



SIMON FRASER
UNIVERSITY

**COMPUTING SCIENCE B.SC. MAJOR -
INFORMATION SYSTEMS CONCENTRATION** *(Mobile and Web)*
FALL 2022 GRADUATION PLANNER

Name:

Student ID:

Date:

This area embraces software engineering and database systems design, and provides the academic preparation necessary for the efficient and effective development of large software products and the design and management of computer information systems, specifically to support mobile and web applications.

Year 1	
<input type="checkbox"/> CMPT 120 Programming 1 <input type="checkbox"/> MACM 101 Discrete Math 1 <input type="checkbox"/> MATH 151 Calculus 1 OR <input type="checkbox"/> MATH 150 Calculus 1 with Review <input type="checkbox"/> CMPT 105W CS Writing I (or in 2nd term) <input type="checkbox"/> WQB Breadth: _____	<input type="checkbox"/> CMPT 125 Programming 2 <input type="checkbox"/> MATH 152 Calculus 2 <input type="checkbox"/> MATH 240 Algebra I: Linear Algebra OR <input type="checkbox"/> MATH 232 Applied Linear Algebra <input type="checkbox"/> WQB Breadth: _____ <input type="checkbox"/> General Elective: _____
Year 2	
<input type="checkbox"/> CMPT 225 Data Structures and Programming <input type="checkbox"/> CMPT 295 Intro to Computer Systems <input type="checkbox"/> CMPT 210 Probability and Computing OR <input type="checkbox"/> MACM 201 Discrete Mathematics II <input type="checkbox"/> WQB Breadth: _____ <input type="checkbox"/> General Elective: _____	<input type="checkbox"/> CMPT 276 Software Engineering <input type="checkbox"/> STAT 271 Probability and Statistics for CS OR <input type="checkbox"/> STAT 270 Introduction to Probability & Statistics <input type="checkbox"/> CMPT 272 Front End Web Dev* <input type="checkbox"/> WQB Breadth: _____ <input type="checkbox"/> WQB Breadth: _____
Year 3	
<input type="checkbox"/> CMPT 307 Data Structures and Algorithms <input type="checkbox"/> CMPT 354 Databases <input type="checkbox"/> CMPT 372 (prereq: 272) Backend Web Dev** OR <input type="checkbox"/> CMPT 362 Mobile Application (CMPT 318 Summer 2022) <input type="checkbox"/> CMPT 376W CS Writing II <input type="checkbox"/> General Elective: _____	<input type="checkbox"/> CMPT363 Interface Design <input type="checkbox"/> CMPT 300 Operating Systems <input type="checkbox"/> CMPT 373 Software Development Methods <input type="checkbox"/> General Elective: _____ <input type="checkbox"/> General Elective: _____
Year 4	
<input type="checkbox"/> CMPT 454 Database 2 <input type="checkbox"/> CMPT 473 Software Testing, Reliability & Security <input type="checkbox"/> MACM 316 Numerical Analysis <input type="checkbox"/> UD General Elective: _____ <input type="checkbox"/> General Elective: _____ * CMPT 272 was offered as CMPT 218 in Spring 2021/2022 **CMPT 372 replaced CMPT 470 effective Summer 2022	<input type="checkbox"/> CMPT 456 Information Retrieval and Web Search OR <input type="checkbox"/> CMPT 459 Special Topics in Database Systems OR <input type="checkbox"/> CMPT 474 Web Systems Architecture <input type="checkbox"/> CMPT 431 Distributed Systems (for web) (prereq: 371) OR <input type="checkbox"/> CMPT 475 Requirements Engineering <input type="checkbox"/> CMPT 353 Computational Data Science <input type="checkbox"/> UD General Elective: _____ <input type="checkbox"/> General Elective: _____

Other recommended courses: CMPT 371 - Networking, CMPT 365 - Multimedia

WQB Breadth Requirements

6 units of Breadth Social (B-SOC)

6 units of Breadth Humanities (B-HUM)

3 units of Breadth Science (B-SCI)

Refer to: http://www.sfu.ca/ugcr/for_students/wqb_requirements/breadth.html for courses that fulfill these requirements.

This Concentration Planning Form contains a recommended course plan for Computing Science major BSc students to obtain a concentration designation, along with course suggestions to optimize the knowledge and skills upon completion of this concentration, while distributing the difficulty of the course load per term. It is not a substitute for the official degree regulations found at www.sfu.ca/students/calendar.html. If there is a question of interpretation or a discrepancy, the University Calendar always takes precedence. For assistance or queries on possible substitutions, ask a FAS advisor to help. The student is ultimately responsible for ensuring that they have met their degree requirements.

CO-OPERATIVE EDUCATION Combines work experience with academic studies—all students are encouraged to apply once they have completed 30 units. Co-op does not count towards academic credits. Co-op is not mandatory; however, three work terms must be successfully completed in order to obtain an undergraduate degree with a co-op designation. For more information about Co-op, please see: <http://www.sfu.ca/coop/programs/cmpt/prospective.html>.

CMPT 415/416 SPECIAL RESEARCH PROJECTS are courses that may be used for upper division credit. See: <https://www.sfu.ca/computing/current-students/undergraduate-students/research.html>

FACULTY OF APPLIED SCIENCE RESIDENCY REQUIREMENTS At least two thirds of the total Upper Division (UD) units in the program must have been completed at Simon Fraser University. Please refer to the current SFU calendar for details.

CONTINUATION REQUIREMENTS Students who do not maintain at least a 2.40 CGPA, will be placed on probation by the School of Computing Science. Courses available to probationary students may be limited. Each term, these students must consult an advisor prior to enrollment and must achieve either a term 2.40 GPA or an improved CGPA. Students who fail to do so may be removed from the program.

ADVISING View drop-in advising times here <https://booking.cs.sfu.ca/adbooking/calendar.cgi> or email asadvice@sfu.ca. Please bring a copy of your advising transcript (download at go.sfu.ca) with you to the advising session.