

Program Sequencing Guide (Computer Science, Fall 2025)

Disclaimer: This is a planning guide and should be used in conjunction with the [University of Calgary Academic Calendar](#) and the [Academic Requirements Report](#) (located in Quick Links within the [Student Centre](#)). Students are responsible for course planning and should consult with an advisor for any questions.

Degree Timeline

1 st Year	2 nd Year	3 rd Year	4 th Year
<ul style="list-style-type: none"> — CPSC 231 — CPSC 233 — CPSC 251 — MATH 211 — MATH 249 or 265 — PHIL 279 — Non-Science Option (Breadth Requirement) — Non-Science Option (Breadth Requirement) — Non-Major Field Option — Non-Major Field Option <p>Note: Students may complete CPSC 217 and 219 in place of CPSC 231 and 233, but it is not recommended for degree progression.</p> <p>For students who have completed CPSC 217 and 219, CPSC 251 will be moved to second year.</p>	<ul style="list-style-type: none"> — CPSC 331 — CPSC 351 — CPSC 355 — SENG 300 — PHIL 314 — Course in the Field of Computer Science (300 level or higher) — Non-Science Option (Breadth Requirement) — Non-Major Field Option — Non-Major Field Option — Non-Major Field Option <p>Note: List of courses in the Field of CPSC can be found in the Academic Calendar.</p>	<ul style="list-style-type: none"> — CPSC 413 — CPSC 449 — CPSC 457 — Course in the Field of Computer Science (300 level or higher) — Course in the Field of Computer Science (300 level or higher) — Course in the Field of Computer Science (400 level or higher) — Non-Science Option (Breadth Requirement) — Non-Major Field Option — Non-Major Field Option — Non-Major Field Option 	<ul style="list-style-type: none"> — Course in the Field of Computer Science (400 level or higher) — Course in the Field of Computer Science (400 level or higher) — Course in the Field of Computer Science (400 level or higher) — Course in the Field of Computer Science (500 level) — Course in the Field of Computer Science (500 level) — Course in the Field of Computer Science (500 level) — Non-Major Field Option — Non-Major Field Option — Open Option — Open Option

Program Information

All Undergraduate Degree programs contain at least 120 units with a maximum of 48 units at the Junior Level (200 level courses).

Computer Science concentrations are optional and designed to replace courses in the Field of Computer Science and in some cases options.

An Honours Program is available and can be incorporated into the degree.

Please consult the Academic Calendar ([CPSCBSC](#)) for Program Details.

Important Definitions

- A **Non-Major Field Option** is any option NOT in the field of Computer Science.
- A **Non-Science Option** is any course from faculties other than the Faculty of Science, excluding courses listed in [Table 1](#).
- An **Open Option** is any course offered by any Faculty, including the Major Field.

Use the [Courses Search Tool](#) in the Academic Calendar to view all courses and course descriptions.

IMPORTANT: Course offerings are subject to change each year. Students **must** consult the current schedule via Class Search and Schedule Builder in their Student Centre to identify when courses are offered. It is the student's responsibility to ensure they are meeting pre-requisites when entering each year of their program and completing courses in the appropriate terms for degree progression.

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Adding Honours

3 rd Year	4 th Year
<ul style="list-style-type: none">— CPSC 413— CPSC 449— CPSC 457— Course from the Field of Computer Science (300 level or higher)— Course from the Field of Computer Science (400 level or higher)— Course from the Field of Computer Science (400 level or higher)— Non-Science Option (Breadth Requirement)— Non-Major Field Option— Open Option— Open Option	<ul style="list-style-type: none">— CPSC 502A— CPSC 502B— Course from the Field of Computer Science (400 level or higher)— Course from the Field of Computer Science (500 level)— Course from the Field of Computer Science (500 level)— Course from the Field of Computer Science (500 level)— Course from the Field of Computer Science (500 level)— Course from the Field of Computer Science (500 level)— Open Option— Open Option

Honours Program Information:

The first and second year are not impacted by adding Honours to the degree ([CPSCBSCH](#)).

Students Pursuing an Honours Degree will replace 12U of Non-Major Field Options with Honours Research Thesis (CPSC 502), 6U Open Options.

- CPSC 502 is an Independent Research Course, students are responsible to find a supervisor and register through the IRC Application form
- For the Courses in the Field of CPSC, Honours students require more courses at the 500 level (see Academic Calendar SC 4-3-1).

Information regarding Honours Annual Review requirements can be found in the Academic Calendar (Honours Programs).

Courses in the Field of Study

Courses constituting the Field of the Major can be found in the Academic Calendar ([CPSCBSC](#)), under Program Details. Changes may occur from year to year.

Courses Constituting the Field of Computer Science:

- Computer Science - All courses labelled CPSC (excluding CPSC 203, 304, and 399.04)
- Software Engineering - All courses labelled SENG
- Data Science - DATA 211, 311
- Mathematics - MATH 318, 391, 493

Customize your Degree

The following **Program Additions** can further enrich your Undergraduate Degree Program:

- Add a [Concentration](#) in a field of Computer Science (18 – 27 units),
- Add a [Minor](#) in another Field of Study (30 units),
- Add a [Double Major](#) with another eligible BSC Program (120 units minimum),
- Add a [Combined Degree](#) with another eligible UCalgary Program (150 units minimum),
- Participate in [Science Research](#) through summer grants or independent research courses,
- Participate in the [Science Co-op Program](#) to gain valuable work experience.

For more information about these programs, connect with the USC Science Advising Team.

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