## 2022-2023 BMath (CS) + 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

$\square$ CS 1[134]5
$\square$ CS 1[34]6
$\square$ CS 136L (0.25 unit)
$\square$ CS 240
$\square$ CS 241
$\square$ CS 245
$\square$ CS 246
$\square$ CS 251
$\square$ CS 341
$\square$ CS 350
$\square$ CS 360 or CS 365
$\square$ CS 370 or CS 371 $\qquad$
$\square$ CS 340-398; 440-489CS 450 or ECE 320
$\square$ CS 440-489
$\square$ CS 440-498 or CS 499T or CS $6 x x$ or CS $7 x x$ or CO 487 or STAT 440
4.5 Math Units

MATH 1[34]5
MATH 1[034]6
MATH 1[234]7
$\square$ MATH 1[234]8
$\square$ MATH 2[34]5
$\square$ MATH 2[34]7
$\square$ MATH 2[34]9
$\square$ STAT 2[34]0
$\square$ STAT 2[34]1

## Electives

## Additional Constraints

## Two of:

## CS 452

CS 454
## CS 456

CS 457
$\boxtimes$ Depth - The depth requirement is automatically met by the required ECE courses.
$\square$ Seven (regular) or eight (co-op) terms enrolled in at least three courses totaling 1.5 unitsNo more than 2.0 units of failed courses
$\square$ 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
$\square$ 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 EMLS 101R, EMLS 102R, EMLS/ENGL 129R, ENGL 109, SPCOM 100, SPCOM 223.
${ }^{2}$ 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.
${ }^{3}$ The courses below can be used to satisfy both the Communication List II requirement and 0.5 unit for the humanities (breadth) requirement. So, if you use one of the courses below for humanities, then the checkbox needs to be replaced by any non-Math course.

- 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.

If you use one of the Communication List II courses for humanities, then the checkbox will need to be replaced by any nonMath course.
${ }^{4}$ 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.

