

GEOGRAPHIC INFORMATION SCIENCE HONOURS : FALL 2022 GRADUATION PLANNER

Name: _____ Student ID: _____ Date: _____

PROGRAM REQUIREMENT OVERVIEW

General Electives

The School of Computing Science and the Department of Geography offer an honours program leading to a bachelor of science (BSc) degree. This consists of:

Lower Division (60-61 units)

- CMPT/MACM/MATH/STAT/GEOG (51-52 units)
- WQB courses (9 units)



Upper Division (58-61 units)

- CMPT/MACM/MATH (30 units)
- GEOG (28 units)
- UD W course



Electives

- To fulfill min of 60 upper division units



120-122 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) – 51-52 units:

COMPLETE ALL	
<input type="checkbox"/> CMPT 120 or CMPT 130 *	<input type="checkbox"/> GEOG 100 (B-HUM or B-SOC)
<input type="checkbox"/> CMPT 125 or CMPT 135 *	<input type="checkbox"/> GEOG 111 (B-SCI)
<input type="checkbox"/> CMPT 225	<input type="checkbox"/> GEOG 253 (B-SCI)
<input type="checkbox"/> CMPT 276	<input type="checkbox"/> GEOG 255
<input type="checkbox"/> CMPT 295	<input type="checkbox"/> GEOG 213 (B-SCI) or 214 OR 215
<input type="checkbox"/> MATH 150 or 151 OR 154 [†] OR 157 [†]	<input type="checkbox"/> GEOG 221 (B-SOC) or 241 (B-SOC) OR 261 (B-SOC)
<input type="checkbox"/> MATH 152 or 155 [†] OR 158 [†]	<input type="checkbox"/> GEOG 251 or STAT 270 or STAT 271 **
<input type="checkbox"/> MATH 232 or 240	<input type="checkbox"/> MACM 101 (B-SCI)
	<input type="checkbox"/> MACM 201 or CMPT 210 **

[†] May be used with a grade of B+ or better and permission of the School of Computing Science
 Courses with B designations can be used to satisfy 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

UPPER DIVISION REQUIREMENTS (300/400) – 58-61units:

COMPUTING SCIENCE		GEOGRAPHY	
ALL OF		CHOOSE 3 OF THE FOLLOWING	
<input type="checkbox"/> CMPT 300	<input type="checkbox"/> CMPT 307	<input type="checkbox"/> GEOG 351	<input type="checkbox"/> GEOG 352
<input type="checkbox"/> CMPT 354	<input type="checkbox"/> CMPT 361	<input type="checkbox"/> GEOG 353	<input type="checkbox"/> GEOG 355
<input type="checkbox"/> CMPT 454	<input type="checkbox"/> MACM 316	<input type="checkbox"/> GEOG 356	
CHOOSE 4 OF THE FOLLOWING		CHOOSE 2 OF THE FOLLOWING	
<input type="checkbox"/> CMPT 363	<input type="checkbox"/> CMPT 371	<input type="checkbox"/> GEOG 451	<input type="checkbox"/> GEOG 453
<input type="checkbox"/> CMPT 372	<input type="checkbox"/> CMPT 384	<input type="checkbox"/> GEOG 455	<input type="checkbox"/> GEOG 457
<input type="checkbox"/> CMPT 412	<input type="checkbox"/> CMPT 419	PHYSICAL OR HUMAN GEOGRAPHY (4 UD UNITS)	
<input type="checkbox"/> CMPT 461		<input type="checkbox"/> _____	

WQB ELECTIVES

REQUIRED BREADTH
<input type="checkbox"/> B-SOC _____
<input type="checkbox"/> B-SOC _____
<input type="checkbox"/> B-HUM _____
<input type="checkbox"/> B-HUM _____
REQUIRED 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)

UD ELECTIVES
<input type="checkbox"/> _____

HONOURS REQUIREMENT
<input type="checkbox"/> GEOG 491

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 (Minimum 60)				

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

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 program automatically fill most of the WQB requirements with the exception of the lower division W course, partial B-HUM or partial B-SOC courses.
- 6 units of Breadth Social Science can be fulfilled by GEOG 100 & GEOG 221/GEOG 241/GEOG 261. If using GEOG 100 as B-HUM course, students need to take another B-SOC course.
- 6 units of Breadth Humanities can be fulfilled by GEOG 100 & one extra B-HUM course. If GEOG 100 is used as a B-SOC course, students need to take 6 units of B-HUM courses.

UPPER DIVISION REQUIREMENTS:

- Students must complete at least 58 upper division credits, which include:
 - All of the following: CMPT 300, CMPT 307, CMPT 354, CMPT 361, CMPT 454, GEOG 491, MACM 316
 - Three of the following: GEOG 351, GEOG 352, GEOG 353, GEOG 355 & GEOG 356
 - Four of the following: CMPT 363, CMPT 371, CMPT 372, CMPT 384, CMPT 412, CMPT 419, 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
 - Writing requirement: CMPT 376W or GEOG 362W/ 381W/ 389W/ 412W/ 417 W/ 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.

GRADUATION GPA REQUIREMENT

Students in honours program require to have 3.00 or greater in CGPA and UDGPA for graduation.

WQB REQUIREMENTS

Students need to complete:

- One Lower Division (LD) Writing Course (CMPT 105W or other lower W course if planning on completing GEOG 362W/ 381W/ 389W/ 412W/ 417W/ 455W)
- One Upper Division (UD) Writing Course CMPT 376W or GEOG 362W/ 381W/ 389W/ 412W/ 417W/ 455W
- 6 units of Breadth Science (B-Sci): MACM 101 and (GEOG 111 or GEOG 253)
- 6 units of Breadth Social (B-Soc): GEOG 221 / GEOG 241 / GEOG 261 and GEOG 100. You may take another B-Soc if using GEOG 100 as B-Hum.
- 6 units of Breadth Humanities (B-Hum). If using GEOG 100 as B-Hum, you need to 3 units of B-Hum elective. If using GEOG 100 as B-Soc, you need to take 6 units of B-Hum elective.
- 6 units of Undesignated Breadth (UB) (Math 150/151 and Math 152)

Please refer to: http://www.sfu.ca/uqcr/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 asadvice@sfu.ca.