

GEOGRAPHIC INFORMATION SCIENCE: FALL 2020 GRADUATION PLANNER

Name: _____ Student ID: _____ Date: _____

PROGRAM REQUIREMENT OVERVIEW

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

- Lower Division (57 units)
- CMPT/MACM/MATH/STAT/GEOG (45 units)
 - WQB courses (12 units)



- Upper Division (45 units)
- CMPT/MACM/MATH (21 units)
 - GEOG (24 units)



General Electives



120 Units Overall

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) – 52 units – Complete all of:

ALL OF

<input type="checkbox"/> CMPT 120	<input type="checkbox"/> GEOG 100	<input type="checkbox"/> MACM 101 (B-SCI)
<input type="checkbox"/> CMPT 125	<input type="checkbox"/> GEOG 111	<input type="checkbox"/> MACM 201
<input type="checkbox"/> CMPT 127	<input type="checkbox"/> GEOG 253	<input type="checkbox"/> MATH 151 OR 150 OR 154** OR 157**
<input type="checkbox"/> CMPT 225	<input type="checkbox"/> GEOG 255	<input type="checkbox"/> MATH 152 OR 155** OR 158**
<input type="checkbox"/> GEOG 213 OR 214 OR 215 OR 221 OR 241 OR 261	<input type="checkbox"/> GEOG 251 OR STAT 270	<input type="checkbox"/> MATH 232 or 240

* CMPT 130 and CMPT 135 can be used in place of CMPT 120, CMPT 125, and CMPT 127

** May be used with a grade of B+ or better and permission of the School of Computing Science

WQB ELECTIVES

BREADTH

<input type="checkbox"/> B-SOC
<input type="checkbox"/> B-SOC
<input type="checkbox"/> B-HUM
<input type="checkbox"/> B-HUM

WRITING

<input type="checkbox"/> CMPT 105W
<input type="checkbox"/> CMPT 376W OR GEOG 322W OR GEOG 389W OR GEOG 455W

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

REQUIRED

<input type="checkbox"/> CMPT 307	<input type="checkbox"/> CMPT 354	<input type="checkbox"/> CMPT 361
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COMPUTING

CHOOSE 1 OF THE FOLLOWING	
<input type="checkbox"/> CMPT 300	<input type="checkbox"/> CMPT 363
<input type="checkbox"/> CMPT 371	<input type="checkbox"/> CMPT 384
CHOOSE 2 OF THE FOLLOWING	
<input type="checkbox"/> CMPT 419	<input type="checkbox"/> CMPT 412
<input type="checkbox"/> CMPT 454	<input type="checkbox"/> CMPT 461
<input type="checkbox"/> CMPT 470	
CMPT OR MACM (3 UD UNITS)	
<input type="checkbox"/> _____	

GEOGRAPHY

CHOOSE 3 OF THE FOLLOWING	
<input type="checkbox"/> GEOG 351	<input type="checkbox"/> GEOG 352
<input type="checkbox"/> GEOG 353	<input type="checkbox"/> GEOG 355
<input type="checkbox"/> GEOG 356	
CHOOSE 2 OF THE FOLLOWING	
<input type="checkbox"/> GEOG 451	<input type="checkbox"/> GEOG 453
<input type="checkbox"/> GEOG 455	<input type="checkbox"/> GEOG 457
PHYSICAL OR HUMAN GEOGRAPHY (4 UD UNITS)	
<input type="checkbox"/> _____	

OPTIONAL REQUIREMENTS:

CMPT OR GEOG CO-OP EDUCATION

<input type="checkbox"/> CMPT 426 or GEOG 302
<input type="checkbox"/> CMPT 427 OR GEOG 303
<input type="checkbox"/> CMPT 428 OR GEOG 402
<input type="checkbox"/> CMPT 429 OR GEOG 403
<input type="checkbox"/> CMPT 430 OR GEOG 409

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, 125 and 127.
- 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 Molecular Biology and Biochemistry and Computing Science joint major automatically fill most of the WQB requirements with the exception of the lower division W course, 6 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 307, CMPT 354, CMPT 361, CMPT 376W
 - One of the following: CMPT 300, CMPT 363, CMPT 371 & CMPT 384
 - Three of the following: GEOG 351, GEOG 352, GEOG 353, GEOG 355 & GEOG 356
 - Two of the following: CMPT 419, CMPT 412, CMPT 454, CMPT 461 & CMPT 470
 - Two of the following: GEOG 451, GEOG 453, GEOG 455 & GEOG 457
 - Four additional upper division units in physical or human geography. Students should consult with the program advisor when choosing these units
 - Three additional upper division units in CMPT or MACM courses
 - Writing requirement: CMPT 105W & CMPT 376W or GEOG 322W/389W/455W

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.

Geography course entry requires a pass in each prerequisite course.

WQB REQUIREMENTS

Students need to complete:

- One Lower Division (LD) Writing Course (CMPT 105W or other lower W course if planning on completing MBB 309W)
- 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)
- 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.

OTHER 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

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://booking.cs.sfu.ca/adbooking/calendar.cgi> 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.