2020-2021 BMath CS + Software Engineering Specialization

- 1. Under **Required Courses** and **Electives**, check off the forty-one unique courses (20.5 units) that you have earned university credit for. **Additional Elective Units** can be *any* course for which you received university credit.
- 2. Verify that the **Required Courses** and **Electives** also satisfy the **Additional Constraints**.

Required Courses		Electives	
□9.5 CS Units □CS 1[134]5 □CS 1[34]6 □CS 240 □CS 241 □CS 245 □CS 246 □CS 251 □CS 341 □CS 350 □CS 360 or CS 365 □CS 370 or CS 371 □CS 445/ECE 451 □CS 446/ECE 452 □CS 447/ECE 453 □CS 492 □CS 3XX from List A □CS 4XX from List B □CS 4XX from List B	□ 4.5 Math Units □ MATH 1[34]5 □ MATH 1[34]6 □ MATH 1[234]7 □ MATH 1[234]8 □ MATH 2[34]5 □ MATH 2[34]9 □ STAT 2[34]0 □ STAT 2[34]1 □ 1.5 Additional Math Units¹ □ □	□ 5.0 Non-Math Elect □ Communication □ Communication □ □ □ □ □ □ □ □ □ □	list I ²
Additional Constraint	S		
□ Choose two from List A: □ CS 343 □ CS 348 □ CS 349	 □ Non-math elective units must satisfy breadth and depth requirements: □ All of (breadth): □ 1.0 units from the humanities⁴ □ 1.0 units from the social sciences 		 □ Seven (regular) or eight (co-op) terms enrolled in at least three courses totaling 1.5 units □ No more than 2.0 units of failed courses
□Choose two from List B: □CS 444 □CS 457 □CS 448 □CS 458 □CS 449 □CS 484 □CS 450 □CS 485 □CS 452 □CS 486 □CS 454 □CS 488 □CS 456	□ 0.5 units from t □ 0.5 units from t sciences □ One of (depth): □ 1.5 units in the at least 0.5 unit higher, or □ 1.5 units with the		 No more than 5.0 units of unusable course attempts (failures and repeats of passed courses) □ CS major average of 60% or higher □ Cumulative average of 60% or higher □ Co-op requirements met, if applicable, including PD 1, PD 11, PD 10, and a minimum of two other PD courses

¹Three additional courses labeled ACTSC, AMATH, CO, PMATH, STAT, excluding the following:

- Courses with requisites normally excluding Honours CS students
- Courses cross-listed with a CS course
- Courses explicitly listed in CS major plans as alternatives to CS courses
- Readings and Topics courses
- ACTSC 221, CO 353, CO 380, CO 480

²Communication List I: At least 60% in one of EMLS 101R, EMLS 102R, EMLS/ENGL 129R, ENGL 109, SPCOM 100, SPCOM 223.

³Communication List II: One of EMLS 103R, EMLS 104R, EMLS 110R, ENGL 108B, ENGL 108D, ENGL 119, ENGL 208B, ENGL 209, ENGL 210E, ENGL 210F, ENGL 378/MTHEL 300, SPCOM 225, SPCOM 227, SPCOM 228, or an additional course from Communication List 1.

⁴The below Communication courses from List II can be used to satisfy both the Communication List II requirement *and* 0.5 unit for the humanities (breadth) requirement. Communication List I courses do NOT satisfy the humanities (breadth) requirement.

• ENGL 108B, ENGL 108D, ENGL 119, ENGL 208B, ENGL 209, ENGL 210E, ENGL 210F, ENGL 378/MTHEL 300, SPCOM 225, SPCOM 227, SPCOM 228.

Disclaimer: This checklist is a handy tool, but it is not a substitute for the official degree regulations. If there is a question of interpretation or a discrepancy, the University Calendar always takes precedence: http://ugradcalendar.uwaterloo.ca/group/MATH-computer-Science-1. You may complete the checklist and ask a CS advisor to review it, but the student is ultimately responsible for ensuring that they have met their degree requirements.