

2022-2023 BCS + 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 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"/> 8.75 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 136L (0.25 unit) | <input type="checkbox"/> MATH 1[234]7 |
| <input type="checkbox"/> CS 240 | <input type="checkbox"/> MATH 1[234]8 |
| <input type="checkbox"/> CS 241 | <input type="checkbox"/> MATH 2[34]9 |
| <input type="checkbox"/> CS 245 | <input type="checkbox"/> STAT 2[34]0 |
| <input type="checkbox"/> CS 246 | <input type="checkbox"/> STAT 2[34]1 |
| <input type="checkbox"/> CS 251 | |
| <input type="checkbox"/> CS 341 | |
| <input type="checkbox"/> CS 350 | |
| <input type="checkbox"/> CS 3XX from List A _____ | |
| <input type="checkbox"/> CS 3XX from List A _____ | |
| <input type="checkbox"/> CS 445/ECE 451 | |
| <input type="checkbox"/> CS 446/ECE 452 | |
| <input type="checkbox"/> CS 447/ECE 453 | |
| <input type="checkbox"/> CS 4XX from List B _____ | |
| <input type="checkbox"/> CS 4XX from List B _____ | |
| <input type="checkbox"/> CS 492 | |

Electives

- | | |
|--|---|
| <input type="checkbox"/> 5.0 Non-Math Elective Units including Breadth and Depth: | <input type="checkbox"/> 2.75 Additional Math or Non-Math Elective Units |
| <input type="checkbox"/> Communication list I ¹ : _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Communication list II ² : _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Humanities: _____ | <input type="checkbox"/> _____ |
| <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: _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Pure or Applied Sciences: _____ | |
| <input type="checkbox"/> _____ | |
| <input type="checkbox"/> _____ | |

Additional Constraints

- | | |
|---|---|
| <input type="checkbox"/> List A – Choose two courses below:
<input type="checkbox"/> CS 343
<input type="checkbox"/> CS 348
<input type="checkbox"/> CS 349 | <input type="checkbox"/> List B – Choose two courses below:
<input type="checkbox"/> CS 442 <input type="checkbox"/> CS 449 <input type="checkbox"/> CS 452 <input type="checkbox"/> CS 457 <input type="checkbox"/> CS 484
<input type="checkbox"/> CS 444 <input type="checkbox"/> CS 450 <input type="checkbox"/> CS 454 <input type="checkbox"/> CS 458 <input type="checkbox"/> CS 486
<input type="checkbox"/> CS 448 <input type="checkbox"/> CS 451 <input type="checkbox"/> CS 456 <input type="checkbox"/> CS 480 <input type="checkbox"/> CS 488 |
| <input type="checkbox"/> 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.
<input type="checkbox"/> _____
<input type="checkbox"/> _____
<input type="checkbox"/> _____ | <input type="checkbox"/> Seven (regular) or eight (co-op) terms enrolled in at least three courses totaling 1.5 units
<input type="checkbox"/> No more than 2.0 units of failed courses
<input type="checkbox"/> No more than 5.0 units of unusable course attempts (failures and repeats of passed courses)
<input type="checkbox"/> CS major average of 60% or higher
<input type="checkbox"/> Cumulative average of 60% or higher
<input type="checkbox"/> 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 101BENGL 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 non-Math course.

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.