# Automata Theory (COT 4210)

**Tuesday and Thursday, 2:00–3:15, LIF 261**

**Textbook:** Peter Linz, *An introduction to formal languages and automata,* Third edition
**Web page:** www.csee.usf.edu/∼eugene/auto

**Instructor:** Eugene Fink
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### Exams

There will be two midterms and a final exam:

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|---|---|
| Exam #1 | September 27 (Thursday), 2:05–3:15 |
| Exam #2 | November 1 (Thursday), 2:05–3:15 |
| Final Exam | December 6 (Thursday), 2:05–3:15 |

### Homeworks

Homeworks will usually be assigned every week. Each homework is due in the beginning of the class meeting (that is, at 2:00pm) on the due date. If a homework is submitted after 2:00pm, it will get fewer points:

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|---|---|
| less than 24 hours past the deadline | grade is reduced by 25% |
| 24 to 48 hours past the deadline | grade is reduced by 50% |
| more than 48 hours past the deadline | too late! |

### Grading scheme

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|---|---|---|---|---|---|
| Exam #1 | 25% | 90–100 | A+ | 65–74.99 | B |
| Exam #2 | 25% | 85–89.99 | A | 50–64.99 | C |
| Final Exam | 40% | 80–84.99 | A– | 0–49.99 | F |
| Homeworks | 10% | 75–79.99 | B+ | | |

### Tentative course outline

Basic concepts (Chapter 1)
Finite automata (Chapter 2)
Regular languages (Chapters 3 and 4)
Context-free languages (Chapters 5 and 6)
Pushdown automata (Chapter 7)
Turing machines (Chapter 9)