2024-2025 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: _____
- ☐ _____
- ☐ _____

Choose either:
- ☐ Comm. list I[1]: _____
- ☐ Comm. list I or II[2]: _____
- ☐ Humanities: _____
- ☐ Humanities: _____

OR
- ☐ Comm. list I[1]: _____
- ☐ COMMST or ENGL from Comm. list II[2]: _____
- ☐ Humanities: _____
- ☐ Non-Math: _____

☐ **1.5 Additional Math[3] Elective Units**
- ☐ _____
- ☐ _____
- ☐ _____

Additional Constraints

☐ List A – Choose two courses below:
- ☐ CS 343
- ☐ CS 348
- ☐ CS 349

☐ List B - Choose two courses below:

☐ CS 442	☐ CS 450	☐ CS 4564	☐ CS 480
☐ CS 444	☐ CS 451	☐ CS 456	☐ CS 484
☐ CS 448	☐ CS 452	☐ CS 457	☐ CS 486
☐ CS 449	☐ CS 453[4]	☐ CS 459[4]	☐ CS 488

☐ List C – Choose one course below:

☐ BET 360	☐ ENVS 205	☐ GSJ 205	☐ PACS 315	☐ STV 202
☐ BET 420	☐ GEOG 207	☐ MSE 422	☐ SOC 232	☐ STV 205
☐ CS 492	☐ GEOG 306	☐ MSE 442	☐ SOC 324	☐ 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

[1]Communication List I: At least 60% in one of COMMST 100, COMMST 223, EMLS 101R, EMLS 102R, EMLS/ENGL 129R, ENGL 109.

[2]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

[3]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

[4]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.