

# 2025-2026 BMath (Computer Science) + Software Engineering 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-one unique courses (20.25 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

### ☐ 9.25 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 3XX from List A \_\_\_\_\_
- ☐ CS 3XX from List A \_\_\_\_\_
- ☐ CS 445/ECE 451
- ☐ CS 446/ECE 452
- ☐ CS 447/ECE 453
- ☐ 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]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: \_\_\_\_\_
- ☐ Pure/Applied Science: \_\_\_\_\_
- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_

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

- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_

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: \_\_\_\_\_

## Additional Constraints

### ☐ List A – Choose two courses below:

- ☐ CS 343
- ☐ CS 346
- ☐ CS 348
- ☐ CS 349

### ☐ List B - Choose two courses below:

- |                                 |  |  |                                 |
|---------------------------------|--|--|---------------------------------|
| <input type="checkbox"/> CS 442 | <input type="checkbox"/> CS 450              | <input type="checkbox"/> CS 454              | <input type="checkbox"/> CS 480 |
| <input type="checkbox"/> CS 444 | <input type="checkbox"/> CS 451              | <input type="checkbox"/> CS 456              | <input type="checkbox"/> CS 484 |
| <input type="checkbox"/> CS 448 | <input type="checkbox"/> CS 452              | <input type="checkbox"/> CS 457              | <input type="checkbox"/> CS 486 |
| <input type="checkbox"/> CS 449 | <input type="checkbox"/> CS 453 <sup>4</sup> | <input type="checkbox"/> CS 459 <sup>4</sup> | <input type="checkbox"/> CS 488 |

### ☐ List C – Choose one course below:

- |                                  |                                   |                                  |                                   |                                  |
|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|
| <input type="checkbox"/> BET 360 | <input type="checkbox"/> ENVS 205 | <input type="checkbox"/> GSJ 205 | <input type="checkbox"/> PACS 315 | <input type="checkbox"/> STV 202 |
| <input type="checkbox"/> BET 420 | <input type="checkbox"/> GEOG 207 | <input type="checkbox"/> MSE 422 | <input type="checkbox"/> SOC 232  | <input type="checkbox"/> STV 205 |
| <input type="checkbox"/> CS 492  | <input type="checkbox"/> GEOG 306 | <input type="checkbox"/> MSE 442 | <input type="checkbox"/> SOC 324  | <input type="checkbox"/> STV 306 |

- ☐ [Depth](#) - 1.5 units in the same subject where either:  
(a) at least 0.5 unit is 3XX or higher, **or**  
(b) all three form a prerequisite chain.

Courses for breadth can also be used for depth.

**Write the non-math elective units from above that you will use for depth.**

- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_

- ☐ 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

<sup>4</sup>Only one of CS 453 or CS 459 can be used towards the list B requirement.

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.