

2022-2023 Bachelor of Computer Science (Data Science)

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

- CS 1[134]5
- CS 1[34]6
- CS 136L (0.25 unit)
- CS 240
- CS 241
- CS 245
- CS 246
- CS 251
- CS 341
- CS 348
- CS 350
- CS 340-398; 440-489 _____
- CS 451
- CS 480 or CS485 or CS 486
- CS 4xx from List B _____
- CS 340-398; 440-498 or CS 499T or CS 6xx or CS 7xx or CO 487 or STAT 440¹ _____

7.0 Math Units

- MATH 1[34]5
- MATH 1[34]6
- MATH 1[234]7
- MATH 1[234]8
- MATH 2[34]5
- MATH 2[34]7
- MATH 2[34]9
- STAT 2[34]0
- STAT 2[34]1
- STAT 330
- STAT 331
- STAT 341
- STAT 4XX from List A¹
- STAT 4XX from List A¹

Electives

5.0 Non-Math Elective Units

including [Breadth and Depth](#):

- Communication list I²: _____
- Communication list II³: _____
- Humanities: _____
- Humanities or non-math⁴: _____
- Social Science: _____
- Social Science: _____
- Pure Science: _____
- Pure or Applied Sciences: _____
- _____
- _____

0.25 Additional Math or Non-Math Elective Units

- _____

Additional Constraints

List A – Choose two courses below:

- STAT 431 STAT 442
- STAT 440 STAT 443
- STAT 441 STAT 444

List B – Choose one course below:

- CS 448 CS 485
- CS 454 CS 486
- CS 480

[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.

- _____
- _____
- _____

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

¹Must be two different courses. Students who take STAT 440 cannot also count this course toward the "one additional course chosen from" requirement for the Bachelor of Computer Science.

²Communication List I: At least 60% in one of EMLS 101R, EMLS 102R, EMLS/ENGL 129R, ENGL 109, SPCOM 100, SPCOM 223.

³Communication 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.

⁴The courses below can be used to satisfy both the Communication List II requirement **and** 0.5 unit for the humanities (breadth) requirement. 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.

- 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 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.