

COMPUTING SCIENCE HONOURS: FALL 2023 GRADUATION PLANNER

Name:	ne:			Stude	ent ID:		Date:			
A minimum of 132	QUIREMENT OVI	complete the Bac	helor of S	cience (B	Sc) in Computing Sci	ence Honours Progi	am. This co	nsists of:		
Lower Division (51 - 52 units) CMPT/MACM/MATH/ STAT (36 - 37 units) WQB courses (15 units)			Upper Division (60 units) CMPT/MACM/MATH (54 units) Elective courses (6 units)				ral Electives 132 Units Overall			
CONTINUANCE	GPA: Students should	l maintain a CGP/	A and a U	DGPA of	3.00 in order to contil	nue in the Computin	g Science h	onours program.		
LOWER DIVISI	ON REQUIREME	NTS (100/200)	– 51 - 52	2 units –	Complete all of:		EL	ECTIVE & BSc F	REQUIREMENTS:	
COMPUTING SCIENCE								REQUIRED WRITING		
☐ CMPT 120	CMPT 120 ☐ CMPT 276			☐ MATH 151 or 150 or 154 ** or 157**				□ CMPT 105W		
□ CMPT 125	□ C	MPT 295	☐ MATH 152 or 155 ** or 158 **					□ CMPT 376W		
□ CMPT 210	☐ CMPT 210 ☐ MACM 101 (B-Sc) MATH 232 or 240				REQUI	RED WQB	
□ CMPT 225 □ STAT 271								B-SCI	□ B-HUM	
*** with a grade of at least B+, and with school permission.								B-SOC	□ B-HUM	
UPPER DIVISION REQUIREMENTS (300/400) – 60 units:								B-SOC		
Bold courses are required. Requirements for breadth, depth and BSc (see next page) BSc CREDENTIAL										
TABLE I: COMPUTING SCIENCE CONCENTRATIONS								□ MACM 316		
Artificial	Visual & Interactive	Computing	Information		Programming Languages &	Theoretical Computing		Additional course	from Tables I or III	
Intelligence	Intelligence Computing		Systems Sys		Software	Science		☐ Additional course from Tables I or III		
☐ CMPT 310	□ CMPT 361	□ CMPT 300	□ CMPT 353		☐ CMPT 373	□ CMPT 307		TABLE III:		
☐ CMPT 340	□ CMPT 363	□ CMPT 305	□СМР	T 354	□ CMPT 383	☐ CMPT 308		COMPUTING	MATHEMATICS	
☐ CMPT 410	□ CMPT 365	□ CMPT 371	☐ CMPT 362		☐ CMPT 384	☐ CMPT 404		MATH 308	□ MACM 401	
☐ CMPT 411	☐ CMPT 412	□ CMPT 379	□ CMPT 372		☐ CMPT 473	☐ CMPT 405		MATH 340	□ MACM 442	
☐ CMPT 413	□ CMPT 461	□ CMPT 403	☐ CMPT 441		☐ CMPT 475	☐ CMPT 406		MATH 343	MACM 316 (BSc)	
☐ CMPT 417	□ CMPT 464	☐ CMPT 431	□ CMP	T 454	☐ CMPT 477	□ CMPT 407		UPPER DIVIS	ION ELECTIVES	
☐ CMPT 419	□ CMPT 466	□ CMPT 433	□ CMPT 456		☐ CMPT 489	□ CMPT 409			<u> </u>	
☐ CMPT 420	□ CMPT 467	□ CMPT 450	□ CMP	T 459		□ CMPT 476	4 1	ANY 3XX/4XX	□ ANY 3XX/4XX	
	□ CMPT 469	□ CMPT 471	☐ CMP	T 474		□ MACM 300				
	□ CMPT 479						- RE	SEARCH REQU	-	
		□ CMPT 499							EARCH	
OPTIONAL REQUIREMENTS: CHOOSE ONE OF THE FOLLOWING										
□ CMPT 416 (3)									☐ CMPT 498 (6)	
□ CMPT 426 □ CMPT 427 □ CMPT 428 □ CMPT 429 □ CMPT 430 □ CMPT 430										
	REQUIREMENTS	S:		Conc	entration:					
Breadth (18)										

Requirement

Total Units (min 132)

Upper Division Units (min 60)

CS Upper Division Units (min 54)

Complete

In Progress

This is a guideline only. For full regulations refer to the <u>SFU Calendar</u>.

Writing (6)

Depth (18)

BSc (9)

Research (6)

Remaining

Total



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ACADEMIC REQUIREMENTS

LOWER DIVISION REQUIREMENTS (or equivalents):

- MATH 154/157 and 155/158, with grades of B+ or higher, may substitute MATH 150/151 and 152 with school permission.
- WQB requirements: Students are required to complete 6 units of writing (W), 6 units of Breadth Science (B-Sci), 6 units of Breadth Social Science (B-Soc), 6 units of Breadth Humanities (B-Hum) and 6 units of Undesignated Breadth (UB).
- Computing Science students automatically fulfill their WQB requirements of 6 UB units with MATH courses and 3 B-Sci units with MACM 101 and 6 W units with CMPT 105W and CMPT 376W. Some WQB courses may fulfill two requirements. Some courses have multiple designations. For complete WQB regulations please refer to: http://www.sfu.ca/ugcr/for_students.html.

UPPER DIVISION REQUIREMENTS:

Breadth requirement (18 units)

One course from each the six areas of Table I must be completed. These courses must include CMPT 300, 307 and 354.

· Depth requirement (24 units)

Eighteen units of additional CMPT courses numbered CMPT 300 or above must be completed, at least twelve of which must be numbered 400 or above. These eighteen units must include CMPT 405; at least one other course in the theoretical computing science concentration; and, unless given special permission, *cannot include CMPT 415, CMPT 416 and CMPT 495*.

In addition, six units of research are required including both of CMPT 415 (3) and 416 (3), or CMPT 498 (6).

BSc Credential (9 units)

Completion of MACM 316 plus two additional courses chosen from Tables I or III.

Writing requirement (3 units)

CMPT 376W required to satisfy UD W requirements.

Note: The following courses may be counted as being part of Tables I or III with permission of the School: CMPT 318, 415, 416, 496, 497, 498 and 700 or 800 level CMPT courses. Appeal form: https://coursys.sfu.ca/forms/apsc-cmpt-appeal-form/

AREA OF CONCENTRATION

Students complete the major requirements, including four courses in the corresponding section in Table I, at least two of which must be at the 400 division. Students may complete one or more concentrations. Courses used to meet the requirements of a concentration may also be used to meet other program requirements.

ELECTIVE COURSES

Students will have room to take additional elective credits in order to complete 132 credits required for graduation.

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 current SFU calendar for details.

CONTINUATION REQUIREMENTS

Students should maintain a CGPA and a UDGPA of 3.00 in order to continue in the Computing Science honours program.

WQB REQUIREMENTS

Students need to complete:

- One Lower Division (LD) Writing Course (CMPT 105W)
- One Upper Division (UD) Writing Course (CMPT 376W)
- 6 units of Breadth Science (B-Sci) (MACM 101 and one other B-Sci)
- 6 units of Breadth Social (B-Soc)
- 6 units of Breadth Humanities (B-Hum)
- 6 units of Undesignated Breadth (UB) (MATH 150/151 and MATH 152)

Please refer to: http://www.sfu.ca/ugcr/for students/wqb requirements/breadth.html for courses that fulfill these requirements.

CO-OPERATIVE EDUCATION

Combines work experience with academic studies—all students are encouraged to apply. 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.

ADVISING

Advising is available at the Burnaby & Surrey campus and Zoom drop-in for students in the Computing Science degree program. Please see the FAS Advising website to https://www.sfu.ca/fas/current-student/advising.html for details. You may also email asadvise@sfu.ca for your questions.

Please bring a copy of your advising transcript (download at go.sfu.ca) with you to the advising session.