

# COMPUTING SCIENCE SECOND DEGREE (BSc): FALL 2023 GRADUATION PLANNER

Name: \_\_\_\_\_ Student ID: \_\_\_\_\_ Date: \_\_\_\_\_

## PROGRAM REQUIREMENT OVERVIEW

A minimum of 45 upper division units are required to complete the Bachelor of Science (BSc) in Computing Science Second Degree Program. This consists of:

Lower Division (33 – 34 units)  
 • CMPT/MACM/MATH/STAT  
 May be waived dependent on past education



Upper Division (45 units)  
 • CMPT/MACM/MATH (39 units)  
 • Elective courses (6 units)



Minimum 45 Upper Division Units

**CONTINUANCE GPA:** Students who do not maintain at least a 2.40 CGPA, will be placed **on probation in 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.**

## LOWER DIVISION REQUIREMENTS (100/200) – 33 – 34 units

Students will need to apply for course waivers for the lower division requirements prior to starting in the program. All bolded lower division courses must be completed or waived to meet the program requirements. The remaining courses are optional

### COMPUTING SCIENCE

<input type="checkbox"/> CMPT 120	<input type="checkbox"/> CMPT 295	<input type="checkbox"/> MATH 152
<input type="checkbox"/> CMPT 125	<input type="checkbox"/> MACM 101 *	<input type="checkbox"/> MATH 232 OR 240
<input type="checkbox"/> CMPT 225 *	<input type="checkbox"/> CMPT 210	<input type="checkbox"/> STAT 271
<input type="checkbox"/> CMPT 276	<input type="checkbox"/> MATH 151 OR 150	

\* Necessary courses to enroll into most upper division CMPT classes

## ELECTIVE & BSc REQUIREMENTS:

### WRITING

- CMPT 376W: pre-requisites are FAL X99 and CMPT 225. CMPT 105W and CMPT 276 are waived.

### BSc CREDENTIAL

- MACM 316
- Additional course from Tables I or III
- Additional course from Tables I or III

### TABLE III: COMPUTING MATHEMATICS

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> MACM 401 | <input type="checkbox"/> MATH 308 |
| <input type="checkbox"/> MACM 442 | <input type="checkbox"/> MATH 340 |
| <b>MACM 316 (BSc)</b>             | <input type="checkbox"/> MATH 343 |

### UPPER DIVISION ELECTIVES

- ANY 3XX/4XX
- ANY 3XX/4XX

## UPPER DIVISION REQUIREMENTS (300/400) – 45 units: Requirements for breadth, depth and BSc (next page)

### TABLE I: COMPUTING SCIENCE CONCENTRATIONS

Artificial Intelligence	Visual and Interactive Computing	Computing Systems	Information Systems	Programming Languages & Software	Theoretical Computing Science
<input type="checkbox"/> CMPT 310	<input type="checkbox"/> CMPT 361	<input type="checkbox"/> <b>CMPT 300</b>	<input type="checkbox"/> CMPT 353	<input type="checkbox"/> CMPT 373	<input type="checkbox"/> <b>CMPT 307</b>
<input type="checkbox"/> CMPT 340	<input type="checkbox"/> CMPT 363	<input type="checkbox"/> CMPT 305	<input type="checkbox"/> CMPT 354	<input type="checkbox"/> CMPT 383	<input type="checkbox"/> CMPT 308
<input type="checkbox"/> CMPT 410	<input type="checkbox"/> CMPT 365	<input type="checkbox"/> CMPT 371	<input type="checkbox"/> CMPT 362	<input type="checkbox"/> CMPT 384	<input type="checkbox"/> CMPT 404
<input type="checkbox"/> CMPT 411	<input type="checkbox"/> CMPT 412	<input type="checkbox"/> CMPT 379	<input type="checkbox"/> CMPT 372	<input type="checkbox"/> CMPT 473	<input type="checkbox"/> CMPT 405
<input type="checkbox"/> CMPT 413	<input type="checkbox"/> CMPT 461	<input type="checkbox"/> CMPT 403	<input type="checkbox"/> CMPT 441	<input type="checkbox"/> CMPT 475	<input type="checkbox"/> CMPT 406
<input type="checkbox"/> CMPT 417	<input type="checkbox"/> CMPT 464	<input type="checkbox"/> CMPT 431	<input type="checkbox"/> CMPT 454	<input type="checkbox"/> CMPT 477	<input type="checkbox"/> CMPT 407
<input type="checkbox"/> CMPT 419	<input type="checkbox"/> CMPT 466	<input type="checkbox"/> CMPT 433	<input type="checkbox"/> CMPT 456	<input type="checkbox"/> CMPT 489	<input type="checkbox"/> CMPT 409
<input type="checkbox"/> CMPT 420	<input type="checkbox"/> CMPT 467	<input type="checkbox"/> CMPT 450	<input type="checkbox"/> CMPT 459		<input type="checkbox"/> CMPT 476
	<input type="checkbox"/> CMPT 469	<input type="checkbox"/> CMPT 471	<input type="checkbox"/> CMPT 474		<input type="checkbox"/> MACM 300
		<input type="checkbox"/> CMPT 479			
		<input type="checkbox"/> CMPT 499			

## OPTIONAL REQUIREMENTS:

### CO-OP EDUCATION

- CMPT 426
- CMPT 427
- CMPT 428
- CMPT 429
- CMPT 430

## SUMMARY OF REQUIREMENTS:

Breadth	_____	(15)
Depth	_____	(12)
BSc	_____	(9)
Writing	_____	(3)

Requirement	Complete	In Progress	Total	Remaining
Upper Division Units (min 45)				
CS Upper Division Units (min 39)				

## COMPUTING SCIENCE SECOND DEGREE: FALL 2023 GRADUATION PLANNER

### ACADEMIC REQUIREMENTS

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#### LOWER DIVISION REQUIREMENTS (or equivalents):

For most second degree students, some of the lower division prerequisite requirements will be waived due to work completed previously.

Students without this background will require additional time to complete lower division prerequisites prior to the commencement of upper division courses to complete the second degree.

#### UPPER DIVISION REQUIREMENTS:

- **Breadth requirement (15 units)**  
Five courses from the six areas of Table I must be completed. CMPT 300 and 307 are mandatory; in addition to these two, choose three more courses from the other three columns of Table I.
- **Depth requirement (12 units)**  
Four 400-level courses from Table I are required. These are **in addition** to the five breadth courses above (excluding CMPT 415, 416, and 496, 497, 498 which may be included by special permission). Appeal form:
- **Additional units for the BSc, BEd or BA Credential**
  - BSc (9 units). Completion of MACM 316 plus two **additional** courses chosen from Tables I or III.
  - BEd (3 units). One additional CMPT course from Table I or III, to total at least 30 UD CMPT units.
  - BA (3 units\*). One additional CMPT course chosen from Table I or III, to total at least 30 UD CMPT units. \*To fully complete the BA credential, 15 units must be completed in the Faculty of Arts and Social Sciences (FASS) including at least 6 upper division FASS units.
- **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.

#### ELECTIVE COURSES

Students will have room to take 6 additional upper division elective credits in order to complete the 45 upper division credits required for graduation.

#### FACULTY OF APPLIED SCIENCE RESIDENCY REQUIREMENTS

At least two thirds of the program's 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 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.**

#### 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

**Academic advising** is available for students in the Faculty of Applied Sciences. Please see the FAS advising page (<https://www.sfu.ca/fas/current-student/advising.html>) to book an appointment and view drop-in times. **Please bring a copy of your [advising transcript](#) with you to the advising session.** Alternatively, you can email your questions to [asadvise@sfu.ca](mailto:asadvise@sfu.ca).