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
- **7.5 CS Units**
  - CS 1[34]5
  - CS 1[34]6
  - CS 240
  - CS 241
  - CS 245
  - CS 246
  - CS 251
  - CS 341
  - CS 350
  - CS 445/ECE 451
  - CS 446/ECE 452
  - CS 447/ECE 453
  - CS 492
  - CS 3XX from List A
  - CS 3XX from List A
  - CS 4XX from List B
  - CS 3XX from List B

- **3.5 Math Units**
  - MATH 1[34]5
  - MATH 1[34]6
  - MATH 1[234]7
  - MATH 1[234]8
  - MATH 2[34]9
  - STAT 2[34]0
  - STAT 2[34]1

### Electives
- **5.0 Non-Math Elective Units including Breadth and Depth**
  - Communication list I:
  - Communication list II:
  - Humanities: (List A)
  - Humanities or non-math: (List A)
  - Social Science: (List A)
  - Social Science: (List A)
  - Pure Science: (List A)
  - Pure or Applied Sciences: (List A)

- **3.0 Additional Math Units**

### Additional Constraints
- Choose two courses from List A:
  - CS 343
  - CS 348
  - CS 349

- Choose two courses from List B:
  - CS 444
  - CS 449
  - CS 452
  - CS 456
  - CS 458
  - CS 485
  - CS 488
  - CS 484
  - CS 486

- **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.**
  - (List A)
  - (List A)
  - (List A)

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1. Communication List I: At least 60% in one of EMLS 101R, EMLS 102R, EMLS/ENGL 129R, ENGL 109, SPCOM 100, SPCOM 223.
3. The courses below can be used to satisfy both the Communication List II requirement and 0.5 unit for the humanities (breadth) requirement.
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.