2021-2022 BMath CS + Digital Hardware Specialization

- 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.

Flactives

3. Verify that the Required Courses and Electives also satisfy the Additional Constraints.

Required Courses		Electives	
☐7.5 CS Units	☐4.5 Math Units	\square 5.0 Non-Math Elective Units	□2.5 Additional
□CS 1[134]5	☐MATH 1[34]5	including Breadth and Depth:	Elective Units
□CS 1[34]6	☐MATH 1[34]6	☐Communication list I¹:	☐ Humanities:
□ CS 240	☐MATH 1[234]7	☐Communication list II ² :	
□CS 241	☐MATH 1[234]8	\square GENE 123 or MTE 120	non-math ³ :
□ CS 245	☐MATH 2[34]5	□ ECE 124	☐Social Science:
□CS 246	☐MATH 2[34]7	☐ ECE 224 or MTE 325	☐Social Science:
□ ECE 222	☐MATH 2[34]9	□ ECE 327	☐ Pure Science:
□CS 341	□STAT 2[34]0	□ ECE 423	
□ CS 350	□STAT 2[34]1	☐Recommended: ECE 455	\square 1.5 Additional Math
□ CS 360 or CS 365		☐Recommended: PHYS 121	Units ⁵
☐ CS 370 or CS 371		\square One of ECE 320, ECE 429, or	
□CS 340-398; 440-489		CS 450 ⁴	
☐ CS 450 or ECE 429			
□CS 440-489			
		or CO 487 or STAT 440	
Additional Constraint	ts		
☐ Two of:			
☐ CS 452 ☐ CS 4.	54 □ CS 456 □ CS	S 457	
Depth − The depth requ		met by the required ECE courses.	
	•	n at least three courses totaling 1.5 u	nits
□ No more than 2.0 units		5	
☐ No more than 5.0 units	of unusable course atter	npts (failures and repeats of passed o	ourses)
☐CS major average of 609			,
☐Cumulative average of 6			
-	=	PD 1, PD 11, PD 10, and a minimum	of two other PD courses
	-		
Communication List I: At lea	st 60% in one of EMLS 10	1R, EMLS 102R, EMLS/ENGL 129R, ENG	L 109, SPCOM 100, SPCOM 223.
			ENGL 108D, ENGL 119, ENGL 208B, ENG
209, ENGL 210E, ENGL 210F	, ENGL 378/MTHEL 300, S	PCOM 225, SPCOM 227, SPCOM 228, c	or an additional course from

Communication List 1.

³The 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 101B, ENGL 208B, ENGL 209, ENGL 210E, ENGL 210F, ENGL 378/MTHEL 300, SPCOM 225, SPCOM 227, SPCOM 228.

⁴Students taking ECE 429 instead of CS 450 will count this as a 0.5 math unit in the range CS 440-CS 498, and not a 0.5 non-math unit.

⁵Three 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. If there is a question of interpretation or a discrepancy, the University Calendar always takes precedence: http://ugradcalendar.uwaterloo.ca/group/MATH-Computer-Science-1. 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.