# 2020-2021 BMath CS + Bioinformatics Specialization

1. Under **Required Courses** and **Electives**, check off the forty unique courses (20 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 482
- ☐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 1[234]8
- ☐MATH 2[34]5
- ☐MATH 2[34]7
- ☐MATH 2[34]9
- ☐STAT 2[34]0
- ☐STAT 2[34]1

☐1.5 Additional Math Units[1]
- ☐
- ☐
- ☐

## Electives

☐6.0 Non-Math Elective Units
- ☐Communication list I[2]
- ☐Communication list II[3]
- ☐BIOL 130
- ☐BIOL 130L
- ☐BIOL 239
- ☐BIOL 240
- ☐BIOL 240L
- ☐BIOL 309
- ☐BIOL 365
- ☐BIOL 465
- ☐CHEM 120
- ☐CHEM 120L
- ☐CHEM 123
- ☐CHEM 123L

☐0.5 Additional Elective Units
- ☐

## Additional Constraints

☒Breadth and depth met by BIOL and CHEM courses

☐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.

[3]Communication 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 List 1.

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.