2021-2022 BCS + 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 | | Electives | |
|----------------------------------|------------------------------|---|-------------------------------------|
| ☐7.5 CS Units | ☐3.5 Math Units | ☐5.0 Units | □2.5 Non-Math Elective Units |
| □CS 1[134]5 | ☐MATH 1[34]5 | ☐Communication list I¹: | including Breadth and Depth |
| □CS 1[34]6 | ☐MATH 1[34]6 | ☐Communication list II ² : | ☐ Humanities: |
| □ CS 240 | ☐MATH 1[234]7 | \square GENE 123 or MTE 120 | ☐ Humanities or |
| □CS 241 | ☐MATH 1[234]8 | □ ECE 124 | non-math³: |
| □ CS 245 | ☐MATH 2[34]5 | ☐ ECE 224 or MTE 325 | \square Social Science: |
| □CS 246 | □STAT 2[34]0 | □ ECE 327 | \square Social Science: |
| □ ECE 222 | □STAT 2[34]1 | □ ECE 423 | ☐Pure Science: |
| □ CS 341 | | ☐ Recommended: ECE 455 | |
| □CS 350 | | ☐ Recommended: PHYS 121 | \square 1.5 Additional Units |
| □CS 340-398;440-489 | | \square One of ECE 320, ECE 429, or | |
| □CS 340-398;440-489 | | CS 450 ⁴ | |
| □CS 340-398;440-489 | | | |
| \square CS 450 or ECE 429 $_$ | | | |
| □CS 440-489 | | | |
| | | or CO 487 or STAT 440 | |
| | | | |
| Additional Constrain | ts | | |
| ☐ Two of: | | | |
| ☐ CS 452 ☐ CS 4 | 54 □ CS 456 □ CS | 5 457 | |
| □ Depth – The depth req | uirement is automatically | met by the required ECE courses. | |
| ☐Seven (regular) or eight | (co-op) terms enrolled in | າ at least three courses totaling 1.5 ເ | inits |
| ☐ No more than 2.0 units | of failed courses | | |
| ☐ No more than 5.0 units | of unusable course atter | npts (failures and repeats of passed | courses) |
| ☐CS major average of 609 | % or higher | | • |
| ☐Cumulative average of 6 | 50% or higher | | |
| ☐Co-op requirements me | et, if applicable, including | PD 1, PD 11, PD 10, and a minimum | of two other PD courses |
| Communication List I: At le | east 60% in one of FMLS | 101R. FMIS 102R. FMIS/FNGI 129R | ENGL 109, SPCOM 100, SPCOM 223. |
| | | | |
| communication list II: One | e ot EIVILS 103K, EIVILS 10 | 4K, EIVILS 11UK, ENGL 101B, ENGL 10 | 8B, 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.

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 nonmath unit.

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.