

2021-2022 BMath CS + 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 (20.5 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

- | | |
|---|--|
| <input type="checkbox"/> 9.5 CS Units | <input type="checkbox"/> 4.5 Math Units |
| <input type="checkbox"/> CS 1[134]5 | <input type="checkbox"/> MATH 1[34]5 |
| <input type="checkbox"/> CS 1[34]6 | <input type="checkbox"/> MATH 1[034]6 |
| <input type="checkbox"/> CS 240 | <input type="checkbox"/> MATH 1[234]7 |
| <input type="checkbox"/> CS 241 | <input type="checkbox"/> MATH 1[234]8 |
| <input type="checkbox"/> CS 245 | <input type="checkbox"/> MATH 2[34]5 |
| <input type="checkbox"/> CS 246 | <input type="checkbox"/> MATH 2[34]7 |
| <input type="checkbox"/> CS 251 | <input type="checkbox"/> MATH 2[34]9 |
| <input type="checkbox"/> CS 341 | <input type="checkbox"/> STAT 2[34]0 |
| <input type="checkbox"/> CS 350 | <input type="checkbox"/> STAT 2[34]1 |
| <input type="checkbox"/> CS 360 or CS 365 _____ | |
| <input type="checkbox"/> CS 370 or CS 371 _____ | |
| <input type="checkbox"/> CS 445/ECE 451 _____ | |
| <input type="checkbox"/> CS 446/ECE 452 _____ | |
| <input type="checkbox"/> CS 447/ECE 453 _____ | |
| <input type="checkbox"/> CS 492 | |
| <input type="checkbox"/> CS 3XX from List A _____ | |
| <input type="checkbox"/> CS 3XX from List A _____ | |
| <input type="checkbox"/> CS 4XX from List B _____ | |
| <input type="checkbox"/> CS XX from List B _____ | |

Electives

- | | |
|--|---|
| <input type="checkbox"/> 5.0 Non-Math Elective Units including Breadth and Depth: | <input type="checkbox"/> 1.5 Additional Math Units¹ |
| <input type="checkbox"/> Communication list I ² : _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Communication list II ³ : _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Humanities: _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Humanities or non-math ⁴ : _____ | |
| <input type="checkbox"/> Social Science: _____ | |
| <input type="checkbox"/> Social Science: _____ | |
| <input type="checkbox"/> Pure Science: _____ | |
| <input type="checkbox"/> Pure or Applied Sciences: _____ | |
| <input type="checkbox"/> _____ | |
| <input type="checkbox"/> _____ | |

Additional Constraints

- Choose two courses from List A:
- CS 343 CS 348 CS 349
- Choose two courses from List B:
- CS 444 CS 449 CS 452 CS 456 CS 458 CS 485 CS 488
- CS 448 CS 450 CS 454 CS 457 CS 484 CS 486

- | | |
|--|---|
| <input type="checkbox"/> 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.
<input type="checkbox"/> _____
<input type="checkbox"/> _____
<input type="checkbox"/> _____ | <input type="checkbox"/> Seven (regular) or eight (co-op) terms enrolled in at least three courses totaling 1.5 units
<input type="checkbox"/> No more than 2.0 units of failed courses
<input type="checkbox"/> No more than 5.0 units of unusable course attempts (failures and repeats of passed courses)
<input type="checkbox"/> CS major average of 60% or higher
<input type="checkbox"/> Cumulative average of 60% or higher
<input type="checkbox"/> Co-op requirements met, if applicable, including PD 1, PD 11, PD 10, and a minimum of two other PD courses |
|--|---|

¹Three 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

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

³Communication 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.

⁴The courses below can be used to satisfy both the Communication List II requirement **and** 0.5 unit for the humanities (breadth) requirement.

- 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.

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. 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.