

# 2022-2023 BMath (CS) + Bioinformatics Specialization

1. Please watch the [“How to Pick Your CS Checklist and Fill it in”](#) video.
2. 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.
3. Verify that the **Required Courses** and **Electives** also satisfy the **Additional Constraints**.

## Required Courses

### 7.75 CS Units

- CS 1[134]5
- CS 1[34]6
- CS 136L (0.25 unit)
- 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[034]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

## Electives

### 6.0 Non-Math Elective Units:

- Communication list I<sup>1</sup>: \_\_\_\_\_
- Communication list II<sup>2</sup>: \_\_\_\_\_
- BIOL 130
- BIOL 130L (0.25 unit)
- BIOL 239
- BIOL 240
- BIOL 240L (0.25 unit)
- BIOL 309
- BIOL 365
- BIOL 465<sup>3</sup>
- CHEM 120
- CHEM 120L (0.25 unit)
- CHEM 123
- CHEM 123L (0.25 unit)

### 0.25 Additional [Math](#) or [Non-Math](#) Elective Units

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### 1.5 Additional [Math](#) Elective Units<sup>4</sup>

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## 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

<sup>1</sup>Communication List I: At least 60% in one of EMLS 101R, EMLS 102R, EMLS/ENGL 129R, ENGL 109, SPCOM 100, SPCOM 223.

<sup>2</sup>Communication List II: One of EMLS 103R, EMLS 104R, EMLS 110R, ENGL 101B, 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.

<sup>3</sup>BIOL 465 requires CHEM 233 or CHEM 237 as a prerequisite, but this is waived for CS students in the bioinformatics specialization.

<sup>4</sup>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
- Reading and topics courses
- ACTSC 221, CO 353, CO 380, CO 480

Disclaimer: This checklist is a handy tool, but it is not a substitute for the official degree regulations. 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. If there is a question of interpretation or a discrepancy, the [University Calendar](#) always takes precedence.