SFU FACULTY OF APPLIED SCIENCES

JOINT MAJOR IN COMPUTING SCIENCE AND LINGUISTICS:
FALL 2023 GRADUATION PLANNER

Name: _____ Student ID: _____ Date: _____

PROGRAM REQUIREMENT OVERVIEW:

Lower Division (63-65 units)
- CMPT/MACM/MATH/ STAT/COGS/LING (51 units)
- WQB courses (12 units)

+

Upper Division (57 units)
- CMPT/MACM/MATH (45 units)

+

General Electives

=

120 Units Overall

LOWER DIVISION REQUIREMENTS (100/200) – 52 units:

COMPUTING SCINECE AND LINGUISTICS				
❑ CMPT 120 *	❑ CMPT 225	❑ BUS 232 OR STAT 270 OR STAT 271	❑ MATH 232 OR 240	❑ MACM 101 (B-SCI)
❑ CMPT 125 *	❑ CMPT 276	❑ MATH 150 OR 151 †	❑ LING 220 (B-SOC)	❑ MACM 201 or CMPT 210
❑ CMPT 105W	❑ CMPT 295	❑ MATH 152 †	❑ LING 1XX or LING 2XX	❑ COGS 100 (B-HUM, B-SOC, B-SCI) or B-SOC ^

REQUIRED WQB	
❑ B-SCI	❑ B-SOC
❑ B-HUM	❑ B-HUM
❑ CMPT 105W	❑ LING 282W

* CMPT 130 and CMPT 135 can be used in place of CMPT 120 and CMPT 125

^ chosen from the social sciences electives list in the computing science major program's lower division requirements

† MATH 154 OR MATH 157 can be used in place of MATH 150 OR MATH 151 with a grade of at least B+, and with school permission; MATH 155 OR MATH 158 can be used in place of MATH 152 with a grade of at least B+, and with school permission

UPPER DIVISION REQUIREMENTS (300/400) – 45 units:

CS AND LING	
❑ CMPT 300	❑ CMPT 310
❑ CMPT 307	❑ CMPT 376W
❑ CMPT 413	❑ LING 321
❑ LING 322	❑ LING 400 OR LING 450
FOUR OF	
❑ LING 323	❑ LING 401
❑ LING 324	❑ LING 480
❑ LING 330	❑ LING 481

△ Complete four courses from four distinct areas

△ CMPT 308 and CMPT 379 are recommended

COMPUTING SCIENCE CONCENTRATIONS △					
Artificial Intelligence	*Computer Graphics & Multimedia*	*Computing Systems*	*Information Systems*	*Programming Languages & Software*	*Theoretical Computing Science*
❑ CMPT 310	❑ CMPT 361	❑ **CMPT 300**	❑ CMPT 353	❑ CMPT 373	❑ **CMPT 307**
❑ CMPT 340	❑ CMPT 363	❑ CMPT 305	❑ CMPT 354	❑ CMPT 383	❑ CMPT 308
❑ CMPT 410	❑ CMPT 365	❑ CMPT 371	❑ CMPT 362	❑ CMPT 384	❑ CMPT 404
❑ CMPT 411	❑ CMPT 412	❑ CMPT 379	❑ CMPT 372	❑ CMPT 473	❑ CMPT 405
❑ CMPT 413	❑ CMPT 464	❑ CMPT 403	❑ CMPT 441	❑ CMPT 475	❑ CMPT 406
❑ CMPT 417	❑ CMPT 466	❑ CMPT 431	❑ CMPT 454	❑ CMPT 477	❑ CMPT 407
❑ CMPT 419	❑ CMPT 467	❑ CMPT 433	❑ CMPT 456	❑ CMPT 489	❑ CMPT 409
❑ CMPT 420	❑ CMPT 469	❑ CMPT 450	❑ CMPT 459		❑ CMPT 476
❑ CMPT 420		❑ CMPT 471	❑ CMPT 474		❑ MACM 300
		❑ CMPT 479			
		❑ CMPT 499			

OPTIONAL REQUIREMENTS:

CO-OP EDUCATION					
❑ CMPT 425	❑ CMPT 426	❑ CMPT 427	❑ CMPT 428	❑ CMPT 429	❑ CMPT 430

SUMMARY OF REQUIREMENTS:

REQUIREMENT	COMPLETE	IN PROGRESS	TOTAL	REMAINING
Total Units (Minimum 120)				
Upper Division Units (45)				

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ACADEMIC REQUIREMENTS

LOWER DIVISION REQUIREMENTS (or equivalents):
- CMPT 130 and 135 may substitute CMPT 120 and 125.
- 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).
- Students in the Linguistics and Computing Science joint major automatically fill most of the WQB requirements with the exception of the 3 units of Breadth Science, 3 units of Breadth Social Science and 6 units of Breadth Humanities.

UPPER DIVISION REQUIREMENTS:
- Students must complete at least 45 upper division credits, which include:
    - All of the following: CMPT 300, CMPT 307, CMPT 310, CMPT 413, LING 321 and LING 322
    - One of the following: LING 400 or LING 450
    - Four of the following: LING 323, LING 324, LING 330, LING 401, LING 480 or LING 481
    - Four Courses from Table I. CMPT 308 and 379 are recommended.

ELECTIVE COURSES
Students will have room to take additional elective credits in order to complete the 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.

PREREQUISITE GRADE REQUIREMENTS
Computing science course entry requires a grade of C- or better in each prerequisite course. A minimum 2.40 CGPA is required for 200, 300 and 400 division computing courses.
An overall 2.40 cumulative GPA and a minimum C+ grade in LING 220 are required for admission to the Linguistics major and all Linguistics joint major programs.

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 B-Sci elective
- 6 units of Breadth Social (B-Soc) COGS 100 and B-SOC elective
- 6 units of Breadth Humanities (B-Hum)
- 6 units of Undesignated Breadth (UB) (Math 150/151 and Math 152)
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Please refer to: http://www.sfu.ca/ugcr/for_students/wqb_requirements/breadth.html for courses that fulfill these requirements.

OTHER REQUIREMENTS
Depending on the student's choice, either a bachelor of arts from the Faculty of Arts and Social Sciences (FASS), or a bachelor of science from the Faculty of Applied Sciences (FAS) will be awarded. Students must fulfil their chosen faculty's distinct requirements.

BACHELOR OF ARTS PROGRAM REQUIREMENTS

For all bachelor of arts (BA) programs, students complete 120 units, which includes

- at least 60 units that must be completed at Simon Fraser University
- at least 45 upper division units, of which at least 30 upper division units must be completed at Simon Fraser University
- at least 65 units (including 21 upper division units) in Faculty of Arts and Social Sciences courses
- satisfaction of the writing, quantitative, and breadth requirements
- an overall cumulative grade point average (CGPA) and upper division CGPA of at least 2.0, and a program (major, joint major, extended minor, minor) CGPA and upper division CGPA of at least 2.0

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
Drop-In Advising is available at the Surrey and Burnaby campus for students in the Computing Science degree program. Please see the online calendar here https://www.sfu.ca/fas/current-student/advising.html to view drop-in times or email asadvise@sfu.ca.

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