

Name: \_\_\_\_\_

Student ID: \_\_\_\_\_

Date: \_\_\_\_\_

PROGRAM REQUIREMENT OVERVIEW

A minimum 120 units are required to complete the Bachelor of Science (BSc) in Software Systems Program:

- Lower Division (57 - 58 LD units)

- CMPT/MACM/MATH/STAT (42 - 43 units)
  - WQB courses (15 units)
- Upper Division (45 UD units)

- CMPT/MACM (42 units)
  - UD elective courses (3 units)
- General Electives (units vary)

- to reach 120 units
  - take throughout your degree

A CGPA minimum of 2.40 is required to: access 200/300/400 level CMPT courses, and to continue in the program. See reverse for details.

LOWER DIVISION REQUIREMENTS (100/200):

SOFTWARE SYSTEMS (42-43 units)			REQUIRED WQB (15 units)
<input type="checkbox"/> CMPT 105W, ENSC 105W, MSE 101W, or SEE 100W	<input type="checkbox"/> CMPT 213	<input type="checkbox"/> MACM 101* (B-SCI)	<input type="checkbox"/> B-SCI
	<input type="checkbox"/> CMPT 225*	<input type="checkbox"/> MATH 151 or 150	<input type="checkbox"/> B-SOC
<input type="checkbox"/> CMPT 130	<input type="checkbox"/> CMPT 276	<input type="checkbox"/> MATH 152	<input type="checkbox"/> B-SOC
<input type="checkbox"/> CMPT 135	<input type="checkbox"/> CMPT 295	<input type="checkbox"/> MATH 232 or 240	<input type="checkbox"/> B-HUM
<input type="checkbox"/> CMPT 210†	<input type="checkbox"/> MSE 110	<input type="checkbox"/> STAT 271	<input type="checkbox"/> B-HUM

\*necessary courses to enroll in most UD courses. † see reverse for details.

UPPER DIVISION REQUIREMENTS (300/400):

REQUIRED (6 units)	
<input type="checkbox"/> CMPT 307	<input type="checkbox"/> CMPT 376W

REQUIRED SYSTEMS (12 units)	
<input type="checkbox"/> CMPT 300	
AND THREE OF	
<input type="checkbox"/> CMPT 354	
<input type="checkbox"/> CMPT 371	
<input type="checkbox"/> CMPT 372	
<input type="checkbox"/> CMPT 431	
<input type="checkbox"/> CMPT 433	
<input type="checkbox"/> CMPT 454	
<input type="checkbox"/> CMPT 471	

REQUIRED SOFTWARE (12 units)	
<input type="checkbox"/> CMPT 373	
<input type="checkbox"/> CMPT 473	
AND TWO OF	
<input type="checkbox"/> CMPT 379	
<input type="checkbox"/> CMPT 383	
<input type="checkbox"/> CMPT 384	
<input type="checkbox"/> CMPT 474	
<input type="checkbox"/> CMPT 477	

Math minor:

MATH 308MATH408

MATH 345MATH445/ 448

MACM 316

CAPSTONE REQUIREMENTS (6 units)	
Complete Either Set	
Both of	Two of
<input type="checkbox"/> CMPT 494	<input type="checkbox"/> CMPT 379
<input type="checkbox"/> CMPT 495	<input type="checkbox"/> CMPT 431
	<input type="checkbox"/> CMPT 433

REQUIRED DEPTH (6 units)	
SIX ADDITIONAL 300/400 LEVEL CMPT/MACM UNITS*	
<input type="checkbox"/>	<input type="checkbox"/>

UPPER DIVISION ELECTIVE (3 units)	
<input type="checkbox"/> ANY 3XX/4XX	

OPTIONAL REQUIREMENTS:

COMPUTING SCIENCE CO-OP EDUCATION				
<input type="checkbox"/> CMPT 426	<input type="checkbox"/> CMPT 427	<input type="checkbox"/> CMPT 428	<input type="checkbox"/> CMPT 429	<input type="checkbox"/> CMPT 430

SUMMARY OF REQUIREMENTS:

Requirement	Complete	In-Progress	Total	Remaining
Total Units (min 120)				
Upper Division Units (min 45)				
CMPT UD Units (min 42)				

This graduation planner of the calendar requirements is ONLY a guideline. Refer to the SFU Calendar for full and complete regulations.

## SOFTWARE SYSTEMS MAJOR: FALL 2023 GRADUATION PLANNER

### ACADEMIC REQUIREMENTS

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#### LOWER DIVISION REQUIREMENTS (57-58 units):

- MATH 154/157 and 155/158 (with grades of B+ or higher) may substitute MATH 150/151 and 152 with permission of the School
- WQB requirements: Students are required to complete 6 units of writing (W), 6 units of quantitative (Q), 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). Software Systems students automatically fulfill their WQB requirements of 6 Q and UB units with MATH courses, 3 B-Sci units with MACM 101, and 6 W units with CMPT 105W and CMPT 376W. For complete WQB regulations please refer to: [http://www.sfu.ca/ugcr/for\\_students.html](http://www.sfu.ca/ugcr/for_students.html).

#### UPPER DIVISION REQUIREMENTS (42-45 units):

##### Required (6)

- CMPT 307
- CMPT 376W

##### Systems Requirement (12)

- CMPT 300 plus three additional CMPT 300/400 courses as listed on the reverse.

##### Software Engineering Requirement (12)

- CMPT 373 and CMPT 473, plus two additional CMPT 300/400 courses as listed on the reverse.

##### Capstone Project Requirement (6)

- Complete either set as listed on the reverse.

##### Depth Requirement (6)

- Complete six additional CMPT or MACM units at the 300/400 level. These units *cannot* be double-counted with any of the above UD requirements. CMPT 415, 416 and 498 may only be included with permission of the School.

##### Notes on Upper Division Requirements (3)

- In the course of meeting SOSY major program requirements, students will have completed at least nine CMPT/MACM units at the 400 level. Please ensure you meet this calendar requirement. To use CMPT 415, 416 and/or 498, consult with FAS Advising.
- The School requires SOSY major students to complete 42 UD CMPT/MACM units. The University requires completion of 45 UD units. Take an *additional 3 units* at the 300/400 level (CMPT or non-CMPT) to reach 45 UD units.

#### GENERAL ELECTIVES

Completion of the SOSY major LD and UD unit requirements is less than the 120 units required for graduation. Take additional units to reach the University requirement of 120 units total.

#### 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. At least two thirds of the UD units in the courses of a school offering a program (or jointly offering a program) must be earned through that school at Simon Fraser University.

#### CONTINUATION REQUIREMENTS

Students who do not maintain a CGPA of at least a 2.40, will be placed on probation by the School of Computing Science. Probationary students may not have access to CMPT 200/300/400 level courses. Develop a course plan with an advisor every term until GPA requirements are met.

#### CO-OPERATIVE EDUCATION (OPTIONAL)

Combines work experience with academic studies. All students are encouraged to join to experience the benefits of applying academic studies to work and work experience to academic studies. Note: Co-op units are not academic credits. Successful completion of three co-op terms results in a co-op designation on the BSc degree parchment. For more information about Co-op, please see: <http://www.sfu.ca/coop/programs/cmpt/prospective.html>.

#### FAS ADVISING

FAS Advisors are available for in-person booked or online drop-in advising, at the Surrey and Burnaby campus. Advising schedule: <https://www.sfu.ca/fas/current-student/advising.html>. Kindly have a recent soft or hard copy of your advising transcript at the advising session: <https://www.sfu.ca/students/enrolment-services/records/transcripts/advising-transcripts.html>

This is ONLY a guideline. Refer to the SFU Calendar for full and complete regulations: <https://www.sfu.ca/students/calendar/>