2020-2021 Bachelor of Mathematics (Computer Science)

1. Under **Required Courses** and **Electives**, check off the forty unique courses (20.0 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

- **7.5 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 340-398; 440-489
  - CS 440-489
  - CS 440-498 or CS 499T or CS 6xx or CS 7xx or CO 487 or STAT 440

- **4.5 Math Units**
  - MATH 1[34]5
  - MATH 1[34]6
  - MATH 1[234]7
  - MATH 2[34]9
  - STAT 2[34]0
  - STAT 2[34]1

- **1.5 Additional Math Units**
  - MATH 2[34]5
  - MATH 2[34]7
  - MATH 2[34]9
  - MATH 340-398; 440-489
  - MATH 440-489

### Electives

- **5.0 Non-Math Elective Units**
  - Communication list I
  - Communication list II

- **1.5 Additional Elective Units**

### Additional Constraints

- Non-math elective units must satisfy **breadth and depth** requirements:
  - All of (breadth):
    - 1.0 units from the humanities
    - 1.0 units from the social sciences
    - 0.5 units from the pure sciences
    - 0.5 units from the pure or applied sciences
  - One of (depth):
    - 1.5 units in the same subject area with at least 0.5 units at the 3rd year level or higher, or
    - 1.5 units with the same subject forming a prerequisite chain of length three

- 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
- 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

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1. Three 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

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


4. The 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.