

## COMPUTING SCIENCE B.SC. MAJOR -COMPUTER GRAPHICS AND MULTIMEDIA CONCENTRATION FALL 2022 GRADUATION PLANNER

Name:	Student ID:	Date:
With the rise in popularity of visual interfaces and particularly multimedia systems, the demand for expertise in this area has greatly increased. Topics include graphical interfaces, modeling, rendering, animation, visualization, and multimedia design.		
Year 1		
☐ CMPT 120 Programming 1 ☐ MACM 101 Discrete Math 1 ☐ MATH 151 Calculus 1 OR ☐ MATH 150 Calculus 1 with Review ☐ CMPT 105W CS Writing I (or in 2nd term) ☐ WQB Breadth:	☐ MATH 152 ☐ MATH 240 OR ☐ MATH 2 ☐ WQB Bread	Programming 2 Calculus 2 Algebra I: Linear Algebra 232 Applied Linear Algebra th: ctive:
Year 2		
☐ CMPT 225 Data Structures and Programming ☐ CMPT 295 Intro to Computer Systems ☐ CMPT 210 Probability and Computing OR ☐ MACM 201 Discrete Mathematics II ☐ WQB Breadth:	☐ STAT 271 F OR ☐ STAT 27 ☐ WQB Bread ☐ WQB Bread	Software Engineering Probability and Statistics for CS 70 Introduction to Probability & Statistics th: th: ctive:
Year 3		
☐ CMPT 307 Data Structures and Algorithms ☐ MACM 316 Numerical Analysis ☐ CMPT 310 Introduction to AI ☐ CMPT 376W CS Writing II ☐ General Elective:	☐ CMPT 419/☐ CMPT 353☐ General Ele	ntro to Computer Graphics /410 Machine Learning Computational Data Science ctive: ctive:
Year 4		
☐ CMPT 412 Computer Vision ☐ CMPT 464 Geometric Modeling in Computer Graphics ☐ CMPT 363 User Interface Design ☐ UD General Elective:	Manipulation ☐ CMPT 300 ☐ UD General	Animation Computational Photography & Image Operating Systems Elective: ctive:

Other recommended general electives: CMPT 365 - Multimedia Systems

## **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: <a href="http://www.sfu.ca/ugcr/for\_students/wqb\_requirements/breadth.html">http://www.sfu.ca/ugcr/for\_students/wqb\_requirements/breadth.html</a> 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. Other course plans may be possible. This form is not a substitute for the official degree regulations found at <a href="https://www.sfu.ca/students/calendar.html">www.sfu.ca/students/calendar.html</a>. 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: <a href="http://www.sfu.ca/coop/programs/cmpt/prospective.html">http://www.sfu.ca/coop/programs/cmpt/prospective.html</a>.

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

**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 <a href="https://booking.cs.sfu.ca/adbooking/calendar.cgi">https://booking.cs.sfu.ca/adbooking/calendar.cgi</a> or email asadvise@sfu.ca. Please bring a copy of your advising transcript (download at go.sfu.ca) with you to the advising session.