

Credit Hours:	1-3
Max credits per degree:	9
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

TEAC
922

Seminar in the Learning and Teaching of Foreign Languages [LINK \(http://bulletin.unl.edu/courses/TEAC/922\)](http://bulletin.unl.edu/courses/TEAC/922)

Prereqs:
Undergraduate teaching major in a foreign language and teaching experience in a foreign language

Critical review and evaluation of current literature, research and theory.
A. Reading in the Foreign Language Classroom (1-3 cr, max 3)
B. Writing in the Foreign Language Classroom (1-3 cr, max 3)
D. Listening in the Foreign Language Classroom (1-3 cr, max 3)
E. Speaking in the Foreign Language Classroom (1-3 cr, max 3)
J. Planning in the Foreign Language Classroom (1-3 cr, max 3)
K. Technology-Enhanced Language Instruction (1-3 cr, max 3)

Credit Hours:	1-21
Max credits per degree:	21
Campus:	
Course Delivery:	Classroom

TEAC
923

Seminar in the Curriculum and Teaching of Secondary School Mathematics [LINK \(http://bulletin.unl.edu/courses/TEAC/923\)](http://bulletin.unl.edu/courses/TEAC/923)

Prereqs:
Undergraduate teaching major and teaching experience in mathematics

Critical evaluation of current literature, yearbooks, research, and experiments in the curriculum and teaching of mathematics.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
924

Seminar in the Curriculum and Teaching of Science [LINK \(http://bulletin.unl.edu/courses/TEAC/924\)](http://bulletin.unl.edu/courses/TEAC/924)

Prereqs:
Undergraduate teaching major and teaching experience in science, and TEAC 842 (<http://bulletin.unl.edu/courses/TEAC/842>) and EDPS 859 (<http://bulletin.unl.edu/courses/EDPS/859>)

Exploration of current literature, yearbooks, research, and experiments in the curriculum and teaching of science.
A. Elementary
B. Middle School
D. Secondary
E. Inclusive Science Teaching
J. Special Topics (1-6 cr)

Credit Hours:	1-3
Campus:	
Course Delivery:	Classroom

TEAC
925

Seminar in the Curriculum and Teaching of Social Sciences

[LINK \(http://bulletin.unl.edu/courses/TEAC/925\)](http://bulletin.unl.edu/courses/TEAC/925)

Current research and literature in social sciences education.

- A. Elementary (1-3 cr)
- B. Middle School (1-3 cr)
- D. Secondary (1-3 cr)
- E. Great Plains Studies (1-3 cr)
- G. Special Topics in Social Sciences (1-3 cr)

Credit Hours:	3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

TEAC
929

Seminar in Individualized Instruction for Gifted, Talented, and Creative Students

[LINK \(http://bulletin.unl.edu/courses/TEAC/929\)](http://bulletin.unl.edu/courses/TEAC/929)

Nature of curricular and instructional programs and practices for gifted, talented, and creative students in elementary and secondary schools. Range of learner outcomes, identification of instructional principles, personalizing instruction for this group of learners.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
930

Sociological/Anthropological Research Methods in Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/930\)](http://bulletin.unl.edu/courses/TEAC/930)

Crosslisted as *EDPS 930*, *CYAF 930*, *NUTR 930*

Empirical and theoretical research into the sociocultural problems and the lived experiences of people across educational, family and community settings.

- A. Ethnographic Methods (1-3 cr, max 3)
- B. Special Topics in Qualitative and/or Quantitative Research Methods (1-3 cr, max 3)
- D. Discourse Analysis Across School, Home and Community Settings (1-3 cr, max 3)
- E. Introduction to Linguistic Analysis of Classroom Interaction (1-3 cr, max 3)
- J. Hermeneutic Traditions in Education (1-3 cr, max 3)
- K. Quantitative Research Traditions in Education (1-3 cr, max 3)

Credit Hours:	1-3
Max credits per degree:	15
Campus:	
Course Delivery:	Classroom

TEAC
931

Research in the History of Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/931\)](http://bulletin.unl.edu/courses/TEAC/931)

Historical research methods in education culminating in the research and writing of a historical article as publication report.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

TEAC
932

Contract Studies in International Education

[LINK \(http://bulletin.unl.edu/courses/TEAC/932\)](http://bulletin.unl.edu/courses/TEAC/932)

Prereqs:
Permission

Student proposed course of studies in international education: may include field experiences, individual/group research, participation in mini-seminars, etc.

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

TEAC
936

Seminar in College Teaching

[LINK \(http://bulletin.unl.edu/courses/TEAC/936\)](http://bulletin.unl.edu/courses/TEAC/936)

Credit Hours: 1-3

Max credits per degree: 3

Campus:

Course Delivery: Classroom

TEAC
937 **Philosophy of Science and Educational Research**

[LINK \(http://bulletin.unl.edu/courses/TEAC/937\)](http://bulletin.unl.edu/courses/TEAC/937)

Major themes in philosophy of science and relates these to conceptions of research on human beings and social institutions, particularly as this is applied to schooling. Students consider such fundamental issues as whether educational research is a science, the form and purpose of educational research, and what research might imply for practice.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
944 **Seminar in Curriculum Studies**

[LINK \(http://bulletin.unl.edu/courses/TEAC/944\)](http://bulletin.unl.edu/courses/TEAC/944)

Critical examination of issues in curriculum development with an analysis of research and literature on the subject.

- A. Curriculum as Aesthetic Text (1-3 cr)
- B. Special Topics in Curriculum (1-3 cr)
- D. Curriculum Evaluation (1-3 cr)
- E. Curriculum as Spatial Text (1-3 cr)

Credit Hours: 1-3

Max credits per degree: 15

Campus:

Course Delivery: Classroom

TEAC
946 **Instructional Improvement and Decision Making**

[LINK \(http://bulletin.unl.edu/courses/TEAC/946\)](http://bulletin.unl.edu/courses/TEAC/946)

Study and application of teaching models and techniques based on research, theory, and exemplary practice.

- A. Instructional Assessment
- B. Special Topics in Instruction

Credit Hours: 1-3

Campus:

Course Delivery: Classroom

TEAC
949 **Seminar in Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/949\)](http://bulletin.unl.edu/courses/TEAC/949)

Critical analysis of literature and research on teaching, learning, and schooling.

- A. Special Topics in Education (1-3 cr)

Credit Hours: 1-3

Max credits per degree: 9

Campus:

Course Delivery: Classroom

TEAC
950 **Contextual Research in English/Language Arts**

[LINK \(http://bulletin.unl.edu/courses/TEAC/950\)](http://bulletin.unl.edu/courses/TEAC/950)

Uses of qualitative research in English language arts; interpreting, planning, conducting, and reporting contextual research results.

Credit Hours: 3

Campus:

Course Delivery: Classroom

TEAC
951 **Seminar in Reading Education**

[LINK \(http://bulletin.unl.edu/courses/TEAC/951\)](http://bulletin.unl.edu/courses/TEAC/951)

Scholarship in reading education, including the nature, results and implications of past and present research and non-research and

Credit Hours: 3-9

Max credits per degree: 9

contributions of historically significant scholars in the field of reading.
A. Research in Reading Education (3 cr)
B. Special Topics (1–6 cr, 6 max)

Campus:
Course Delivery: Classroom

TEAC
952 **Language and Learning**

[LINK \(http://bulletin.unl.edu/courses/TEAC/952\)](http://bulletin.unl.edu/courses/TEAC/952)

Role that language plays in empowering and constraining children as they attempt to make sense of their world. Consideration of application of language scholarship for general instruction.

Credit Hours: 3
Campus:
Course Delivery: Classroom

TEAC
953 **Seminar on Writing in the Curriculum**

[LINK \(http://bulletin.unl.edu/courses/TEAC/953\)](http://bulletin.unl.edu/courses/TEAC/953)

Writing development, writing instruction, and the use of writing in the content areas. Consideration of application of scholarship in writing for general learning and instruction.

Credit Hours: 3
Course Format: Lecture 3
Course Delivery: Classroom

TEAC
957B **Nebraska Writing Project**

Crosslisted as *ENGL 957B*

[LINK \(http://bulletin.unl.edu/courses/TEAC/957B\)](http://bulletin.unl.edu/courses/TEAC/957B)

Summer institute for K–12 and college teachers of writing in all curricular areas, taught on the National Writing Project model.

Credit Hours: 6
Course Format: Lecture 6
Campus:
Course Delivery: Classroom

TEAC
959 **Portfolio in Instructional Technology Competencies**

[LINK \(http://bulletin.unl.edu/courses/TEAC/959\)](http://bulletin.unl.edu/courses/TEAC/959)

Prereqs:
Permission

No more than six credits of [TEAC 959](http://bulletin.unl.edu/courses/TEAC/959) (<http://bulletin.unl.edu/courses/TEAC/959>) may be counted towards a masters degree. Portfolio components represent a significant contribution to the solution of an instructional problem and reflect broadly the major competencies of instructional technology: problem definition, learner analysis, media selection and message design, production, and evaluation.

Credit Hours: 1–12
Campus:
Course Delivery: Classroom

TEAC
960 **Topical Seminar in Instructional Technology**

[LINK \(http://bulletin.unl.edu/courses/TEAC/960\)](http://bulletin.unl.edu/courses/TEAC/960)

Prereqs:
Permission

Critical analysis of research in a delimited problem area within instructional technology (e.g., ITV, CAI, videodisc, simulations, programmed instruction). Empirically testable research questions related to the topic.

Credit Hours: 1–3
Campus:
Course Delivery: Classroom

TEAC
961 **Current Approaches to Elementary Music Education**

Crosslisted as *MUED 961*

[LINK \(http://bulletin.unl.edu/courses/TEAC/961\)](http://bulletin.unl.edu/courses/TEAC/961)

Prereqs:
Teaching experience

Credit Hours: 3

Implementation of current programs, materials, and techniques for the improvement of music instruction in the elementary school.

Campus:

Course Delivery: Classroom

TEAC

990

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/990\)](http://bulletin.unl.edu/courses/TEAC/990)

Refer to *Workshop Seminars in Education* under the "Education" section of this bulletin.

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

TEAC

993

Workshop Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/993\)](http://bulletin.unl.edu/courses/TEAC/993)

Refer to *Workshop Seminars in Education* under the "Education" section of this bulletin.

Credit Hours: 1-12

Max credits per degree: 12

Campus:

Course Delivery: Classroom

TEAC

995

Doctoral Seminar

[LINK \(http://bulletin.unl.edu/courses/TEAC/995\)](http://bulletin.unl.edu/courses/TEAC/995)

Prereqs:
Permission

Intended primarily for doctoral students, although non-doctoral graduate students may be admitted with special permission of the instructor. Students are immersed in outcome-based scholarly activities with a faculty mentor. Working on either an individualized or small group basis, students develop, execute and report one or more projects addressing the interaction between research and practice.

Credit Hours: 3

Max credits per degree: 18

Campus:

Course Delivery: Classroom

TEAC

996

Individual Research Projects

[LINK \(http://bulletin.unl.edu/courses/TEAC/996\)](http://bulletin.unl.edu/courses/TEAC/996)

Prereqs:
Permission

Individual research under faculty supervision.

Credit Hours: 1-10

Max credits per degree: 10

Campus:

Course Delivery: Classroom

TEAC

997

Minor Research

[LINK \(http://bulletin.unl.edu/courses/TEAC/997\)](http://bulletin.unl.edu/courses/TEAC/997)

Individual research on approved topics in Elementary Education.

Credit Hours: 1-6

Campus:

Course Delivery: Classroom

TEAC

999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/TEAC/999\)](http://bulletin.unl.edu/courses/TEAC/999)

Prereqs:

Credit Hours: 1-24

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 - [1.1 Educational Administration \(#Educational Administration\)](#)
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[Q](#)

Description

The College of Education and Human Sciences (CEHS) offers graduate degree programs through its seven CEHS departments: Child, Youth and Family Studies; Educational Administration; Educational Psychology; Nutrition and Health Sciences; Special Education and Communication Disorders; Teaching, Learning and Teacher Education; and Textiles, Clothing and Design. In addition to graduate degree programs, CEHS also offers graduate, non-degree programs leading to certification in areas such as teaching, curriculum leadership and school administration.

Workshop Seminars in Education

The purpose of the Workshop Seminars (890, 893, 990 or 993) is to give students in the departments of education an opportunity to work singly or in groups on practical educational problems which are of special focused interest but which are not included in other professional education courses. Workshops are offered on a variety of topics by College faculty and selected educational consultants. As a rule, the individual or group is expected to produce some kind of a product as a part of the workshop experience. The amount of credit in a Workshop Seminar at either the 800 or 900 level may not exceed 12 semester hours in meeting requirements for the masters degree. Upon approval, a maximum of 12 additional semester hours may be included in the program for the doctoral degree.

CEHS offers three masters degrees in nine majors and the education specialist degree in three majors. The MEd is offered only in Educational Administration; Special Education and Communication Disorders; and Teaching, Learning, and Teacher Education. The following requirements for the MEd are College requirements. Departmental requirements may exceed these. In work for the master of education degree, at least 6 semester hours selected from College of Education and Human Sciences courses outside the major must be included and supporting work may be substituted for the minor(s). For information on masters and specialist degree programs, consult the relevant department's listing in this bulletin.

CEHS offers two doctoral degrees, both the EdD and the PhD, under three majors: educational studies, human sciences, and psychological studies in education. In addition, CEHS participates in two additional doctoral majors.

The Educational Studies major includes six specializations. Instructional Technology; Internet-based Education; and Teaching, Curriculum and Learning are hosted by the Department of Teaching, Learning and Teacher Education. Special Education is sponsored by the Department of Special Education and Communication Disorders. The Department of Educational Administration hosts Educational Leadership and Higher Education and co-hosts, with Architecture, Architecture Education.

The Human Sciences major includes five specializations. Communication Disorders is housed in the Department of Special Education and Communication Disorders; Child, Youth and Family Studies is sponsored by the Department of Child, Youth and Family Studies; Nutrition and Health Sciences is hosted by the Department of Nutrition and Health Sciences; Textiles, Clothing and Design is based in the Department of Textiles, Clothing and Design; and Leadership Studies is housed in the Department of Agricultural Leadership, Education and Communication.

The Psychological Studies in Education major includes four specializations, all hosted by the Department of Educational Psychology: Cognition, Learning and Development; Counseling Psychology; Qualitative and Quantitative Methodologies in Education; and School Psychology.

In addition, the Department of Educational Administration--in cooperation with UNO's Department of Educational Administration--offers a major in Educational Administration, and the Department of Nutrition and Health Sciences participates in the Interdepartmental Nutrition major.

Specific program and application information is available under each department's listing in this bulletin. Up-to-date information is also available on-line at cehs.unl.edu. Inquiries may be directed to cehsgrad@unl.edu or to (402) 472-5333.

[Q](#)

Educational Administration

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Interim Department Chair: Brent D. Cejda, Ph.D.

Graduate Committee Chair: Jody Isernhagen, Ph.D.

The Department of Educational Administration offers programs leading to masters (MEd, MA) and doctoral degrees (PhD, EdD) as well as certificates of specialization.

Masters degree programs

The Masters Degree program meets the academic requirements for either a Master of Arts (MA) or a Master of Education (MEd) degree with a major in Educational Administration. The MA degree requires the completion of a thesis. Students enrolled in the Masters Degree program are interested in both K-12 and higher education administration.

The majority of students interested in K-12 education intend to satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, at either the standard or professional level, with administrative endorsements that will qualify them for employment as administrators in K-12 school systems. Students interested in higher education administration have the opportunity to pursue specializations in student affairs or human resource development or complete a general higher education program.

Doctoral degree programs

There are two approved doctoral areas of emphasis: 1) Educational Leadership and Higher Education (ELHE), which leads to either the PhD or EdD degree in education studies, and 2) a jointly operated program with UNO (EDJT) which leads to the EdD in educational administration. All students pursuing a doctorate degree are required to complete a dissertation and students pursuing a PhD are required to complete an on-campus residency.

Certificates of Specialization

In addition to masters and doctoral degrees, the department offers four certificates of specialization.

Individuals who already have a Masters Degree in education can pursue a certificate endorsement program that will satisfy the requirements for a Nebraska Administrative and Supervisory Certificate, a requirement for employment as an administrator in a K-12 school system.

The Certificate of Specialization in Educational Administration is designed to meet the requirements of a Nebraska Professional and Administrative Supervisory Certificate with an endorsement of superintendent.

The School Improvement Certificate Program that focuses on the K-12 school improvement process. The School Improvement Program benefits you—the teacher, by preparing you as a school leader while gaining the specialist credential, allowing you to increase your skills and build career opportunities.

The Community College Leadership Certificate is designed for those already employed in community colleges who aspire to administrative appointments as well as those who are in leadership positions and need or desire additional preparation.

Course Delivery

The Department of Educational Administration has been a campus leader in reaching out to students who need or wish to study from off campus and offers most of the course work for the MEd and EdD online. The primary emphasis in all courses is on the principles, processes, and practical skills necessary for the leadership, organization, and administration of educational institutions.

Further information about graduate degree programs and about certification programs may be located on the department's Website, located at cehs.unl.edu/edad.

[U](#)

Educational Psychology

For a brief description of the program, application requirements and contact information, view the [graduate program summary](#).

(<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Department Chair: R. J. De Ayala, Ph.D.

Graduate Committee Chair: Edward Daly, Ph.D.

Website: edpsyc.unl.edu

The Department of Educational Psychology consists of four program areas: counseling psychology; cognition, learning and development (CLD); quantitative, qualitative, and psychometric methods (QQPM); and school psychology.

Masters Degree

The master of arts (MA) degree may be obtained with a specialization in cognition, learning and development (CLD program), or with a concentration in counseling psychology, or research and psychometric methods (QQPM program). Individuals in the CLD program may select the general CLD specialization or an option in health behavior or in college learning center. Endorsement programs are offered in secondary school counseling, and elementary school counseling.

Educational Specialist Degree

The Department of Educational Psychology offers the educational specialist degree (EdS) (67-72 hours beyond the BA) in school psychology. The EdS in school psychology leads to certification as a school psychologist.

Doctoral Degrees

The PhD degree is available to students wishing careers in cognition, learning and development, research methods, measurement, counseling psychology, and school psychology through the field of educational specialization called psychological studies in education. For further information, see and contact the chair of the Department's Graduate Committee.

Counseling and School Psychology Clinic

The Counseling and School Psychology Clinic in the Department of Educational Psychology serves the dual function of (1) providing training for qualified graduate students and of (2) providing services to individuals, public schools, families, and community agencies. Clinic therapists assist adults, families, children and youth experiencing academic, psychological, and behavioral concerns. In addition to therapeutic services, clinic therapists provide psychological testing and consultation for school related concerns. Therapeutic services are also provided for educational and vocational concerns. Service is provided by appointment.

Buros Center for Testing

The Buros Center for Testing comprises two separate institutes dedicated to improving the quality of contemporary assessment practices. Founded by Oscar K. Buros in 1937, the Buros Institute of Mental Measurements (BIMM) publishes critical evaluations of commercially available tests. In addition to its international reputation for providing test reviews, BIMM maintains the largest collection of tests and testing materials in the world. The Buros Institute for Assessment Consultation and Outreach (BIACO) was established in 1994 to expand the range of available assessment services to proprietary testing programs that include credentialing, state educational assessment, employment testing, and assessment literacy. Together, the two Buros Institutes advance the goals of the Department of Educational Psychology and the College of Education and Human Sciences by providing consultation and instructional services to graduate programs, by training and supporting graduate students in current assessment practices, and by serving assessment outreach needs both within and outside the state of Nebraska.

[U](#)

Special Education and Communication Disorders

For a brief description of the program, application requirements and contact information, view the [graduate program summary](#).

(<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Department Chair: Sherri Jones, Ph.D.

Graduate Committee Chair: Karen Hux, Ph.D.

The Department of Special Education and Communication Disorders offers graduate programs leading to the master of science degree in speech-language pathology and the master of arts and master of education degrees in special education. The department administers a PhD in human sciences with a specialization in communication disorders and the PhD or EdD in educational studies with a specialization in special education. The department also offers the professional doctor of audiology (AuD) degree in audiology and a combined AuD/PhD Program. For more information on doctoral programs in education call (402) 472-2141 or visit our website at www.unl.edu/barkley.

The masters degree program in speech-language pathology and the AuD program in audiology are accredited by the Council on Academic Accreditation in Audiology/Speech-Language Pathology.

For more information regarding graduate and professional programs offered by the Department of Special Education and Communication Disorders, please call (402) 472-2141 or visit our website at www.unl.edu/barkley.

Masters Degree Programs. Students seeking admission into a masters program should: 1) apply on-line to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the web site at www.unl.edu/barkley or by emailing the Graduate Secretary at special@unl.edu. Three letters of recommendation, preferably from former college instructors, should be submitted to the departmental Graduate Governance Committee Chair along with the departmental application. Each applicant should also arrange to have a current academic transcript and scores for the General Test of the Graduate Record Examination submitted to the Graduate Studies Office at the University of Nebraska-Lincoln. Early submission of the scores is important because the application file cannot be given consideration until the file is complete.

For a master of science degree in speech-language pathology, completion of an appropriate undergraduate or pre-professional program is required for full graduate standing. Students with strong potential but without an academic background in the major may be admitted on a provisional basis until deficiencies have been met. Completion of the masters degree requires a minimum of 48 hours of approved graduate work, including appropriate clinical practicum experiences for those seeking certification/licensure. The application deadline for fall admission into the M.S. program in Speech-Language Pathology is January 15.

Teacher Certification (licensure) and the Masters Degree. Masters degrees may be obtained with teaching certificate endorsements for special education and speech-language pathology. Candidates must qualify for a Nebraska Teaching Certificate (see the Undergraduate Bulletin) for employment in the public schools.

Distance Education. The Department has several special education masters degrees, an educational specialist degree, and/or teaching endorsement programs that are available in part or fully through distance education. These include Early Childhood Special Education, Deaf and Hard of Hearing, Mild/Moderate Disabilities, Visual Impairments, Autism, Severe Disabilities, and Supervisor of Special Education (joint with Educational Administration) programs. Distance courses are delivered via the Internet with Blackboard and/or Breeze software. Some distance courses may also require some weekend meetings, telephone or Breeze connections to the on-campus course section, and may have scheduled participation requirements. Field experience and practicum courses can be arranged in or near local communities but may require special fees. Where required courses are not currently available via distance delivery, an equivalent course (either on-campus or at a distance) from another institution can be substituted with the approval of the advisor or may be taken on the UNL campus during the summer. See the department website for information about computer requirements for distance on-line courses and distance course availability.

Educational Specialist (EdS) Degree. This program in special education provides opportunity for practitioners in the field to upgrade their skills and/or develop leadership skills as a special educator in a particular area of specialization. Two years successful professional experience as a special educator is a minimum requirement for admission. A minimum of 66 credit hours past the bachelors degree is required, with at least 24 credits to be taken after admission to UNL's EdS program. These include at least 40 hours of core content courses, 6 credits of electives or practica, and 3 credits of research. Relevant coursework completed as part of a prior masters degree can be used toward this degree. The program also requires a written comprehensive examination. Degree requirements can be used for additional teaching endorsements. Other relevant information and the application form can be found online at: www.unl.edu/barkley/sped/eds.shtml.

Doctor of Audiology (AuD) Degree. The Department of Special Education and Communication Disorders offers a professional audiology degree, the Doctor of Audiology (AuD) degree. The AuD program is a four-year course of study post B.A. or B.S. designed to provide students with academic and clinical practicum experiences that will meet or exceed the requirements of the American Speech-Language-Hearing Association (ASHA) for the Certificate of Clinical Competence in Audiology (CCC-AUD) as well as licensure requirements in most states.

Students seeking admission to the AuD program should download the application from www.unl.edu/barkley. Three letters of recommendation, preferably from former college instructors, should be submitted to the AuD program coordinator along with the departmental application. Students **do not** apply to the Office of Graduate Studies and submission of the Graduate Record Examination is not required for admission. Students should contact the Graduate Support Staff at special@unl.edu for further application instructions.

PhD/EdD Degree Programs. Students planning to work toward PhD or EdD degrees will follow essentially the same procedures for admission as described above under the masters degree programs. Students seeking admission into one of these programs should: 1) apply online to the Office of Graduate Studies at www.unl.edu/gradstudies and 2) obtain the departmental application materials from the website at www.unl.edu/barkley or by emailing the Graduate Support Staff at special@unl.edu. Prospective students should submit three letters of recommendation along with the department application, a copy of their masters thesis and other relevant publications (if the student completed a thesis or has published) to the departmental Graduate Committee Chair. A current academic transcript and scores for the General Test of the Graduate Record Examination need to accompany the application when it is submitted to the Graduate Studies Office. Initial review of all applications is made within the Department of Special Education and Communication Disorders where consideration is given to whether an applicant meets the qualifications for entrance into the program and whether a student's interests are in accord with the type of education and direction the department faculty can provide. Final review of an application is made by the appropriate doctoral field graduate committee in special education or communications disorders.

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Teaching, Learning and Teacher Education

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation). (<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

Interim Department Chair: L. James Walter, Ph.D.

Graduate Committee Chair: Kathleen Wilson, Ph.D.

The Department of Teaching, Learning and Teacher Education (TLTE) provides masters, specialist and doctoral degree courses and programs for teachers, administrators, and other educational leaders and practitioners with a focus on scholarship and practice in curriculum and instruction in schools and non-school educational settings. Graduate endorsements are also offered in Reading Specialist K-12 and ESL.

Masters Degrees.

The aim of the TLTE masters program is to help educators build on their own experience, achieve a broad and deep understanding of educational practice, develop a professional identity, and engage in informed conversations about important teaching and learning issues towards making wise judgments regarding the many complex issues educators face. All candidates must complete a program which conforms to the requirements listed on the [TLTE masters program](http://cehs.unl.edu/tlte/graduate/masters) (<http://cehs.unl.edu/tlte/graduate/masters>) web page. There are two masters degrees available in TLTE: the MA and MEd. Both degree programs offer a good deal of flexibility to enable the student--in concert with a faculty adviser--to develop a course of study that meets the student's needs and interests.

If you are interested in earning teacher certification at the elementary level in combination with a master degree, a 14 month full time program (MAet) is available. If instead you see yourself teaching at the middle school or high school level with a specialization in science or mathematics, read about our newest 14 month full time programs (MAmt and MAst) where you can qualify for teacher certification and earn a Master of Arts degree. A limited number of fellowships are available with the MAst and MAmt programs.

Educational Specialist (EdS) Degree.

This program in curriculum and instruction provides an opportunity for practitioners in the field to upgrade their professional skills. Two years of successful professional experiences is a minimum requirement for admission. Sixty-six hours beyond the bachelors degree, research competence, practicum experiences, and a written comprehensive examination are basic requirements for the program. It is recommended that you contact the department Graduate Chair before applying.

Doctoral Programs.

The EdD and PhD degrees are available under the major heading Educational Studies refer to the web page [doctoral programs in education](http://cehs.unl.edu/tlte/graduate/doctoral.shtml). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml>) The EdD is recommended for those whose primary interest is in the application of theory and knowledge to improve educational practice. The PhD is designed for students seeking to conduct research in order to generate new knowledge or reform educational theory. The Department of Teaching, Learning and Teacher Education administers three doctoral-level specializations, available for both the EdD and PhD in Educational Studies. Teaching, Curriculum and Learning focuses on teaching and learning processes; Instructional Technology focuses on using technology as a learning tool in various educational settings; and Internet-based Education focuses on using the Internet as a platform for teaching and learning. The most current information on these specializations is kept up-to-date on the web page for [TLTE doctoral programs](http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl). (<http://cehs.unl.edu/tlte/graduate/doctoral.shtml#tcl>)

For additional information, see or of this bulletin. The Graduate Record Examination (GRE) is required for admission to the doctoral programs and foreign students must also submit a TOEFL score.

Faculty

Educational Administration

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalAdministration>)

Educational Psychology

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology). (<http://www.unl.edu/gradstudies/prospective/programs/EducationalPsychology>)

Special Education and Communication Disorders

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders).
(<http://www.unl.edu/gradstudies/prospective/programs/SpecialEdAndCommDisorders>)

Teaching, Learning and Teacher Education

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation).
(<http://www.unl.edu/gradstudies/prospective/programs/TeacherEducation>)

Retrieved from "<http://bulletin.unl.edu/graduate/Education> (<http://bulletin.unl.edu/graduate/Education>)"

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Theatre Arts

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Courses for THEA (THEA)

THEA

398/898

Special Topics in Theatre

[LINK \(http://bulletin.unl.edu/courses/THEA/398\)](http://bulletin.unl.edu/courses/THEA/398)

Prereqs:
Permission.

Credit Hours:	1-24
Max credits per semester:	24
Max credits per degree:	24
Course Delivery:	Classroom

THEA

402/802

Advanced Stage Movement

[LINK \(http://bulletin.unl.edu/courses/THEA/402\)](http://bulletin.unl.edu/courses/THEA/402)

Prereqs:
[THEA 224 \(http://bulletin.unl.edu/courses/THEA/224\)](http://bulletin.unl.edu/courses/THEA/224), [256 \(http://bulletin.unl.edu/courses/THEA/256\)](http://bulletin.unl.edu/courses/THEA/256), or equivalent and permission.

Actor movement training intended for the graduate and advanced undergraduate. Focus on the process of building a physical characterization, tumbling, kinesthetic awareness, movement improvisation, period styles, court dancing, mask, Commedia dell'Arte, and stage combat.

Credit Hours:	2
Max credits per semester:	2
Max credits per degree:	8
Course Delivery:	Classroom

THEA

403/803

Advanced Stage Voice

[LINK \(http://bulletin.unl.edu/courses/THEA/403\)](http://bulletin.unl.edu/courses/THEA/403)

Prereqs:
[THEA 224 \(http://bulletin.unl.edu/courses/THEA/224\)](http://bulletin.unl.edu/courses/THEA/224), [254 \(http://bulletin.unl.edu/courses/THEA/254\)](http://bulletin.unl.edu/courses/THEA/254), or equivalent and permission.

Actor voice training intended for the graduate and advanced undergraduate. Linklater-based training supplemented by Lessac principles, phonetics, verse scansion, and dialects.

Credit Hours:	2
Max credits per semester:	2
Max credits per degree:	8
Course Delivery:	Classroom

THEA

406/806

Costume Crafts

[LINK \(http://bulletin.unl.edu/courses/THEA/406\)](http://bulletin.unl.edu/courses/THEA/406)

The creation of various costume accessories, ornaments and hand properties categorized by the profession as costume crafts.

Credit Hours:	3
Course Format:	Studio 6
Course Delivery:	Classroom

THEA

407/807

Auditioning

[LINK \(http://bulletin.unl.edu/courses/THEA/407\)](http://bulletin.unl.edu/courses/THEA/407)

Prereqs:

Credit Hours:	1
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[THEA 114 \(http://bulletin.unl.edu/courses/THEA/114\)](http://bulletin.unl.edu/courses/THEA/114), [115 \(http://bulletin.unl.edu/courses/THEA/115\)](http://bulletin.unl.edu/courses/THEA/115), [223 \(http://bulletin.unl.edu/courses/THEA/223\)](http://bulletin.unl.edu/courses/THEA/223), [224 \(http://bulletin.unl.edu/courses/THEA/224\)](http://bulletin.unl.edu/courses/THEA/224) and permission.

Course Delivery: Classroom

Auditioning process, including resumes, interviews, preparation of pieces (forms, styles, and genres), cold readings, songs, etc.

THEA **Advanced Projects in Acting and/or Directing**

[LINK \(http://bulletin.unl.edu/courses/THEA/408\)](http://bulletin.unl.edu/courses/THEA/408)

THEA
408/808

Prereqs:
(Acting) [THEA 112G \(http://bulletin.unl.edu/courses/THEA/112G\)](http://bulletin.unl.edu/courses/THEA/112G) or [115 \(http://bulletin.unl.edu/courses/THEA/115\)](http://bulletin.unl.edu/courses/THEA/115), [204 \(http://bulletin.unl.edu/courses/THEA/114\)](http://bulletin.unl.edu/courses/THEA/114), [204 \(http://bulletin.unl.edu/courses/THEA/204\)](http://bulletin.unl.edu/courses/THEA/204), [401 \(http://bulletin.unl.edu/courses/THEA/401\)](http://bulletin.unl.edu/courses/THEA/401), [801 \(http://bulletin.unl.edu/courses/THEA/801\)](http://bulletin.unl.edu/courses/THEA/801) or equivalent and permission; (Directing) [THEA 203 \(http://bulletin.unl.edu/courses/THEA/203\)](http://bulletin.unl.edu/courses/THEA/203), [401 \(http://bulletin.unl.edu/courses/THEA/401\)](http://bulletin.unl.edu/courses/THEA/401), [801 \(http://bulletin.unl.edu/courses/THEA/801\)](http://bulletin.unl.edu/courses/THEA/801), [403 \(http://bulletin.unl.edu/courses/THEA/403\)](http://bulletin.unl.edu/courses/THEA/403), [803 \(http://bulletin.unl.edu/courses/THEA/803\)](http://bulletin.unl.edu/courses/THEA/803), [410 \(http://bulletin.unl.edu/courses/THEA/410\)](http://bulletin.unl.edu/courses/THEA/410), [810 \(http://bulletin.unl.edu/courses/THEA/810\)](http://bulletin.unl.edu/courses/THEA/810), [412 \(http://bulletin.unl.edu/courses/THEA/412\)](http://bulletin.unl.edu/courses/THEA/412), [812 \(http://bulletin.unl.edu/courses/THEA/812\)](http://bulletin.unl.edu/courses/THEA/812), [418 \(http://bulletin.unl.edu/courses/THEA/418\)](http://bulletin.unl.edu/courses/THEA/418), [818 \(http://bulletin.unl.edu/courses/THEA/818\)](http://bulletin.unl.edu/courses/THEA/818), and permission.

Credit Hours:	1-3
Max credits per semester:	3
Max credits per degree:	9
Course Delivery:	Classroom

Selected performance in acting and directing in University Theatre, and Experimental Theatre.

THEA **Advanced Projects in Technical Theatre**

[LINK \(http://bulletin.unl.edu/courses/THEA/409\)](http://bulletin.unl.edu/courses/THEA/409)

THEA
409/809

Prereqs:
[THEA 410 \(http://bulletin.unl.edu/courses/THEA/410\)](http://bulletin.unl.edu/courses/THEA/410), [810 \(http://bulletin.unl.edu/courses/THEA/810\)](http://bulletin.unl.edu/courses/THEA/810), [412 \(http://bulletin.unl.edu/courses/THEA/412\)](http://bulletin.unl.edu/courses/THEA/412), [812 \(http://bulletin.unl.edu/courses/THEA/812\)](http://bulletin.unl.edu/courses/THEA/812), [418 \(http://bulletin.unl.edu/courses/THEA/418\)](http://bulletin.unl.edu/courses/THEA/418), [818 \(http://bulletin.unl.edu/courses/THEA/818\)](http://bulletin.unl.edu/courses/THEA/818) or equivalent and permission.

Credit Hours:	1-3
Max credits per semester:	3
Max credits per degree:	9
Course Delivery:	Classroom

Projects in scene design, costume design, lighting design, sound design, or technical direction. Planning and execution of designs for actual production.

THEA **Stage Lighting I**

[LINK \(http://bulletin.unl.edu/courses/THEA/410\)](http://bulletin.unl.edu/courses/THEA/410)

THEA
410/810

Prereqs:
12 hrs theatre arts, including [THEA 201 \(http://bulletin.unl.edu/courses/THEA/201\)](http://bulletin.unl.edu/courses/THEA/201) and [202 \(http://bulletin.unl.edu/courses/THEA/202\)](http://bulletin.unl.edu/courses/THEA/202).

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

This course is a prerequisite for: [THEA 409 \(http://bulletin.unl.edu/courses/THEA/409\)](http://bulletin.unl.edu/courses/THEA/409), [THEA 411 \(http://bulletin.unl.edu/courses/THEA/411\)](http://bulletin.unl.edu/courses/THEA/411)

Theory and practice of stage lighting. Instruments and control systems employed in lighting the stage. Color in light, its effect upon costume, makeup, and settings. Planning of light plots.

THEA

Stage Lighting II[LINK \(http://bulletin.unl.edu/courses/THEA/411\)](http://bulletin.unl.edu/courses/THEA/411)**411/811****Prereqs:**

[THEA 410 \(http://bulletin.unl.edu/courses/THEA/410\)](http://bulletin.unl.edu/courses/THEA/410)/[810 \(http://bulletin.unl.edu/courses/THEA/810\)](http://bulletin.unl.edu/courses/THEA/810) or equivalent.

This course is a prerequisite for: [THEA 414 \(http://bulletin.unl.edu/courses/THEA/414\)](http://bulletin.unl.edu/courses/THEA/414)

Intensive work in designing lighting for theatre, dance, musicals, and opera.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

THEA

Scene Design II[LINK \(http://bulletin.unl.edu/courses/THEA/413\)](http://bulletin.unl.edu/courses/THEA/413)**413/813****Prereqs:**

12 hrs theatre arts, including [THEA 201 \(http://bulletin.unl.edu/courses/THEA/201\)](http://bulletin.unl.edu/courses/THEA/201) and [202 \(http://bulletin.unl.edu/courses/THEA/202\)](http://bulletin.unl.edu/courses/THEA/202), and [412 \(http://bulletin.unl.edu/courses/THEA/412\)](http://bulletin.unl.edu/courses/THEA/412)/[812 \(http://bulletin.unl.edu/courses/THEA/812\)](http://bulletin.unl.edu/courses/THEA/812).

This course is a prerequisite for: [THEA 415 \(http://bulletin.unl.edu/courses/THEA/415\)](http://bulletin.unl.edu/courses/THEA/415)

Theory and practice of scene design. Rendering techniques, period research, and multi-set productions.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

THEA

Stage Lighting III[LINK \(http://bulletin.unl.edu/courses/THEA/414\)](http://bulletin.unl.edu/courses/THEA/414)**414/814****Prereqs:**

[THEA 411 \(http://bulletin.unl.edu/courses/THEA/411\)](http://bulletin.unl.edu/courses/THEA/411)/[811 \(http://bulletin.unl.edu/courses/THEA/811\)](http://bulletin.unl.edu/courses/THEA/811) or equivalent.

Advanced lighting design through the rendering of light story boards.

Credit Hours:	3
Course Format:	Lecture, Lab
Course Delivery:	Classroom

THEA

Production Design for Film and Television[LINK \(http://bulletin.unl.edu/courses/THEA/415\)](http://bulletin.unl.edu/courses/THEA/415)**415/815****Prereqs:**

[THEA 413 \(http://bulletin.unl.edu/courses/THEA/413\)](http://bulletin.unl.edu/courses/THEA/413)/[813 \(http://bulletin.unl.edu/courses/THEA/813\)](http://bulletin.unl.edu/courses/THEA/813) or [489 \(http://bulletin.unl.edu/courses/THEA/489\)](http://bulletin.unl.edu/courses/THEA/489)/[889 \(http://bulletin.unl.edu/courses/THEA/889\)](http://bulletin.unl.edu/courses/THEA/889).

Theory and practice of production design for the camera. Research, design techniques, tools, and aspects specific to film and television.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

THEA

Computer Aided Design (CAD) for Theatre[LINK \(http://bulletin.unl.edu/courses/THEA/416\)](http://bulletin.unl.edu/courses/THEA/416)**416/816****Prereqs:**

12 hrs theatre arts, including [THEA 201 \(http://bulletin.unl.edu/courses/THEA/201\)](http://bulletin.unl.edu/courses/THEA/201), and permission.

Computer Aided Design (CAD) as it applies to scenic, costume, and lighting design. Emphasis on two-dimensional drafting, three-dimensional modeling, and computer graphics.

Credit Hours:	3
Course Delivery:	Classroom

THEA

Costume Design I[LINK \(http://bulletin.unl.edu/courses/THEA/418\)](http://bulletin.unl.edu/courses/THEA/418)

418/818

Prereqs:
12 hrs theatre arts, including [THEA 201](http://bulletin.unl.edu/courses/THEA/201)
(<http://bulletin.unl.edu/courses/THEA/201>) and [202](http://bulletin.unl.edu/courses/THEA/202)
(<http://bulletin.unl.edu/courses/THEA/202>).

This course is a prerequisite for: [THEA 419](http://bulletin.unl.edu/courses/THEA/419) (<http://bulletin.unl.edu/courses/THEA/419>)

Theory and practice of stage costume designs. Principles of design as they apply to theatrical costuming. Development of costume designs for the characters in a play through sketches, drawings, and color plates.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

THEA

Costume Design II

[LINK \(http://bulletin.unl.edu/courses/THEA/419\)](http://bulletin.unl.edu/courses/THEA/419)

419/819

Prereqs:
[THEA 418](http://bulletin.unl.edu/courses/THEA/418) (<http://bulletin.unl.edu/courses/THEA/418>)/[818](http://bulletin.unl.edu/courses/THEA/818)
(<http://bulletin.unl.edu/courses/THEA/818>).

In-depth costume design in the areas of design conception and techniques of design communication. Application of principles learned in Costume Design I.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

THEA

Problems in Technical Production

[LINK \(http://bulletin.unl.edu/courses/THEA/420\)](http://bulletin.unl.edu/courses/THEA/420)

420/820

Prereqs:
[THEA 201](http://bulletin.unl.edu/courses/THEA/201) (<http://bulletin.unl.edu/courses/THEA/201>), [410](http://bulletin.unl.edu/courses/THEA/410)
(<http://bulletin.unl.edu/courses/THEA/410>)/[810](http://bulletin.unl.edu/courses/THEA/810)
(<http://bulletin.unl.edu/courses/THEA/810>), [412](http://bulletin.unl.edu/courses/THEA/412)
(<http://bulletin.unl.edu/courses/THEA/412>)/[812](http://bulletin.unl.edu/courses/THEA/812)
(<http://bulletin.unl.edu/courses/THEA/812>), or equivalent and permission.

In-depth theoretical and practical application of organization, materials, and techniques necessary for the planning, execution, maintenance, and use of stage scenery, and the proper and safe use and maintenance of the stage and shop facilities.

Credit Hours:	3
Course Format:	Lecture 2, Lab 3
Course Delivery:	Classroom

THEA

Drafting for the Theatre

[LINK \(http://bulletin.unl.edu/courses/THEA/421\)](http://bulletin.unl.edu/courses/THEA/421)

421/821

Advanced techniques and practice in technical drafting as applied to theatrical scenic construction.

Credit Hours:	3
Course Delivery:	Classroom

THEA

Theatre Architecture

[LINK \(http://bulletin.unl.edu/courses/THEA/422\)](http://bulletin.unl.edu/courses/THEA/422)

422/822

Practice in planning of a theatre facility, including program writing, working with consultants and architects, equipment specification, space allocation, codes and regulations.

Credit Hours:	3
Course Delivery:	Classroom

THEA

The American Theatre I

[LINK \(http://bulletin.unl.edu/courses/THEA/427\)](http://bulletin.unl.edu/courses/THEA/427)

427/827

Prereqs:
12 hrs theatre arts, including [THEA 112G](http://bulletin.unl.edu/courses/THEA/112G) (<http://bulletin.unl.edu/courses/THEA/112G>), [335](http://bulletin.unl.edu/courses/THEA/335) (<http://bulletin.unl.edu/courses/THEA/335>), and [336](http://bulletin.unl.edu/courses/THEA/336) (<http://bulletin.unl.edu/courses/THEA/336>) or equivalent.

History and development of the professional American theatre from the beginning to 1900. Includes selected American plays which best characterize the period under consideration.

Credit Hours: 3

Course Delivery: Classroom

THEA **The American Theatre II**

428/828

[LINK \(http://bulletin.unl.edu/courses/THEA/428\)](http://bulletin.unl.edu/courses/THEA/428)

Prereqs:
12 hrs theatre arts, including [THEA 112G](http://bulletin.unl.edu/courses/THEA/112G) (<http://bulletin.unl.edu/courses/THEA/112G>), [335](http://bulletin.unl.edu/courses/THEA/335) (<http://bulletin.unl.edu/courses/THEA/335>), and [336](http://bulletin.unl.edu/courses/THEA/336) (<http://bulletin.unl.edu/courses/THEA/336>) or equivalent.

History and development of the professional American theatre from 1900 to the present day. Includes selected American plays which best characterize the period.

Credit Hours: 3

Course Delivery: Classroom

THEA **Advanced Playwriting**

431/831

[LINK \(http://bulletin.unl.edu/courses/THEA/431\)](http://bulletin.unl.edu/courses/THEA/431)

Prereqs:
12 hrs theatre arts, including [THEA 112G](http://bulletin.unl.edu/courses/THEA/112G) (<http://bulletin.unl.edu/courses/THEA/112G>) or [115](http://bulletin.unl.edu/courses/THEA/115) (<http://bulletin.unl.edu/courses/THEA/115>), [131](http://bulletin.unl.edu/courses/THEA/131) (<http://bulletin.unl.edu/courses/THEA/131>) or equivalent, and permission.

Practice leading to the composition of a three-act play or equivalent long play.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 9

Course Delivery: Classroom

THEA **Scene Painting**

432/832

[LINK \(http://bulletin.unl.edu/courses/THEA/432\)](http://bulletin.unl.edu/courses/THEA/432)

Prereqs:
12 hrs theatre arts including [THEA 201](http://bulletin.unl.edu/courses/THEA/201) (<http://bulletin.unl.edu/courses/THEA/201>), or permission.

Techniques and practice of scene painting for theatre, film, and television. Texture simulation, faux finishes, and realistic drop painting.

Credit Hours: 3

Course Delivery: Classroom

THEA **Film: Directing**

438/838

[LINK \(http://bulletin.unl.edu/courses/THEA/438\)](http://bulletin.unl.edu/courses/THEA/438)

Prereqs:
[THEA 489](http://bulletin.unl.edu/courses/THEA/489) (<http://bulletin.unl.edu/courses/THEA/489>).

Develop the skills required to successfully direct a film. Critically analyze a script; shape an actor's performance and balance the technical demands of each scene.

Credit Hours: 3

Course Format: Lab, Lecture 3

Course Delivery: Classroom

THEA **Continental Drama**

440/840

[LINK \(http://bulletin.unl.edu/courses/THEA/440\)](http://bulletin.unl.edu/courses/THEA/440)

Prereqs:
Junior standing or permission.

Most frequently produced plays 1652–1989 on European stages (excluding England). Structural aspects and reasons for the play's popularity among performers and audiences.

Credit Hours: 3

Course Delivery: Classroom

THEA **Sound Design I**

450/850

[LINK \(http://bulletin.unl.edu/courses/THEA/450\)](http://bulletin.unl.edu/courses/THEA/450)

Prereqs:
THEA 201 (<http://bulletin.unl.edu/courses/THEA/201>) or permission

This course is a prerequisite for: [THEA 451 \(http://bulletin.unl.edu/courses/THEA/451\)](http://bulletin.unl.edu/courses/THEA/451)

Theory and practice of sound design for live theatre. Extensive work with recording, mixing, effects, and playback devices.

Credit Hours: 3

Course Delivery: Classroom

THEA **Sound Design II**

451/851

[LINK \(http://bulletin.unl.edu/courses/THEA/451\)](http://bulletin.unl.edu/courses/THEA/451)

Prereqs:
THEA 450 (<http://bulletin.unl.edu/courses/THEA/450>)/850 (<http://bulletin.unl.edu/courses/THEA/850>) or permission

Advanced work with recording, editing, and playback devices. Training in digital editing using the ProTools LE platform. Planning and execution of full-length, realized, sound designs for departmental mainstage productions.

Credit Hours: 3

Course Delivery: Classroom

THEA **Sound for Film**

454/854

[LINK \(http://bulletin.unl.edu/courses/THEA/454\)](http://bulletin.unl.edu/courses/THEA/454)

Prereqs:
THEA 489 (<http://bulletin.unl.edu/courses/THEA/489>)/889 (<http://bulletin.unl.edu/courses/THEA/889>) or 451 (<http://bulletin.unl.edu/courses/THEA/451>)/851 (<http://bulletin.unl.edu/courses/THEA/851>).

Advanced application of studio and field recording techniques and Digital Audio Workstation (DAW) editing.

Credit Hours: 3

Course Format: Lecture, Lab

Course Delivery: Classroom

THEA **Musical Theatre Techniques**

455/855

Crosslisted as *MUOP 455/855*

[LINK \(http://bulletin.unl.edu/courses/THEA/455\)](http://bulletin.unl.edu/courses/THEA/455)

Advanced training in the integration of acting, movement, and singing skills for the performance of musical theatre. Training in artistic decision making that generates a character within a musical. Focus on a discipline of preparation and the resulting practice of performance; practical experiences with solos, duets, and ensembles from American Musical Theatre Repertoire.

Credit Hours: 3

Max credits per degree: 3

Course Format: Lecture 3

Course Delivery: Classroom

THEA **Stage Rigging I**

457/857

[LINK \(http://bulletin.unl.edu/courses/THEA/457\)](http://bulletin.unl.edu/courses/THEA/457)

Prereqs:
THEA 201 (<http://bulletin.unl.edu/courses/THEA/201>) or permission

Theory and practice of rigging for live theatre. Extensive work with fly systems, rope systems, and standard rigging hardware.

Credit Hours: 3

Course Delivery: Classroom

THEA **Technological Innovations in Film Production**

480/880

[LINK \(http://bulletin.unl.edu/courses/THEA/480\)](http://bulletin.unl.edu/courses/THEA/480)

Prereqs:
Senior standing and 3.0 GPA.

History of technological innovation in film. Sound, film format, color systems, lenses and lighting that have enhanced the finished product in the film industry.

Credit Hours:	3
Course Delivery:	Classroom

THEA **Screenwriting: The Short Script**

481/881

[LINK \(http://bulletin.unl.edu/courses/THEA/481\)](http://bulletin.unl.edu/courses/THEA/481)

Prereqs:
[BRDC 370 \(http://bulletin.unl.edu/courses/BRDC/370\)](http://bulletin.unl.edu/courses/BRDC/370) or [ENGL 252 \(http://bulletin.unl.edu/courses/ENGL/252\)](http://bulletin.unl.edu/courses/ENGL/252) or [254 \(http://bulletin.unl.edu/courses/ENGL/254\)](http://bulletin.unl.edu/courses/ENGL/254) or [259 \(http://bulletin.unl.edu/courses/ENGL/259\)](http://bulletin.unl.edu/courses/ENGL/259) or [THEA 331 \(http://bulletin.unl.edu/courses/THEA/331\)](http://bulletin.unl.edu/courses/THEA/331) or permission.

This course is a prerequisite for: [THEA 486 \(http://bulletin.unl.edu/courses/THEA/486\)](http://bulletin.unl.edu/courses/THEA/486), [THEA 489 \(http://bulletin.unl.edu/courses/THEA/489\)](http://bulletin.unl.edu/courses/THEA/489)

Character development, story structure, and problem solving. Writing for the short film.

Credit Hours:	3
Course Delivery:	Classroom

THEA **Film Production I**

482/882

[LINK \(http://bulletin.unl.edu/courses/THEA/482\)](http://bulletin.unl.edu/courses/THEA/482)

Prereqs:
[BRDC 269 \(http://bulletin.unl.edu/courses/BRDC/269\)](http://bulletin.unl.edu/courses/BRDC/269); [THEA 114 \(http://bulletin.unl.edu/courses/THEA/114\)](http://bulletin.unl.edu/courses/THEA/114), [201 \(http://bulletin.unl.edu/courses/THEA/201\)](http://bulletin.unl.edu/courses/THEA/201) and [202 \(http://bulletin.unl.edu/courses/THEA/202\)](http://bulletin.unl.edu/courses/THEA/202); [BRDC 474 \(http://bulletin.unl.edu/courses/BRDC/474\)](http://bulletin.unl.edu/courses/BRDC/474)/[874 \(http://bulletin.unl.edu/courses/BRDC/874\)](http://bulletin.unl.edu/courses/BRDC/874) or [ENGL 252 \(http://bulletin.unl.edu/courses/ENGL/252\)](http://bulletin.unl.edu/courses/ENGL/252) or [254 \(http://bulletin.unl.edu/courses/ENGL/254\)](http://bulletin.unl.edu/courses/ENGL/254) or [259 \(http://bulletin.unl.edu/courses/ENGL/259\)](http://bulletin.unl.edu/courses/ENGL/259) or [THEA 131 \(http://bulletin.unl.edu/courses/THEA/131\)](http://bulletin.unl.edu/courses/THEA/131) or permission.

Students must have access to a camcorder.

"Film grammar" and non-sync film production.

Credit Hours:	3
Course Delivery:	Classroom

THEA **Advanced Projects in Film Production and/or New Media**

484/884

[LINK \(http://bulletin.unl.edu/courses/THEA/484\)](http://bulletin.unl.edu/courses/THEA/484)

Prereqs:
[THEA 489 \(http://bulletin.unl.edu/courses/THEA/489\)](http://bulletin.unl.edu/courses/THEA/489)/[889 \(http://bulletin.unl.edu/courses/THEA/889\)](http://bulletin.unl.edu/courses/THEA/889).

Projects in screenwriting, film production, digital animation, and new media.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

THEA **Post Production for Film and New Media**

485/885

[LINK \(http://bulletin.unl.edu/courses/THEA/485\)](http://bulletin.unl.edu/courses/THEA/485)

Prereqs:
[THEA 489 \(http://bulletin.unl.edu/courses/THEA/489\)](http://bulletin.unl.edu/courses/THEA/489)/[889 \(http://bulletin.unl.edu/courses/THEA/889\)](http://bulletin.unl.edu/courses/THEA/889)

Credit Hours:	3
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<http://bulletin.unl.edu/courses/THEA/889>.

Advanced studio software and techniques.

Course Format: Lecture, Quiz

Course Delivery: Classroom

THEA

Film: Producing

[LINK \(http://bulletin.unl.edu/courses/THEA/486\)](http://bulletin.unl.edu/courses/THEA/486)

486/886

Prereqs:

[THEA 481 \(http://bulletin.unl.edu/courses/THEA/481/881\)](http://bulletin.unl.edu/courses/THEA/481/881)
[881 \(http://bulletin.unl.edu/courses/THEA/881\)](http://bulletin.unl.edu/courses/THEA/881) and [THEA 489](http://bulletin.unl.edu/courses/THEA/489/889)
[889 \(http://bulletin.unl.edu/courses/THEA/489/889\)](http://bulletin.unl.edu/courses/THEA/489/889)
[889 \(http://bulletin.unl.edu/courses/THEA/889\)](http://bulletin.unl.edu/courses/THEA/889).

The budgeting, organizational, managerial and supervisory skills required by a creative film producer – from financing to distribution.

Credit Hours: 3

Course Format: Lab 3, Lecture 3

Course Delivery: Classroom

THEA

Digital Motion Graphics

[LINK \(http://bulletin.unl.edu/courses/THEA/487\)](http://bulletin.unl.edu/courses/THEA/487)

487/887

Prereqs:

[THEA 489 \(http://bulletin.unl.edu/courses/THEA/489\)](http://bulletin.unl.edu/courses/THEA/489) or by permission.

Creating moving text and images using compositing and animation software. Also an introduction to basic 3D animation.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

THEA

Film Production II

[LINK \(http://bulletin.unl.edu/courses/THEA/489\)](http://bulletin.unl.edu/courses/THEA/489)

489/889

Prereqs:

[THEA 481 \(http://bulletin.unl.edu/courses/THEA/481/881\)](http://bulletin.unl.edu/courses/THEA/481/881)
[881 \(http://bulletin.unl.edu/courses/THEA/881\)](http://bulletin.unl.edu/courses/THEA/881), [482](http://bulletin.unl.edu/courses/THEA/482/882)
[882 \(http://bulletin.unl.edu/courses/THEA/482/882\)](http://bulletin.unl.edu/courses/THEA/482/882)
[882 \(http://bulletin.unl.edu/courses/THEA/882\)](http://bulletin.unl.edu/courses/THEA/882), and permission.

This course is a prerequisite for: [MUSC 435 \(http://bulletin.unl.edu/courses/MUSC/435\)](http://bulletin.unl.edu/courses/MUSC/435).

[THEA 438 \(http://bulletin.unl.edu/courses/THEA/438\)](http://bulletin.unl.edu/courses/THEA/438), [THEA 454](http://bulletin.unl.edu/courses/THEA/454)

[884 \(http://bulletin.unl.edu/courses/THEA/484\)](http://bulletin.unl.edu/courses/THEA/484), [THEA 485](http://bulletin.unl.edu/courses/THEA/485)

[885 \(http://bulletin.unl.edu/courses/THEA/485\)](http://bulletin.unl.edu/courses/THEA/485), [THEA 486](http://bulletin.unl.edu/courses/THEA/486)

[886 \(http://bulletin.unl.edu/courses/THEA/486\)](http://bulletin.unl.edu/courses/THEA/486), [THEA 487](http://bulletin.unl.edu/courses/THEA/487)

[887 \(http://bulletin.unl.edu/courses/THEA/487\)](http://bulletin.unl.edu/courses/THEA/487).

All projects are produced in film or digital video.

Advanced film production techniques including sync-sound, lighting, lab post-production and film business. Small group production of Cinema Verite's Experimental and Narrative short films.

Credit Hours: 3

Course Delivery: Classroom

THEA

Advanced Projects in Directing, Theatre Management and/or Stage Management

[LINK \(http://bulletin.unl.edu/courses/THEA/491\)](http://bulletin.unl.edu/courses/THEA/491)

491/891

Prereqs:

[THEA 202 \(http://bulletin.unl.edu/courses/THEA/202\)](http://bulletin.unl.edu/courses/THEA/202); [THEA 300](http://bulletin.unl.edu/courses/THEA/300)
[300 \(http://bulletin.unl.edu/courses/THEA/300\)](http://bulletin.unl.edu/courses/THEA/300) or [301](http://bulletin.unl.edu/courses/THEA/301)
[301 \(http://bulletin.unl.edu/courses/THEA/301\)](http://bulletin.unl.edu/courses/THEA/301); and permission.

Selected projects in directing, theatre management, and/or stage management in University Theatre or Theatrix.

Credit Hours: 1-3

Max credits per degree: 9

Course Format: Independent Study

Course Delivery: Classroom

THEA

Internship in Theatre or Film

[LINK \(http://bulletin.unl.edu/courses/THEA/494\)](http://bulletin.unl.edu/courses/THEA/494)

494/894

Prereqs:
Permission.

Structured internships with professional organizations or individuals outside the University of Nebraska–Lincoln campus or with Nebraska Educational Telecommunications.

Credit Hours:	1–3
Max credits per degree:	6
Course Format:	Field
Course Delivery:	Classroom

THEA
801

Advanced Acting

[LINK \(http://bulletin.unl.edu/courses/THEA/801\)](http://bulletin.unl.edu/courses/THEA/801)

Prereqs:
[THEA 254 \(http://bulletin.unl.edu/courses/THEA/254\)](http://bulletin.unl.edu/courses/THEA/254), [256 \(http://bulletin.unl.edu/courses/THEA/256\)](http://bulletin.unl.edu/courses/THEA/256), [224 \(http://bulletin.unl.edu/courses/THEA/224\)](http://bulletin.unl.edu/courses/THEA/224) or equivalent and permission

Specific content for each semester may be obtained from the teaching faculty. The actor's methods of character development in the major styles of acting including Realistic Drama, Elizabethan, Comedy, Theatre of the Absurd, Musical Theatre, and others, and the acting profession itself.

Credit Hours:	3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

THEA
804

Evolution of Dramatic Theory I

[LINK \(http://bulletin.unl.edu/courses/THEA/804\)](http://bulletin.unl.edu/courses/THEA/804)

Prereqs:
12 hrs theatre arts and dramatic literature

Dramatic theory from Aristotle to Lessing with emphasis on the relationship of theory and practice on the stage.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

THEA
805

Evolution of Dramatic Theory II

[LINK \(http://bulletin.unl.edu/courses/THEA/805\)](http://bulletin.unl.edu/courses/THEA/805)

Prereqs:
12 hrs theatre arts and dramatic literature

Dramatic theory continued from Lessing to the present.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

THEA
812

Scene Design I

[LINK \(http://bulletin.unl.edu/courses/THEA/812\)](http://bulletin.unl.edu/courses/THEA/812)

Prereqs:
12 hrs theatre arts including THEA 201 (http://bulletin.unl.edu/courses/THEA/201) and 202 (http://bulletin.unl.edu/courses/THEA/202)

Theory and practice of scene design. Application of the principles of design to stage settings. Development of the scene design for a play through sketches, color plates, models, and drawings.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

THEA
823

Rendering for the Theatre

[LINK \(http://bulletin.unl.edu/courses/THEA/823\)](http://bulletin.unl.edu/courses/THEA/823)

Advanced practices in scenic rendering for theatre and film.

Credit Hours:	3
Campus:	

THEA

826**Lighting for Film**[LINK \(http://bulletin.unl.edu/courses/THEA/826\)](http://bulletin.unl.edu/courses/THEA/826)**Prereqs:**

[THEA 811 \(http://bulletin.unl.edu/courses/THEA/811\)](http://bulletin.unl.edu/courses/THEA/811) or [889 \(http://bulletin.unl.edu/courses/THEA/889\)](http://bulletin.unl.edu/courses/THEA/889), or permission

Advanced application of film lighting concepts and techniques.

Credit Hours: 3

Campus:

Course Delivery: Classroom

THEA

833**Advanced Costume Construction**[LINK \(http://bulletin.unl.edu/courses/THEA/833\)](http://bulletin.unl.edu/courses/THEA/833)

Credit Hours: 3

Course Format: Studio

Course Delivery: Classroom

THEA

835**Period Patterning**[LINK \(http://bulletin.unl.edu/courses/THEA/835\)](http://bulletin.unl.edu/courses/THEA/835)

Credit Hours: 3

Max credits per degree: 6

Course Format: Studio

Course Delivery: Classroom

THEA

836**Costume Rendering**[LINK \(http://bulletin.unl.edu/courses/THEA/836\)](http://bulletin.unl.edu/courses/THEA/836)

Practice in using various media and plate design; rendering techniques and costume plate experimentation to achieve variety in the portfolio, reflecting the mood and texture of each theatrical work.

Credit Hours: 3

Course Format: Studio

Course Delivery: Classroom

THEA

837**Costume Design III**[LINK \(http://bulletin.unl.edu/courses/THEA/837\)](http://bulletin.unl.edu/courses/THEA/837)**Prereqs:**

Advanced costume design techniques in specific types of performance arts.

Credit Hours: 3

Course Format: Studio

Course Delivery: Classroom

THEA

860**Script Analysis**[LINK \(http://bulletin.unl.edu/courses/THEA/860\)](http://bulletin.unl.edu/courses/THEA/860)**Prereqs:**

Permission

Systematic approach for analyzing a play based on the four works of Stanislavski.

Credit Hours: 3

Campus:

Course Delivery: Classroom

THEA

Director/Designer Communication[LINK \(http://bulletin.unl.edu/courses/THEA/863\)](http://bulletin.unl.edu/courses/THEA/863)

863**Prereqs:**
Undergraduate major in theatre

Projects, planning, and execution of various forms and styles involving the communication process between director and designer.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

THEA

864**Detailed Scene Work I**[LINK \(http://bulletin.unl.edu/courses/THEA/864\)](http://bulletin.unl.edu/courses/THEA/864)**Prereqs:**
12 hrs theatre arts

Practical work on scenes with actors and directors from selected realistic plays.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

THEA

865**Detailed Scene Work II**[LINK \(http://bulletin.unl.edu/courses/THEA/865\)](http://bulletin.unl.edu/courses/THEA/865)**Prereqs:**
12 hrs theatre arts

Further practical work on scenes with actors and directors, involving classical plays, verse drama, expressionistic pieces, or musical comedy.

Credit Hours: 3**Campus:****Course Delivery:** Classroom

THEA

870**Introduction to Pedagogy**[LINK \(http://bulletin.unl.edu/courses/THEA/870\)](http://bulletin.unl.edu/courses/THEA/870)

Introduces the graduate student to contemporary university level teaching theories and their classroom applications.

Credit Hours: 1**Campus:****Course Delivery:** Classroom

THEA

899**Masters Thesis**[LINK \(http://bulletin.unl.edu/courses/THEA/899\)](http://bulletin.unl.edu/courses/THEA/899)**Prereqs:**
Admission to masters degree program and permission of major adviser**Credit Hours:** 6-10**Campus:****Course Delivery:** Classroom

THEA

940**Seminar in Theatre Design**[LINK \(http://bulletin.unl.edu/courses/THEA/940\)](http://bulletin.unl.edu/courses/THEA/940)**Prereqs:**
Undergraduate major in theatre artsPrereq or parallel: [THEA 810 \(http://bulletin.unl.edu/courses/THEA/810\)](http://bulletin.unl.edu/courses/THEA/810), [812 \(http://bulletin.unl.edu/courses/THEA/812\)](http://bulletin.unl.edu/courses/THEA/812), [818 \(http://bulletin.unl.edu/courses/THEA/818\)](http://bulletin.unl.edu/courses/THEA/818) and [932 \(http://bulletin.unl.edu/courses/THEA/932\)](http://bulletin.unl.edu/courses/THEA/932). Problems and theories of scenery, costume, and lighting design for ballet, opera, musicals, and legitimate plays. Discussion of student projects and designed full-scale productions.**Credit Hours:** 1-3**Max credits per degree:** 12**Campus:****Course Delivery:** Classroom

THEA
956

Seminar in Theatre History

[LINK \(http://bulletin.unl.edu/courses/THEA/956\)](http://bulletin.unl.edu/courses/THEA/956)

Prereqs:

Undergraduate major in theatre arts including 9 hrs theatre history and evolution of dramatic theory

Specialized topics in theatre history.

Credit Hours:	1-3
Max credits per degree:	12
Campus:	
Course Delivery:	Classroom

THEA
957B

Playwrights

[LINK \(http://bulletin.unl.edu/courses/THEA/957B\)](http://bulletin.unl.edu/courses/THEA/957B)

Campus:	
Course Delivery:	Classroom

THEA
957D

Acting

[LINK \(http://bulletin.unl.edu/courses/THEA/957D\)](http://bulletin.unl.edu/courses/THEA/957D)

Campus:	
Course Delivery:	Classroom

THEA
960

Internship

[LINK \(http://bulletin.unl.edu/courses/THEA/960\)](http://bulletin.unl.edu/courses/THEA/960)

Prereqs:

Permission only

Practical projects related to a professional theatre organization.

Credit Hours:	3-12
Campus:	
Course Delivery:	Classroom

THEA
996

Research Problems Other Than Thesis

[LINK \(http://bulletin.unl.edu/courses/THEA/996\)](http://bulletin.unl.edu/courses/THEA/996)

Credit Hours:	1-6
Campus:	
Course Delivery:	Classroom

THEA
999

Doctoral Dissertation

[LINK \(http://bulletin.unl.edu/courses/THEA/999\)](http://bulletin.unl.edu/courses/THEA/999)

Prereqs:

Admission to doctoral degree program and permission of supervisory committee chair

Credit Hours:	1-24
Max credits per degree:	55
Campus:	
Course Delivery:	Classroom

Ω

Description

Johnny Carson School of Theatre and Film

For a brief description of the program, application requirements and contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TheatreArts).
(<http://www.unl.edu/gradstudies/prospective/programs/TheatreArts>)

School Director: Paul Steger, M.F.A.

Graduate Committee: Professors Grange (chair), Miller, Steger; Associate Professors Brown, Endacott, H. Smith, V. Smith, E. Stauffer, J. Stauffer, Teo; Assistant Professors Borden, Kolbe, Shoemaker, Veneziano; Assistant Professor of Practice Patterson

The Johnny Carson School of Theatre and Film offers graduate courses leading to the degree of master of fine arts.

Master of Fine Arts.

The requirements for the degree are as follows: 1) candidates must hold a bachelors degree with an undergraduate major in theatre from an accredited college or as approved by Graduate Committee; 2) at the time of application, the student must clearly state his/her degree objective, the curriculum in which he/she will work, and the area of specialization. Students applying in design and technical theatre should submit a portfolio of designs, production books, sketches, working drawings, and photographs. Applicants in acting must be auditioned and/or interviewed; 3) the completion of a minimum of 60 semester hours of credit in approved course work; 4) in lieu of a formal thesis, the production (under THEA 899) and submission of a body of original creative work in theatre of sufficient standard and related to the student's area of major interest; 5) the passing of a final examination, either written or oral, administered by the school, in the student's area of major interest.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/TheatreArts). (<http://www.unl.edu/gradstudies/prospective/programs/TheatreArts>)

Retrieved from "http://bulletin.unl.edu/graduate/Theatre_Arts (http://bulletin.unl.edu/graduate/Theatre_Arts)"
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Veterinary and Biomedical Sciences

Subject Areas

- [Integrative Biomedical Sciences \(IBMS\) \(#IBMS\)](#)
- [Veterinary and Biomedical Sciences \(VBMS\) \(#VBMS\)](#)

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Courses for IBMS (IBMS)

IBMS 999	Doctoral Dissertation	LINK (http://bulletin.unl.edu/courses/IBMS/999)
Prereqs: Admission to IBMS doctoral degree program and supervisory committee chair		
	Credit Hours:	1-24
	Max credits per degree:	55
	Campus:	
	Course Delivery:	Classroom

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Courses for VBMS (VBMS)

ASCI 442/842	Endocrinology Crosslisted as <i>BIOS 442/842, VBMS 842</i>	LINK (http://bulletin.unl.edu/courses/ASCI/442)
Prereqs: A course in vertebrate physiology and/or biochemistry.		
Mammalian endocrine glands from the standpoint of their structure, their physiological function in relation to the organism, the chemical nature and mechanisms of action of their secretory products, and the nature of anomalies manifested with their dysfunction.		
	Credit Hours:	3
	Course Format:	Lecture 3
	Course Delivery:	Classroom

ASCI 847	Interdisciplinary Concepts in Beef Production Crosslisted as <i>VBMS 847</i>	LINK (http://bulletin.unl.edu/courses/ASCI/847)
Prereqs: Degree in veterinary medicine or animal science, or allied agricultural degree, or permission		
	Credit Hours:	3
	Max credits per degree:	6
	Campus:	

Classroom attendance is required during each of the modules. Between modules distance education technologies (laptop computer, Internet access, a computer operating system with a word processor, spreadsheet, and presentation software, email, etc.) are used and required for discussion and assignments. The contributions and interactions of the major academic disciplines upon the production, performance, health, profitability, and sustainability of beef cow and cattle feeding operations.

A. I (3 cr)

B. II (3 cr) Prereq: VBMS *847A.

Course Delivery: Classroom

BIOS

420/820

Molecular Genetics

Crosslisted as *VBMS 820*

LINK (<http://bulletin.unl.edu/courses/BIOS/420>)

Prereqs:

12 hrs BIOS including [BIOS 206](http://bulletin.unl.edu/courses/BIOS/206)

(<http://bulletin.unl.edu/courses/BIOS/206>) or equivalent.

Molecular basis of genetics. Gene structure and regulation, transposable elements, chromosome structure, DNA replication, and repair mechanisms and recombination.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOS

440/840

Microbial Physiology

Crosslisted as *VBMS 840*

LINK (<http://bulletin.unl.edu/courses/BIOS/440>)

Prereqs:

[BIOS 312](http://bulletin.unl.edu/courses/BIOS/312) (<http://bulletin.unl.edu/courses/BIOS/312>) and either 313 or 314, or permission.

Molecular approaches to the study of prokaryotic cell structure and physiology, including growth, cell division, metabolism, and alternative microbial life styles.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOS

443/843

Immunology

Crosslisted as *VBMS 843*

LINK (<http://bulletin.unl.edu/courses/BIOS/443>)

Prereqs:

[BIOS 206](http://bulletin.unl.edu/courses/BIOS/206) (<http://bulletin.unl.edu/courses/BIOS/206>) and one semester organic chemistry.

[BIOS 102](http://bulletin.unl.edu/courses/BIOS/102) (<http://bulletin.unl.edu/courses/BIOS/102>) recommended.

Fundamental consideration of cellular and humoral mechanisms of immunity, the structure and function of immunoglobulins, antigen-antibody interactions; hypersensitivity; transplantation and tumor immunity; immune and autoimmune disorders.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

BIOS

816

Computer-Aided Sequence Analysis Primer

Crosslisted as *VBMS 818*

LINK (<http://bulletin.unl.edu/courses/BIOS/816>)

Prereqs:

[BIOC 831](http://bulletin.unl.edu/courses/BIOC/831) (<http://bulletin.unl.edu/courses/BIOC/831>) or [BIOS 801](http://bulletin.unl.edu/courses/BIOS/801) (<http://bulletin.unl.edu/courses/BIOS/801>) or [820](http://bulletin.unl.edu/courses/BIOS/820) (<http://bulletin.unl.edu/courses/BIOS/820>)

Introductory course in biological sequence display, analysis and manipulation with computers. Applied rather than theoretical aspects of different programs are emphasized providing skills to satisfy the analysis demands of molecular biology research. Students completing this course will be able to search, display and analyze the biological information content of macromolecules.

Credit Hours: 2

Campus:

Course Delivery: Classroom

BIOS
835

Animal Biochemistry

Crosslisted as *VBMS 835*

[LINK \(http://bulletin.unl.edu/courses/BIOS/835\)](http://bulletin.unl.edu/courses/BIOS/835)

Prereqs:

[BIOC 831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831) or permission

Biochemistry of animal cells and tissues, with integration of major metabolic pathways and aspects of their control mechanism.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

BIOS
942

Genetics, Genomics, and Bioinformatics of Prokaryotes

Crosslisted as *VBMS 942*

[LINK \(http://bulletin.unl.edu/courses/BIOS/942\)](http://bulletin.unl.edu/courses/BIOS/942)

Prereqs:

[BIOS 241 \(http://bulletin.unl.edu/courses/BIOS/241\)](http://bulletin.unl.edu/courses/BIOS/241) and [312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312), or permission

Prokaryotic gene regulation, DNA exchange, DNA recombination and repair, comparative prokaryotic genomics and computer-based methods of analysis.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS
950

Medical Molecular Virology

Crosslisted as *VBMS 950*

[LINK \(http://bulletin.unl.edu/courses/BIOS/950\)](http://bulletin.unl.edu/courses/BIOS/950)

Prereqs:

[BIOS/CHEM/BIOC 431 \(http://bulletin.unl.edu/courses/BIOC/431\)](http://bulletin.unl.edu/courses/BIOC/431)/[831 \(http://bulletin.unl.edu/courses/BIOC/831\)](http://bulletin.unl.edu/courses/BIOC/831) and [432 \(http://bulletin.unl.edu/courses/BIOC/432\)](http://bulletin.unl.edu/courses/BIOC/432)/[832 \(http://bulletin.unl.edu/courses/BIOC/832\)](http://bulletin.unl.edu/courses/BIOC/832); *VBMS *852*

Offered odd-numbered calendar years. Current topics in molecular virology relevant to the natural history and pathogenesis of viral diseases of humans and animals.

Credit Hours:	3
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

BIOS
964

Signal Transduction

Crosslisted as *VBMS 964*

[LINK \(http://bulletin.unl.edu/courses/BIOS/964\)](http://bulletin.unl.edu/courses/BIOS/964)

Prereqs:

[BIOS 832 \(http://bulletin.unl.edu/courses/BIOS/832\)](http://bulletin.unl.edu/courses/BIOS/832), [BIOS 820 \(http://bulletin.unl.edu/courses/BIOS/820\)](http://bulletin.unl.edu/courses/BIOS/820) or equivalent, or permission

Molecular basis of genetics in eukaryotes. Gene structure and regulation, transposable elements, chromosome structure, DNA replication and repair mechanisms and recombination.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

BIOS
966

Advanced Viral Pathogenesis

Crosslisted as *VBMS 966*

[LINK \(http://bulletin.unl.edu/courses/BIOS/966\)](http://bulletin.unl.edu/courses/BIOS/966)

Prereqs:

[BIOS 843 \(http://bulletin.unl.edu/courses/BIOS/843\)](http://bulletin.unl.edu/courses/BIOS/843); *VBMS 852 (http://bulletin.unl.edu/courses/VBMS/852)* or equivalent introductory course in virology or experience

Advanced analysis on the mechanisms of cell and tissue damage by viruses, the spread of viruses through the body, and the host response.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

VBMS
408/808

Functional Histology

Crosslisted as *BIOS 408/808*

[LINK \(http://bulletin.unl.edu/courses/VBMS/408\)](http://bulletin.unl.edu/courses/VBMS/408)

Prereqs:
[BIOS 101 \(http://bulletin.unl.edu/courses/BIOS/101\)](http://bulletin.unl.edu/courses/BIOS/101) and [101L \(http://bulletin.unl.edu/courses/BIOS/101L\)](http://bulletin.unl.edu/courses/BIOS/101L), or [102 \(http://bulletin.unl.edu/courses/BIOS/102\)](http://bulletin.unl.edu/courses/BIOS/102) or [112 \(http://bulletin.unl.edu/courses/BIOS/112\)](http://bulletin.unl.edu/courses/BIOS/112); [BIOS 213 \(http://bulletin.unl.edu/courses/BIOS/213\)](http://bulletin.unl.edu/courses/BIOS/213) or [ASCI 240 \(http://bulletin.unl.edu/courses/ASCI/240\)](http://bulletin.unl.edu/courses/ASCI/240), [BIOS 315 \(http://bulletin.unl.edu/courses/BIOS/315\)](http://bulletin.unl.edu/courses/BIOS/315) recommended.

Microscopic anatomy of the tissues and organs of major vertebrate species, including humans. Normal cellular arrangements of tissues and organs as related to their macroscopic anatomy and function, with reference to sub-cellular characteristics and biochemical processes. Functional relationships among cells, tissues, organs and organ systems, contributory to organismal well being. General introduction to pathological processes and principles underlying some diseases.

VBMS

424/824

Basic Molecular Infectious Diseases

[LINK \(http://bulletin.unl.edu/courses/VBMS/424\)](http://bulletin.unl.edu/courses/VBMS/424)

Prereqs:
[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312); [AGRO 360 \(http://bulletin.unl.edu/courses/AGRO/360\)](http://bulletin.unl.edu/courses/AGRO/360) or equivalent; or permission.

Offered spring semester of odd-numbered calendar years.

Introduction to the molecular, genetic and cellular aspects of microbial pathogenesis in humans and animals.

VBMS

441/841

Pathogenic Microbiology

Crosslisted as *BIOS 441/841*

[LINK \(http://bulletin.unl.edu/courses/VBMS/441\)](http://bulletin.unl.edu/courses/VBMS/441)

Prereqs:
[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312) and either [313](http://bulletin.unl.edu/courses/BIOS/313) or [314](http://bulletin.unl.edu/courses/BIOS/314), or permission.

Fundamental principles involved in host-microorganism interrelationships. Identification of pathogens, isolation, propagation, mode of transmission, pathogenicity, symptoms, treatment, prevention of disease, epidemiology, and methods of control.

VBMS

441L/841L

Pathogenic Microbiology Laboratory

[LINK \(http://bulletin.unl.edu/courses/VBMS/441L\)](http://bulletin.unl.edu/courses/VBMS/441L)

Prereqs:
[BIOS 312 \(http://bulletin.unl.edu/courses/BIOS/312\)](http://bulletin.unl.edu/courses/BIOS/312) and [313 \(http://bulletin.unl.edu/courses/BIOS/313\)](http://bulletin.unl.edu/courses/BIOS/313) (314) or permission.

Application of diagnostic microbiological techniques to the isolation, propagation and identification of common pathogens of human beings and animals. Case studies used, in the laboratory setting, to explore and test fundamentals of transmission, epidemiology and pathogenesis of selected infectious agents and to relate these to disease signs, treatments and methods of control.

VBMS

805

Introduction to Mechanisms of Disease

[LINK \(http://bulletin.unl.edu/courses/VBMS/805\)](http://bulletin.unl.edu/courses/VBMS/805)

Prereqs:
[ASCI 240 \(http://bulletin.unl.edu/courses/ASCI/240\)](http://bulletin.unl.edu/courses/ASCI/240) or equivalent, [BIOC/BIOS/CHEM 831 \(http://bulletin.unl.edu/courses/CHEM/831\)](http://bulletin.unl.edu/courses/CHEM/831), [VBMS/BIOS 841 \(http://bulletin.unl.edu/courses/BIOS/841\)](http://bulletin.unl.edu/courses/BIOS/841), or

Credit Hours: 4

Course Format: Lecture 3, Lab 2

Course Delivery: Classroom

Credit Hours: 3

Course Delivery: Classroom

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Credit Hours: 1

Course Delivery: Classroom

Credit Hours: 3

Course Format: Lecture 3

Campus:

permission

Course Delivery: Classroom

This course is a prerequisite for: [VBMS 975 \(http://bulletin.unl.edu/courses/VBMS/975\)](http://bulletin.unl.edu/courses/VBMS/975)

Offered odd-numbered calendar years. Designed for students of biological, animal, and veterinary sciences. Introduction to general pathology emphasizing etiology, pathogenesis, morphologic features, and fundamental alterations associated with the fundamental changes of disease.

VBMS
811

Introduction to Veterinary Epidemiology

[LINK \(http://bulletin.unl.edu/courses/VBMS/811\)](http://bulletin.unl.edu/courses/VBMS/811)

Prereqs:
Permission

Offered summer semester of odd-numbered years. Introduction to concepts of epidemiology including definition and uses of epidemiology. Casual web theory of causation discussed and compared to the Henle-Koch postulates. Students use sampling methods to define population characteristics, detect disease and test hypotheses. Practical application of confidence, power, and sample size. Use of descriptive epidemiology to discuss population characteristics.

Credit Hours: 2
Campus:
Course Delivery: Classroom

VBMS
847A

Interdisciplinary Concepts in Beef Production I

[LINK \(http://bulletin.unl.edu/courses/VBMS/847A\)](http://bulletin.unl.edu/courses/VBMS/847A)

Prereqs:
VBMS *847A

Credit Hours: 3
Campus:
Course Delivery: Classroom

VBMS
847B

Interdisciplinary Concepts in Beef Production II

[LINK \(http://bulletin.unl.edu/courses/VBMS/847B\)](http://bulletin.unl.edu/courses/VBMS/847B)

VBMS
848

Introduction to Veterinary Biotechnology

[LINK \(http://bulletin.unl.edu/courses/VBMS/848\)](http://bulletin.unl.edu/courses/VBMS/848)

Prereqs:
12 hours of veterinary and biomedical sciences or DVM degree, or equivalent and permission

Information and assignments for [VBMS 848 \(http://bulletin.unl.edu/courses/VBMS/848\)](http://bulletin.unl.edu/courses/VBMS/848) exchanged in the classroom and via Internet. Theoretical basis for emerging cellular, molecular and reproductive technologies, and their potential applications and impacts in the practice of food animal veterinary medicine.

Credit Hours: 1-2
Campus:
Course Delivery: Classroom

VBMS
852

Molecular Virology and Viral Pathogenesis

[LINK \(http://bulletin.unl.edu/courses/VBMS/852\)](http://bulletin.unl.edu/courses/VBMS/852)

Prereqs:
[BIOS 843 \(http://bulletin.unl.edu/courses/BIOS/843\)](http://bulletin.unl.edu/courses/BIOS/843)

This course is a prerequisite for: [BIOS 966 \(http://bulletin.unl.edu/courses/BIOS/966\)](http://bulletin.unl.edu/courses/BIOS/966)

Offered even-numbered calendar years. Introduction to virology with

Credit Hours: 3
Course Format: Lecture 3
Campus:
Course Delivery: Classroom

emphasis on molecular biology and pathogenesis. Concepts of virus replication strategies, virus–host interactions and virus pathogenesis.

VBMS

899

Masters Thesis

[LINK \(http://bulletin.unl.edu/courses/VBMS/899\)](http://bulletin.unl.edu/courses/VBMS/899)

Prereqs:
Admission to masters degree program and permission of major adviser

Credit Hours:	6–10
Campus:	
Course Delivery:	Classroom

VBMS

901

Diagnostic Techniques

[LINK \(http://bulletin.unl.edu/courses/VBMS/901\)](http://bulletin.unl.edu/courses/VBMS/901)

Application of the principles of pathology to current problems in the diagnostic laboratory.

Credit Hours:	1–10
Campus:	
Course Delivery:	Classroom

VBMS

908

T Cell Biology: Repertoire and Effector Functions

[LINK \(http://bulletin.unl.edu/courses/VBMS/908\)](http://bulletin.unl.edu/courses/VBMS/908)

Prereqs:
[BIOS 843 \(http://bulletin.unl.edu/courses/BIOS/843\)](http://bulletin.unl.edu/courses/BIOS/843) or permission

Offered even-numbered calendar years. Analysis of the literature of the cellular and molecular biology of T cell recognition and effector functions. Subject areas: Scientific Methodologies; Antigen Presentation; T Cell Receptor and Coreceptor; Thymic Structure and Self/Nonself Discrimination; T Cell Regulation; Allergy and Autoimmune Diseases; and T-Cell-Mediated Inflammation and Cytokine Network.

Credit Hours:	3
Campus:	
Course Delivery:	Classroom

VBMS

909

Seminar

[LINK \(http://bulletin.unl.edu/courses/VBMS/909\)](http://bulletin.unl.edu/courses/VBMS/909)

P/N only.

Credit Hours:	1–4
Campus:	
Course Delivery:	Classroom

VBMS

919

Regulation of Eukaryotic Gene Expression

[LINK \(http://bulletin.unl.edu/courses/VBMS/919\)](http://bulletin.unl.edu/courses/VBMS/919)

Prereqs:
1) [BIOC 818 \(http://bulletin.unl.edu/courses/BIOC/818\)](http://bulletin.unl.edu/courses/BIOC/818) or [820 \(http://bulletin.unl.edu/courses/BIOC/820\)](http://bulletin.unl.edu/courses/BIOC/820); 2) [BIOC 832 \(http://bulletin.unl.edu/courses/BIOC/832\)](http://bulletin.unl.edu/courses/BIOC/832); and 3) [BIOC 838 \(http://bulletin.unl.edu/courses/BIOC/838\)](http://bulletin.unl.edu/courses/BIOC/838) or [BIOS 837 \(http://bulletin.unl.edu/courses/BIOS/837\)](http://bulletin.unl.edu/courses/BIOS/837) or related laboratory experience

Offered even-numbered calendar years. Basic mechanisms regulating gene expression in eukaryotes during various physiological states. Emphasis on understanding specific and unique mechanisms in mammalian systems. Techniques used to study gene regulation.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

VBMS

Measurement of Animal Disease and Production

[LINK \(http://bulletin.unl.edu/courses/VBMS/920\)](http://bulletin.unl.edu/courses/VBMS/920)

920**Prereqs:**
VBMS *811 or permission

Offered odd-numbered calendar years. Measurements of disease and production, the basic tenants of epidemiology, taught in detail including incidence density, risk rates, morbidity, mortality, cause specific rates, and life tables. Methods and implications of measuring disease at the farm, regional, and national levels. Sampling strategies and the impact of these on the standard error of the estimate. Implications and biases of using retrospective production data versus prospective data. Clinical epidemiology which includes definition of tests in veterinary medicine, individual and herd level sensitivity and specificity, receiver operating characteristics curves, positive and negative predictive values, serial and parallel interpretation of tests, Kappa statistics, and issues of precision, validity, and accuracy.

Credit Hours:	2
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

VBMS

921**Analytic Observational Studies in Veterinary Epidemiology**[LINK \(http://bulletin.unl.edu/courses/VBMS/921\)](http://bulletin.unl.edu/courses/VBMS/921)**Prereqs:**
VBMS *811 and 920; or permission

Offered odd-numbered calendar years. Design, implementation, and analysis of cross-sectional, cohort, and case-control studies and field trials. Limitations, biases, implications of the results, and current uses of each. Evaluation of these methods as used in the scientific literature. Analyses includes chi-square tests, Cochran Chi-square tests, and epidemiologic measures of strength of association, effect, and total effect. Design, implementation, analysis and interpretation of field trials taught specifically as they relate to the practitioner.

Credit Hours:	2
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

VBMS

925**Critical Reading of the Epidemiology Literature**[LINK \(http://bulletin.unl.edu/courses/VBMS/925\)](http://bulletin.unl.edu/courses/VBMS/925)**Prereqs:**
VBMS *811 or 920; or permission

May be repeated for credit. Analysis of current epidemiology and animal health literature. Critical evaluation of study design, methods of analysis, biases, field applicability, and basis for conclusions.

Credit Hours:	1
Max credits per degree:	4
Campus:	
Course Delivery:	Classroom

VBMS

930**Advanced Food Animal Production Medicine**[LINK \(http://bulletin.unl.edu/courses/VBMS/930\)](http://bulletin.unl.edu/courses/VBMS/930)**Prereqs:**
Permission

Offered spring semester of even-numbered calendar years. Inter-relationships between animal health, disease, and well-being as they relate to the productivity and profitability of food animal production units. Integrates aspects of veterinary medicine, animal science, and agricultural economics. General concepts related to cattle, swine and sheep production systems, followed by specific issues that relate to different species.

Credit Hours:	2
Course Format:	Lab, Lecture
Campus:	
Course Delivery:	Classroom

VBMS

944**Immunovirology**[LINK \(http://bulletin.unl.edu/courses/VBMS/944\)](http://bulletin.unl.edu/courses/VBMS/944)**Prereqs:**
Permission; organic chemistry; biochemistry; immunology and/or concepts in virology and virolopathogenesis

Credit Hours:	3
Course Format:	Lecture 3

Pathogenic microbiology recommended. Description of virus and immune system interactions, with emphasis on mouse and human models. Mechanism of antigen presentation of viral proteins and relationship to health and disease. Analysis of the hosts immune response to selected viral infections of the major systems: neural, respiratory, gastrointestinal and immune.

Campus:	
Course Delivery:	Classroom

VBMS

948

Concepts in Experimental Immunology

[LINK \(http://bulletin.unl.edu/courses/VBMS/948\)](http://bulletin.unl.edu/courses/VBMS/948)

Prereqs:

[BIOS 843 \(http://bulletin.unl.edu/courses/BIOS/843\)](http://bulletin.unl.edu/courses/BIOS/843) or permission

Recent advances in immunological techniques and review of conventional methods.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

VBMS

949

Vaccinology

[LINK \(http://bulletin.unl.edu/courses/VBMS/949\)](http://bulletin.unl.edu/courses/VBMS/949)

Prereqs:

[VBMS/BIOS 841 \(http://bulletin.unl.edu/courses/BIOS/841\)](http://bulletin.unl.edu/courses/BIOS/841); [BIOS 843 \(http://bulletin.unl.edu/courses/BIOS/843\)](http://bulletin.unl.edu/courses/BIOS/843), [VBMS 843 \(http://bulletin.unl.edu/courses/VBMS/843\)](http://bulletin.unl.edu/courses/VBMS/843); [VBMS/BIOS 852 \(http://bulletin.unl.edu/courses/BIOS/852\)](http://bulletin.unl.edu/courses/BIOS/852); or permission

Analysis of the theory and mechanisms involved in the development of efficacious vaccines. Microbiological and immunological aspects as well as the manufacturing and regulatory aspects of vaccine development.

Credit Hours:	2
Course Format:	Lecture
Campus:	
Course Delivery:	Classroom

VBMS

951

Advanced Molecular Infectious Diseases

[LINK \(http://bulletin.unl.edu/courses/VBMS/951\)](http://bulletin.unl.edu/courses/VBMS/951)

Prereqs:

[BIOC 832 \(http://bulletin.unl.edu/courses/BIOC/832\)](http://bulletin.unl.edu/courses/BIOC/832) or equivalent; **18 hours of biological, biomedical and/or veterinary sciences, including fundamental microbiology and genetics; or permission**

[VBMS 824 \(http://bulletin.unl.edu/courses/VBMS/824\)](http://bulletin.unl.edu/courses/VBMS/824) and [843 \(http://bulletin.unl.edu/courses/VBMS/843\)](http://bulletin.unl.edu/courses/VBMS/843) or equivalent recommended. Offered spring semester of even-numbered years. Molecular and cellular aspects of microbial pathogenesis. Key literature, synthesis of scientific problems into research proposals.

Credit Hours:	3
Course Format:	Lecture 3
Campus:	
Course Delivery:	Classroom

VBMS

975

Seminar in Veterinary Histopathology

[LINK \(http://bulletin.unl.edu/courses/VBMS/975\)](http://bulletin.unl.edu/courses/VBMS/975)

Prereqs:

[VBMS 805 \(http://bulletin.unl.edu/courses/VBMS/805\)](http://bulletin.unl.edu/courses/VBMS/805), or equivalent and permission

May be repeated for credit. Descriptive veterinary histopathology covering diseases of all body systems in animal species including domestic, laboratory, wildlife, birds, fishes, reptiles, and amphibians. Source material is worldwide in scope.

Credit Hours:	1
Course Format:	Lecture 1
Campus:	
Course Delivery:	Classroom

VBMS

996

Research on Selected Problems in Veterinary Science

[LINK \(http://bulletin.unl.edu/courses/VBMS/996\)](http://bulletin.unl.edu/courses/VBMS/996)

Credit Hours:	2-10
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Campus:	
Course Delivery:	Classroom

VBMS
998

Special Topics in Veterinary Science

[LINK \(http://bulletin.unl.edu/courses/VBMS/998\)](http://bulletin.unl.edu/courses/VBMS/998)

**Prereqs:
Permission**

The subject will be dependent on student demand and availability of staff. Reviews of specialized subject areas.

Credit Hours:	1-10
Campus:	
Course Delivery:	Classroom

VMED
630

Veterinary Anatomy I

Crosslisted as *VBMS 830*

[LINK \(http://bulletin.unl.edu/courses/VMED/630\)](http://bulletin.unl.edu/courses/VMED/630)

Prereqs:
For VBMS *830: none. For VMED 630: First year standing in the Professional Program in Veterinary Medicine

This course is a prerequisite for: [VMED 630 \(http://bulletin.unl.edu/courses/VMED/630\)](http://bulletin.unl.edu/courses/VMED/630)

Comparative and topographic anatomy of the dog, cat, and pig.

Credit Hours:	6
Course Format:	Lab 6, Lecture 3
Campus:	
Course Delivery:	Classroom

VMED
645

Animal Physiology I

Crosslisted as *BIOS 813, ASCI 845, VBMS 845*

[LINK \(http://bulletin.unl.edu/courses/VMED/645\)](http://bulletin.unl.edu/courses/VMED/645)

Prereqs:
For ASCI/VBMS *845/BIOS *813: An undergraduate course in biochemistry or biology or physiology. For VMED 645: First year standing in and admission to VMED.

This course is a prerequisite for: [VMED 645 \(http://bulletin.unl.edu/courses/VMED/645\)](http://bulletin.unl.edu/courses/VMED/645)

Primarily for students in animal or biological sciences or veterinary medicine.

Mammalian physiology and cellular mechanisms. Physiology of the cell, embryology, and neuro-sensory, neuromuscular, endocrine, and reproductive systems.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

VMED
646

Animal Physiology II

Crosslisted as *BIOS 814, ASCI 846, VBMS 846*

[LINK \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646)

Prereqs:
For ASCI/VBMS *846/BIOS *814: An undergraduate course in biochemistry or biology or physiology. For VMED 646: First year standing in and admission to VMED.

This course is a prerequisite for: [VMED 646 \(http://bulletin.unl.edu/courses/VMED/646\)](http://bulletin.unl.edu/courses/VMED/646)

*ASCI/VBMS *846/BIOS *814/VMED 646 (http://bulletin.unl.edu/courses/VMED/646) is designed for students in animal or biological sciences or veterinary medicine.*

Mammalian physiology and cellular mechanisms. Physiology of the digestive, cardiovascular, respiratory, and renal systems.

Credit Hours:	4
Course Format:	Lab 3, Lecture 3
Campus:	
Course Delivery:	Classroom

Description

For a brief description of the program, application requirements and contact information, view the [graduate program summary \(http://www.unl.edu/gradstudies/prospective/programs/VeterinaryAndBiomedSciences\)](http://www.unl.edu/gradstudies/prospective/programs/VeterinaryAndBiomedSciences)

Director: David Hardin, D.V.M.

Graduate Committee: Pickard (chair); Associate Professors Keen, Reddy, Somerville

The Department offers master of science and doctor of philosophy degrees with courses of study offered in virology, bacteriology, immunology, molecular biology, neurobiology, redox biology, pathology, epidemiology, and biomedical sciences/biochemistry. The master of science in veterinary science program is offered through Option I, Option II and Option III. The Department administers the interdepartmental doctoral program in Integrative Biomedical Sciences through which it offers the PhD degree. Biochemistry and/or biostatistics courses are required for the MS and PhD degree depending on the student's field of study with the rest of the program of study tailored to the student's research interests and career goals, upon approval by the student's Graduate Supervisory Committee.

There is no generally specified language or research skill required for the PhD, but each student must meet the requirements set by the Graduate College, and approved by the Supervisory Committee, the Department and the Integrative Biomedical Sciences graduate committee.

In addition to the general requirements of the Graduate College, applicants for the MS and PhD degrees must submit scores from the Graduate Record Examination. All candidates for advanced degrees must engage in disciplinary training and research as a part of their program.

Applicants are encouraged to send a letter to the chair of the Graduate Committee describing their background, experience, and personal and academic goals in pursuing graduate study.

In addition to the courses listed below, STAT 801 and 802 or BIOC 831 and 832, or one of each, may be used as part of the course work constituting a major in veterinary science (MS) or Integrative Biomedical Sciences (PhD).

Cooperative Program in Veterinary Science

The University of Nebraska–Lincoln (UNL), College of Agricultural Sciences and Natural Resources is home to Nebraska's component of the Cooperative Program in Veterinary Medicine with Iowa State University (ISU). Students in this program begin their professional education on the UNL campus and will earn the 4-year doctor of veterinary medicine degree after continued study at ISU, College of Veterinary Medicine. The arrangement maintains tuition at the rate of ISU's in-state professional tuition rate all four years.

This innovative program, whose inaugural class of 25 Nebraska residents entered the fall semester of 2007, is the first of its kind in the United States. Program planning and development was jointly undertaken by the University of Nebraska as well as Iowa State University and has been reviewed and approved by the American Veterinary Medical Association's Council on Education. This approval insures that successful students in this program will meet requirements to take the North American Veterinary Licensure Exam (NAVLE) and subsequently attain licensure to practice veterinary medicine.

Though every professional veterinary program must provide a core curriculum, the unique opportunities provided by this program allow students to have more hands-on experience and a broader range of opportunities than some of their counterparts. Faculty at UNL are devoted to student learning and provide a strong basic science curriculum as the foundation for their veterinary students. While UNL's departments of School of Veterinary and Biomedical Sciences, Animal Science and Entomology form the core of this program, individuals and resources throughout UNL contribute to student success. Located on the University's East Campus, the Cooperative Program in Veterinary Medicine offers updated facilities, state-of-the-art teaching resources and convenient access to the C.Y. Thompson Library. Other UNL facilities, such as Great Plains Veterinary Educational Center (GPVEC) at Clay Center, NE and the Agricultural Research and Development Center (ARDC) at Mead, NE, provide opportunities for enhanced learning through participation in animal health activities during the first two years of their professional education.

For more information about this program and admission requirements, please refer to <http://vetmed.unl.edu> (<http://vetmed.unl.edu>) or call 402-472-7211.

Faculty

For faculty list, research interests and department contact information, view the [graduate program summary](http://www.unl.edu/gradstudies/prospective/programs/VeterinaryAndBiomedSciences). (<http://www.unl.edu/gradstudies/prospective/programs/VeterinaryAndBiomedSciences>)

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Water Resources Planning and Management

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Description

(Interdepartmental Area)

An intra-university masters-level minor with emphasis on water resources planning and management. Each student will be required to complete: 1) a major in one of the departments with approval to offer option as a minor or specialization; 2) 9 hours of water resources-related courses from departments outside the student's major field (6 hours of which must be from those courses marked with a "+") and approved by the Water Resources Advisory Committee; and 3) a thesis oriented toward water resources planning and management, or under special circumstances, an alternative to a thesis which first must be approved.

The masters degree will be granted in one of the disciplines. The student must be formally registered in one of the departments with approval to offer the option as a minor or specialization. The recommended masters degree option is I (thesis) but other options may be approved. The minor or specialization can be noted on the student's final transcript, for example, civil engineering (water resources planning and management).

Departments with Approval to Offer Option as a Minor or Specialization:

Agricultural Economics, Agronomy/Horticulture, Animal Science, Biological Sciences, Biological Systems Engineering, Civil Engineering, Community and Regional Planning, Geography, Geosciences, Mathematics, Political Science, School of Natural Resources, and Sociology.

A Water Resources Advisory Committee coordinates the interdisciplinary aspects of the minor/specialization. The Director of the Nebraska Water

Center/Environmental Programs in the School of Natural Resource Sciences serves as chair with one member from each participating department. Approval of individual student program of studies, degree option, and thesis topics (if applicable) will have the concurrence of the student's major department and the chair of the advisory committee. One member of the student's examining committee will be appointed from the Water Resources Advisory Committee. This member cannot be from the student's major department.

Examples of courses in water resources to comprise the 9-hour minor or specialization are listed below according to departments. Course descriptions and prerequisites are contained in the appropriate departmental listings. Courses below, and courses other than those listed below, may be included as part of the 9-hour minor or specialization with concurrence of the Advisory Committee chair and the student's major department representative to the Advisory Committee.

Courses may require technical prerequisites; check bulletin listings for details. Students may take courses cross listed in an outside department to meet minor or specialization requirements.

Offered in the Department of Agricultural Economics

- 856. Environmental Law
- 857. Water Law+
- 865. Resource & Environmental Economics II

Offered in the Department of Agronomy/Horticulture

- 808. Microclimate: The Biological Environment
- 825. Turfgrass Science & Culture
- 850. Climate & Society
- 855. Soil Chemistry & Mineralogy
- 861. Soil Physics (NRES, GEOL 861; SOIL, WATS 461)
- 875. Water Quality Strategy+ (CIVE, CRPL, GEOL, MSYM, NRES, POLS, SOCI 875; SOIL, WATS 475)
- 920. Pesticide Dissipation in Soils & Plants
- 961. Advanced Soil Physics

Offered in the School of Biological Sciences

- 859. Limnology
- 860. Advanced Limnology+
- 873. Freshwater Algae
- 885. Aquatic Insects

Offered by the Department of Biological Systems Engineering

- 853. Irrigation & Drainage Systems Engineering
- 855. Nonpoint Source Pollution Control Engineering
- 941. Agricultural Waste Management
- 954. Turbulent Transfer in the Atmospheric Surface Layer

Offered in the Department of Civil Engineering

- 821. Hazardous Waste Management
- 822. Hazardous Waste Treatment
- 823. Physical/Chemical Treatment Processes in Environmental Engineering
- 824. Solid Waste Management Engineering
- 826. Design of Water Treatment Facilities
- 827. Design of Wastewater Treatment & Disposal Facilities
- 828. Quantitative Methods in Environmental Engineering
- 829. Biological Waste Treatment
- 830. Fundamentals of Water Quality Modeling
- 852. Water Resources Development+
- 853. Hydrology+
- 854. Hydraulic Engineering
- 855. Nonpoint Source Pollution Control Engineering (BSEN 855)
- 856. Surface Water Hydrology
- 858. Groundwater Engineering
- 875. Water Quality Strategy+
- 915. Water Resources Engineering
- 916. Interdisciplinary Seminar in Engineering: Economic & Legal Aspects of Water Resources Systems+ (LAW 774G)
- 921. Advanced Topics in Hazardous Waste Treatment
- 926. Advanced Topics in Water Treatment
- 927. Advanced Topics in Wastewater Treatment
- 929. Industrial Waste Laboratory
- 930. Advanced & Industrial Wastewater Treatment
- 952. Water Resources Planning+
- 954. Advanced Hydraulics
- 955. Solute Movement in Soils (AGRO, AGEN 955; GEOL 985)
- 958. Groundwater Mechanics
- 959. Groundwater Modeling

Offered in the Department of Community and Regional Planning

- 870. Environmental Planning & Policy
- 872. Environmental Survey & Analysis
- 875. Water Quality Strategy+

Offered in the Department of Geography

- 812. Intro to Geographic Information Systems

- 818. Intro to Remote Sensing
- 819. Applications of Remote Sensing in Agriculture & Natural Resources
- 820. Remote Sensing III: Digital Image Analysis
- 822. Advanced Techniques in Geographic Information Systems
- 881. Water Resources Seminar+

Offered in the Department of Geosciences

- 815. Water Resources Seminar+
- 850. Climate & Society
- 851. Severe Storms Meteorology–Climatology
- 852. Synoptic Meteorology
- 853. Physical Climatology
- 854. Regional Climatology
- 861. Soil Physics
- 868. Satellite Meteorology
- 875. Water Quality Strategy+
- 888. Groundwater Geology+
- 889. Hydrogeology
- 953. Seminar in Meteorology & Climatology
- 954. Seminar in Climatic Change
- 987. Seminar in Hydrogeology

Offered in the School of Natural Resources

- 808. Microclimate: The Biological Environment (AGRO, GEOG, HORT, MSYM, NRES 808)
- 810. Landscape Ecology
- 815. Water Resources Seminar+ (AGRO, GEOG 881; GEOL 815)
- 817. Agroforestry Systems in Sustainable Agriculture
- 852. Climate & Society (AGRO, GEOG 850)
- 859. Limnology+ (BIOS 859)
- 866. Advanced Limnology (BIOS 860)
- 863. Fisheries Science+
- 864. Fisheries Biology (BIOS 862)
- 868. Wetlands+
- 875. Water Quality Strategy+
- 889. Ichthyology (BIOS 891)
- 907. Agricultural Climatology
- 908. Solar Radiation Interactions at the Earth's Surface
- 954. Turbulent Transfer in the Atmospheric Layer (BSEN 958)

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Women's and Gender Studies

Q Courses for WMNS (WMNS)

ANTH	Cross-Cultural Mentoring I	LINK (http://bulletin.unl.edu/courses/ANTH/408)
408/808	Crosslisted as <i>WMNS 408/808</i>	

ANTH/WMNS 408 (<http://bulletin.unl.edu/courses/WMNS/408>)/*808*
 (<http://bulletin.unl.edu/courses/WMNS/808>) requires weekly meetings with
 mentee. Pairs UNL student with a refugee and/or immigrant and/or minority
 K-12 student or adult.

Work with a refugee and/or immigrant and/or minority K-12 student or
 adult to assist them with the culture transition process, the educational
 process, problem-solving techniques, and community resources.

Credit Hours:	3
Course Format:	Field
Course Delivery:	Classroom
ACE Outcomes:	8 [?]
Groups:	Cultural Anthropology

ANTH	Cross-Cultural Mentoring II	LINK (http://bulletin.unl.edu/courses/ANTH/409)
409/809	Crosslisted as <i>WMNS 409/809</i>	

Prereqs:
ANTH/WMNS 408 (<http://bulletin.unl.edu/courses/WMNS/408>)/**808**
 (<http://bulletin.unl.edu/courses/WMNS/808>).

ANTH/WMNS 409 (<http://bulletin.unl.edu/courses/WMNS/409>)/*809*
 (<http://bulletin.unl.edu/courses/WMNS/809>) requires weekly meetings with

Credit Hours:	3
Course Format:	Field
Course Delivery:	Classroom
Groups:	Cultural

mentee. Continuation of ANTH/*WMNS 408*
<http://bulletin.unl.edu/courses/WMNS/408/808>
<http://bulletin.unl.edu/courses/WMNS/808>.

Continuation of work with refugee and/or immigrant and/or minority K-12 student or adult to assist them with the educational process and/or culture transition.

ANTH
410/810 **Women and Men: An Anthropological Perspective**
 Crosslisted as *WMNS 410/810*

[LINK \(http://bulletin.unl.edu/courses/ANTH/410\)](http://bulletin.unl.edu/courses/ANTH/410)

Prereqs:
9 hrs ANTH.

Cross-cultural meaning and impact of gender definition, with emphasis on women. Gender as a correlate of biology, language, economic systems, social and political structures, and belief systems.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Cultural Anthropology

CLAS
440/840 **Gender and Sexuality in the Ancient World**
 Crosslisted as *WMNS 440/840*

[LINK \(http://bulletin.unl.edu/courses/CLAS/440\)](http://bulletin.unl.edu/courses/CLAS/440)

Ancient Greek and Roman evidence pertaining to the fields of women's studies, gender studies, and the study of sexuality.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

CYAF
447/847 **Working with GLBT Youth in Professional Contexts**
 Crosslisted as *WMNS 447/847*

[LINK \(http://bulletin.unl.edu/courses/CYAF/447\)](http://bulletin.unl.edu/courses/CYAF/447)

To introduce contextual considerations and research-informed guidelines for working with Gay, Lesbian, Bisexual, and Transgender youth in professional settings such as educational, mental health, medical, and community outreach. The systemic context of GLBT youth, including developmental transitions, unique stressors, peer relationships, and familial environments, will be explored. Ways to help GLBT youth thrive will be emphasized.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ECON
445/845 **Gender, Economics, and Social Provisioning**
 Crosslisted as *WMNS 445/845*

[LINK \(http://bulletin.unl.edu/courses/ECON/445\)](http://bulletin.unl.edu/courses/ECON/445)

Prereqs:
ECON 211 (<http://bulletin.unl.edu/courses/ECON/211>) or **ECON 212** (<http://bulletin.unl.edu/courses/ECON/212>).

Introduction to the field of feminist economics. Critiques of economic theory and methodology along with gender and household decision-making, the care economy, international migration, development, globalization, the feminization of labor markets, and macroeconomics.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	General Economics and Theory

ENGL
414/814 **Women's Literature**
 Crosslisted as *WMNS 414*

[LINK \(http://bulletin.unl.edu/courses/ENGL/414\)](http://bulletin.unl.edu/courses/ENGL/414)

Prereqs:
Junior standing.

A particular historical or other groups of literature by and about women, seen in their aesthetic and intellectual context.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

ENGL
414B/814B

Modern and Contemporary Women Writers

Crosslisted as *WMNS 414B/814B*

[LINK \(http://bulletin.unl.edu/courses/ENGL/414B\)](http://bulletin.unl.edu/courses/ENGL/414B)

Prereqs:
Junior standing.

Selected women writers from the twentieth and twenty-first century.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Literary and Cultural Studies

ENGL
475A/875A

Rhetorical Theory: Rhetoric of Women Writers

Crosslisted as *WMNS 475A/875A*

[LINK \(http://bulletin.unl.edu/courses/ENGL/475A\)](http://bulletin.unl.edu/courses/ENGL/475A)

Prereqs:
Junior standing.

Rhetoric and rhetorical theory of women writers and speakers and its implications for literature, composition, literacy, feminist theory, and women's and gender studies.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	Writing, Rhetoric, and Culture

HIST
402/802

Sexuality in Nineteenth and Twentieth Century America

Crosslisted as *WMNS 402/802*

[LINK \(http://bulletin.unl.edu/courses/HIST/402\)](http://bulletin.unl.edu/courses/HIST/402)

Sexual practices and ideologies in American history from the 1800's to the present.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST
436/836

Saints, Witches, and Madwomen

Crosslisted as *WMNS 436/836*

[LINK \(http://bulletin.unl.edu/courses/HIST/436\)](http://bulletin.unl.edu/courses/HIST/436)

Prereqs:
Junior standing or permission.

Pre-1800 content.

Image of the madwoman throughout European and American history. Emphasis on how women on the margins have been labelled in different periods as saintly, as witches, or as insane.

Credit Hours:	3
Course Format:	Lecture
Course Delivery:	Classroom
Groups:	European History, Pre-1800

HIST
441/841

Seminar in U.S. Women's and Gender History

Crosslisted as *WMNS 441/841*

[LINK \(http://bulletin.unl.edu/courses/HIST/441\)](http://bulletin.unl.edu/courses/HIST/441)

In-depth, advanced thematic seminar that cultivates historical research and writing skills.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom
Groups:	United States or Canadian History

HIST
459/859

Women and Gender in African Societies

Crosslisted as *ETHN 459, WMNS 459/859*

[LINK \(http://bulletin.unl.edu/courses/HIST/459\)](http://bulletin.unl.edu/courses/HIST/459)

Explores how the contemporary women's movement has emerged within Africa and its relationship to social change.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

Groups: Latin American, Asian, Middle Eastern or African History

HIST

476A/876A

Gender and Sexuality in Latin America

Crosslisted as *ETHN 476A*, *WMNS 476A/876A*

[LINK \(http://bulletin.unl.edu/courses/HIST/476A\)](http://bulletin.unl.edu/courses/HIST/476A)

Prereqs:
Junior standing.

Experience of femininity and masculinity compared according to time and place, revealing the intimate connections with nation, modernity, race, and ethnicity.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

HIST

951

History of Women and Gender

Crosslisted as *WMNS 951*

[LINK \(http://bulletin.unl.edu/courses/HIST/951\)](http://bulletin.unl.edu/courses/HIST/951)

A comparative approach, offering readings on a central theme from a variety of periods and/or areas. Themes vary.

Credit Hours: 3

Campus:

Course Delivery: Classroom

PSYC

421/821

Psychology of Gender

Crosslisted as *WMNS 421/821*

[LINK \(http://bulletin.unl.edu/courses/PSYC/421\)](http://bulletin.unl.edu/courses/PSYC/421)

Prereqs:
12 hrs PSYC.

Theory and research on the role of gender in human behavior and attitudes. Diverse theoretical positions on the development of gender and the biological, social, and cultural bases that influence the relationship between gender and a variety of areas of human experience (e.g., intelligence and achievement, emotion, relationships, sexuality, physical fitness, stress, and coping).

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

TMFD

410/810

Socio-Psychological Aspects of Clothing

Crosslisted as *WMNS 410A/810A*

[LINK \(http://bulletin.unl.edu/courses/TMFD/410\)](http://bulletin.unl.edu/courses/TMFD/410)

Prereqs:
Senior standing; 3 hrs PSYC or SOCI; [TMFD 123 \(http://bulletin.unl.edu/courses/TMFD/123\)](http://bulletin.unl.edu/courses/TMFD/123).

Theories and research findings about the social and psychological aspects of clothing and appearance in relation to the self and others.

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

WMNS

485/885

Feminist Theories, Feminists' Perspectives

[LINK \(http://bulletin.unl.edu/courses/WMNS/485\)](http://bulletin.unl.edu/courses/WMNS/485)

Prereqs:
WMNS major or minor.

Introduction to feminist and gender theory. Important theoretical frameworks upon which Women's Studies is based and the implications of

Credit Hours: 3

Course Format: Lecture 3

Course Delivery: Classroom

these theories in practice.

WMNS

497/897

Internship in Women's and Gender Studies

[LINK \(http://bulletin.unl.edu/courses/WMNS/497\)](http://bulletin.unl.edu/courses/WMNS/497)

Prereqs:
Permission.

WMNS 497 (<http://bulletin.unl.edu/courses/WMNS/497>)/897 (<http://bulletin.unl.edu/courses/WMNS/897>) is Pass/No Pass only.

Experiential and service learning designed to deepen understanding of classroom concepts related to study of women and gender in society.

Credit Hours:	1-6
Max credits per degree:	6
Course Format:	Field
Course Delivery:	Classroom

WMNS

498/898

Special Topics in Women's and Gender Studies

[LINK \(http://bulletin.unl.edu/courses/WMNS/498\)](http://bulletin.unl.edu/courses/WMNS/498)

Topics vary.

Credit Hours:	2-3
Max credits per degree:	6
Course Format:	Lecture
Course Delivery:	Classroom

WMNS

891

Special Topics in Women's and Gender Studies

[LINK \(http://bulletin.unl.edu/courses/WMNS/891\)](http://bulletin.unl.edu/courses/WMNS/891)

Advanced graduate level seminar in Women's and Gender Studies. Topics vary by semester.

Credit Hours:	3
Course Format:	Lecture 3
Course Delivery:	Classroom

WMNS

896

Independent Study in Women's and Gender Studies

[LINK \(http://bulletin.unl.edu/courses/WMNS/896\)](http://bulletin.unl.edu/courses/WMNS/896)

Prereqs:
Permission

Individual or group study on a topic in Women's and Gender Studies under supervision and evaluation of a Women's and Gender Studies faculty member.

Credit Hours:	1-3
Max credits per degree:	3
Course Format:	Independent Study
Campus:	
Course Delivery:	Classroom

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Description

For a brief description of the program and contact information, view the [Women's and Gender Studies](http://www.unl.edu/womensp/graduate.shtml) (<http://www.unl.edu/womensp/graduate.shtml>) web page.

Director: Chantal Kalisa

Associate Director: Rose Holz

The specialization or minor in Women's and Gender Studies provides graduate students from diverse disciplines with opportunities to broaden and enrich analytical skills in one or more disciplines while drawing on the interdisciplinary perspectives of Women's and Gender Studies. Courses offer a simultaneous focus on issues of gender, race, ethnicity, class, global feminism, and sexual orientation and offer models of scholarship, pedagogy, and professional activity that help students seeking employment in a variety of occupations related to women's and gender issues.

Women's and Gender Studies faculty supervise the specialization and minor through the Women's and Gender Studies Advisory Board chaired by the director and in consultation with the Curriculum Committee as described in Women's and Gender Studies by-laws.

Approval of students' programs is the shared responsibility of the Women's and Gender Studies Advisory Board and the student's examination/supervisory

committee. Students must apply by letter to their department Graduate Chair and the Director of the Women's and Gender Studies Program. Advising will be by the students' designated adviser within the home department in consultation with the Director of Women's and Gender Studies. Students will submit their proposed program of study for the specialization to the Director of the Women's and Gender Studies Program for formal approval of the Advisory Board. This is normally done when completing the Memorandum of Courses for the MA and filing the Program of Studies for the PhD.

Admission to a department with a graduate program at the University of Nebraska–Lincoln is required for participation in the specialization or minor.

Masters–level Specialization Requirements:

An intradisciplinary masters–level specialization or minor in Women's and Gender Studies is available to any student pursuing a masters degree, with approval from the graduate chair in the home department. Each student will be required to complete:

1. Requirements for an MA in a UNL department.
2. Nine credit hours of graduate courses on women and gender outside the student's major department approved by the Women's and Gender Studies Advisory Board. Substitutions may be made with the permission of the Advisory Board. Under Graduate College rules, both Options I and II offer possibilities for completing the graduate specialization or minor without adding additional hours of course work.<br.
3. If option I (thesis) is chosen, the thesis must address some issue(s) relevant to Women's and Gender Studies. The student must deposit a copy of the thesis with Women's and Gender Studies.
4. Confirmation to the Women's and Gender Studies office that all requirements for the specialization or minor have been met by the middle of the final semester.

Successful completion of the specialization or the minor will be indicated on the students' official transcript in parentheses following the name of the students' academic discipline.

Doctoral Degree Program Requirements:

Either an intradisciplinary doctoral–level specialization or minor in Women's and Gender Studies is available to any student pursuing a PhD degree, with approval of the graduate chair in the home department. Each student will be required to complete:

1. Requirements for a PhD in a UNL department.
2. For the specialization, twelve credit hours of courses on women and gender outside the student's major department approved by the Women's and Gender Studies Advisory Board. For the minor, twelve credit hours of courses on women and gender outside the student's major department approved by the Women's and Gender Studies Advisory Board, with six hours in courses open exclusively to graduate students. Substitutions may be made with the permission of the Advisory Board. Graduate College rules provide various options within the PhD that allow students to complete the graduate specialization or the graduate minor without adding additional hours, subject to the approval of the supervisory committee. These include supporting courses in a related field, minor field courses, and/or collateral field courses.
3. The dissertation should address some issue(s) relevant to Women's and Gender Studies. The student must deposit a copy of the dissertation with Women's and Gender Studies
4. Confirmation to the Women's and Gender Studies office that all requirements for the specialization or minor have been met by the middle of the final semester.

Successful completion of the specialization or minor will be indicated on the students' official transcript in parentheses following the name of the students' academic discipline.

Women's and Gender Studies faculty and application procedures, plus other information, may be found at: www.unl.edu/womenssp.

Additional Courses:

In addition to the courses listed on the 'Courses' tab above, these courses also count toward a specialization or minor in Women's and Gender Studies. Course descriptions can be found in each department's pages in the Graduate Bulletin. With the approval of the Women's and Gender Studies Advisory Board, students may also substitute courses or seminars with appropriate subtitles or emphases not on this list.

ANTH 816. Cross–Cultural Perspectives on Aging
ANTH 844. Biology of Human Variation
ANTH 876. Human Rights, Environment & Development
ARCH 581/881. Women in Design
ARCH 556/856. Behavioral & Social Factors in Environmental Design
COMM 850. Seminar in Gender and Communication
COMM 859. Human Communication Theory
CYAF 846. Addiction and Violence in Families
EDPS 987. Developmental Perspectives on Gender Issues in Counseling
ENGL 813. Film: Women Filmmakers (or Women Directors) in Film History
ENGL 844. African American Women's Literature
ENGL 914. Seminar in Women Writers
ENGL 933B. Cather Seminar
ENGL 962A. Medieval Women Writers
LAW 686G. Gender Issues in the Law
POLS 842. Civil Liberties: Freedoms & Expressions of Conviction
POLS 843. Civil Liberties: Issues of Fairness and Equality
PSYC/EDPS/SOCI 871. Human Sexuality and Society
RUSS 882. Women in Russian Literature
SOCI 890. Sociology of Women
SOCI 907. Seminar in Sex and Gender

SPAN 870. Women Writers of Spanish America
TEAC 840A. Culture and Schooling: Gender
TEAC 840B. Culture and Schooling: Gender and Science
TEAC 840D. Special Topics with the subtitle "Literacy, Gender and Ethnicity in Schools;" OR "Identities in Transition: Family Diversity, Schooling, Culture, and Adoption;" OR "Language and Power"
TEAC 921D. Seminar in Literacy Studies: Language, Culture and Education
TEAC 930A. Ethnographic Methods
TEAC 944A. Seminar in Curriculum Studies: Curriculum as Aesthetic Text
TEAC 944B. Seminar in Curriculum Studies: Curriculum as Gendered Text
TXCD 807. History of Costume
TXCD 808. History of Textiles
TXCD 873. Design Perspectives and Issues

Faculty

- Donna Akers (History and Ethnic Studies)
- Waskar Ari (History and Ethnic Studies)
- Radha Balasubramanian (Modern Languages and Literature)
- Alexandra Basolo (School of Biological Sciences)
- Grace Bauer (English)
- Susan Belasco (English)
- Jennifer Brand (Chemical Engineering)
- Christina Brantner (Modern Languages and Literature)
- Stephen Buhler (English)
- Beth Burkstrand–Reid (College of Law)
- Tom Carr (Modern Languages and Literature)
- Joy Castro (English and Ethnic Studies)
- Sidnie White Crawford (Classics and Religious Studies)
- Dawne Curry (History and Ethnic Studies)
- Meghan Davidson (Educational Psychology)
- Basuli Deb (English and Women's and Gender Studies)
- Jan Deeds (Student Involvement, Women's Center)
- Mary Jo Deegan (Sociology)
- Kwakiutl Dreher (English and Ethnic Studies)
- Anne Duncan (Classics and Religious Studies)
- Christina Falci (Sociology)
- Gwendolyn Foster (English)
- Susan Fritz (Agricultural Leadership, Education and Communication)
- Tom Gannon (English and Ethnic Studies)
- Rhonda Garelick (English and Performing Arts)
- Sarah Gervais (Psychology)
- Iker González–Allende (Modern Languages and Literature)
- Amy Goodburn (English)
- Ruth Heaton (Teaching, Learning and Teacher Education)
- Wendy Hines (Mathematics and Statistics)
- Mary Anne Holmes (Geosciences)
- Rose Holz (History and Women's and Gender Studies)
- Melissa Homestead (English)
- Maureen Honey (English)
- Margaret Jacobs (History)
- Michael James (Textiles, Clothing and Design)
- Jeannette Jones (History and Ethnic Studies)
- Marie–Chantal Kalisa (Modern Languages and Literature and Women's and Gender Studies)
- Alice Kang (Political Science and Ethnic Studies)
- Emily Kazyak (Sociology and Women's and Gender Studies)
- Ann Kleimola (History)
- Kathy Krone (Communication Studies)
- Sharon Baum Kuska (Architecture)
- Steve Lahey (Classics and Religious Studies)
- Margaret MacIntyre Latta (Teaching, Learning and Teacher Education)
- Carole Levin (History)
- Elizabeth Lewis (Teaching, Learning and Teacher Education)
- Karen Lyons (Honors Program)
- Christin Mamiya (Art and Art History)
- Ann Mari May (Economics)
- Jennifer McKittrick (Philosophy)
- Patrice McMahon (Political Science)
- Julia McQuillan (Sociology)
- Amelia Montes (English and Ethnic Studies)
- Helen Moore (Sociology)
- Joy Panigabutra–Roberts (University Libraries)
- Susan Poser (College of Law)
- Linda Pratt (English)
- John Raible (Teaching, Learning and Teacher Education)
- Allison Reisbig (Child, Youth and Family Studies)

- Loukia Sarroub (Teaching, Learning and Teacher Education)
- Julia Schleck (English)
- Anna Shavers (College of Law)
- Victoria Smith (History and Ethnic Studies)
- Shari Stenberg (English)
- Alison Stewart (Art and Art History)
- Pat Tetreault (Student Involvement, LGBTQA Resource Center)
- Isabel Velázquez (Modern Languages and Literature)
- Stacey Waite (English)
- Luann Wandsnider (Anthropology)
- Wendy Weiss (Textiles, Clothing and Design)
- Rachelle Winkle-Wagner Educational Administration)
- Carly Woods (Communication Studies)
- Donna Woudenberg (Adjunct)

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