

**GEOGRAPHIC INFORMATION SCIENCE: FALL 2022 GRADUATION PLANNER**

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

**PROGRAM REQUIREMENT OVERVIEW**

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

- Lower Division (54-55 units)
- CMPT/MACM/MATH/STAT/GEOG (42-43 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. Reinstatement from probationary standing occurs when the CGPA improves to 2.40 or better and is maintained.

**LOWER DIVISION REQUIREMENTS (100/200) – 42-43 units – Complete all of:**

ALL OF		
<input type="checkbox"/> CMPT 120 or CMPT 130 *	<input type="checkbox"/> GEOG 100 (B-HUM or B-SOC)	<input type="checkbox"/> MACM 101 (B-SCI)
<input type="checkbox"/> CMPT 125 or CMPT 135 *	<input type="checkbox"/> GEOG 111 (B-SCI)	<input type="checkbox"/> MACM 201 or CMPT 210
<input type="checkbox"/> CMPT 225	<input type="checkbox"/> GEOG 253 (B-SCI)	<input type="checkbox"/> MATH 150 OR 151 OR 154 <sup>†</sup> OR 157 <sup>†</sup>
<input type="checkbox"/> GEOG 213 or 214 or 215 or 221 or 241 or 261	<input type="checkbox"/> GEOG 255	<input type="checkbox"/> MATH 152 OR 155 <sup>†</sup> OR 158 <sup>†</sup>
	<input type="checkbox"/> GEOG 251 or STAT 270 or STAT 271 **	<input type="checkbox"/> MATH 232 or 240

<sup>†</sup> May be used with a grade of B+ or better and permission of the School of Computing Science  
 Courses used with B designations can be used to fulfill WQB requirements.

\*Students should complete the set of CMPT 120 + CMPT 125 or the set of CMPT 130 + CMPT 135

\*\*Either (CMPT 210 and STAT 271) as a set or (MACM 201 and STAT 270) as a set

**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"/> Any lower division W course (Recommended CMPT 105W)
<input type="checkbox"/> Any CMPT or GEOG 3XX or 4XX W course (Recommended CMPT 376W 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

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 372	<input type="checkbox"/> CMPT 412
<input type="checkbox"/> CMPT 419	<input type="checkbox"/> CMPT 454
<input type="checkbox"/> CMPT 461	
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)				

**GEOGRAPHIC INFORMATION SCIENCE: FALL 2022 GRADUATION PLANNER****ACADEMIC REQUIREMENTS**

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

- Either both of CMPT 120 & CMPT 125 or both of CMPT 130 & CMPT 135.
- 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 Geographic Information Science 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
  - 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 372, CMPT 412, CMPT 419, CMPT 454, CMPT 461
  - 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

**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 (Recommend CMPT 105W or other lower W courses)
- One Upper Division (UD) Writing Course (Recommend CMPT 376W or GEOG 455W, 362W, 381W, 389W)
- 6 units of Breadth Science (B-Sci): MACM 101 and (GEOG 111 or GEOG 253)
- 6 units of Breadth Social (B-Soc). If using GEOG 100 as B-Soc, you need to take another B-Soc elective.
- 6 units of Breadth Humanities (B-Hum). If using GEOG 100 as B-Hum, you need to take another B-Hum elective.
- 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](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**

**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).