

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

- | | |
|---|--|
| <input type="checkbox"/> 7.5 CS Units | <input type="checkbox"/> 3.5 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[34]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"/> STAT 2[34]0 |
| <input type="checkbox"/> ECE 222 | <input type="checkbox"/> STAT 2[34]1 |
| <input type="checkbox"/> CS 341 | |
| <input type="checkbox"/> CS 350 | |
| <input type="checkbox"/> CS 340-398;440-489 _____ | |
| <input type="checkbox"/> CS 340-398;440-489 _____ | |
| <input type="checkbox"/> CS 340-398;440-489 _____ | |
| <input type="checkbox"/> CS 450 or ECE 429 or ECE 320 _____ | |
| <input type="checkbox"/> CS 440-489 _____ | |
| <input type="checkbox"/> CS 440-489 or CS 499T or CS 6xx or
CS 7xx or CO 487 or STAT 440 _____ | |

Electives

- | | |
|--|--|
| <input type="checkbox"/> 5.0 Non-Math Units Including
Breadth and Depth | <input type="checkbox"/> 4.0 Additional Math or
Non-Math Elective Units |
| <input type="checkbox"/> Communication list I ¹ : _____ | <input type="checkbox"/> ECE 327 |
| <input type="checkbox"/> Communication list II ² : _____ | <input type="checkbox"/> ECE 423 |
| <input type="checkbox"/> Humanities: _____ | <input type="checkbox"/> <u>Recommended: ECE 455</u> |
| <input type="checkbox"/> Humanities or
non-math ³ : _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Social Science: _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Social Science: _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Pure Science:
<u>Recommended: PHYS 121</u> | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Pure or Applied Science:
<u>GENE 123 or MTE 120</u> | <input type="checkbox"/> _____ |
| <input type="checkbox"/> ECE 124 | <input type="checkbox"/> _____ |
| <input type="checkbox"/> ECE 224 or MTE 325 | <input type="checkbox"/> _____ |

Additional Constraints

- Two of:
 CS 452 CS 454 CS 456 CS 457
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- Depth** – The depth requirement can be potentially met by the required ECE courses. Please check with a CS Advisor to confirm if the ECE courses you plan on taking will satisfy depth **before** you choose them during course selection.
- 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

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

²Communication 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.

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.

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.