

# 2024-2025 BMath (Computer Science) + Digital Hardware 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
- ECE 222
- CS 341
- CS 350
- CS 360 or CS 365
- CS 370 or CS 371
- CS 340-398; 440-489 \_\_\_\_\_
- CS 450 or ECE 320
- CS 440-489 \_\_\_\_\_
- CS 440-498, CS 499T, CS 6XX, CS 7XX, 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

## Electives

### 5.0 Non-Math Elective Units, including [Breadth and Depth](#)

- Social Science: \_\_\_\_\_
- Social Science: \_\_\_\_\_
- Pure Science: PHYS 121 (recommended)
- Pure/Applied Science: GENE 123 or MTE 120
- ECE 124
- ECE 224 or MTE 325

Choose either:

- Comm. list I<sup>1</sup>: \_\_\_\_\_
- Comm. list I or II<sup>2</sup>: \_\_\_\_\_
- Humanities: \_\_\_\_\_
- Humanities: \_\_\_\_\_

OR

- Comm. list I<sup>1</sup>: \_\_\_\_\_
- COMMST or ENGL from Comm. list II<sup>2</sup>: \_\_\_\_\_
- Humanities: \_\_\_\_\_
- Non-Math: \_\_\_\_\_

### 1.5 Additional [Math](#)<sup>3</sup> Elective Units

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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

- ECE 327
- ECE 423
- ECE 455 (recommended)

## Additional Constraints

- Two of:
  - CS 452
  - CS 454
  - CS 456
  - CS 457
- [Depth](#) – The depth requirement is automatically met by the required ECE 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 COMMST 100, COMMST 223, EMLS 101R, EMLS 102R, EMLS/ENGL 129R, ENGL 109.

<sup>2</sup>Communication List II: One of COMMST 225, COMMST 227, COMMST 228, *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

<sup>3</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.