



PROGRAM PLANNING GUIDE

ID: Name:

Post-Diploma Bachelor of Science

Geography, with a Concentration in Geographical Information Science



The Post-Diploma B.Sc. in geography, with a concentration in geographical information science, is a two-year program directed toward graduates of approved college programs in geography, geomatics and land resource information systems. The program complements previous technical training in geomatics or land information systems and the primary focus is to provide you with the theoretical knowledge and technical skills that will enable you to analyze the spatial organization and interaction of all creatures and ecological processes on the planet — and sometimes beyond it — in order to address real-world issues.

What determines my program requirements?

Please refer to the Academic Calendar (www.ulethbridge.ca/ross/academic-calendar) for complete program information.

Calendar Year: 2024/2025 - Your calendar year is set to the academic year you are admitted (or readmitted) and you should follow the requirements for that year for the duration of your program.

Faculty/School: Faculty of Arts and Science (www.ulethbridge.ca/artsci)

Program(s): Bachelor of Science

Major(s): Geography, with a Concentration in Geographical Information Science

Minor: A defined set of courses, designed to provide depth in a particular discipline, study in an interdisciplinary area, or focus on a theme-related topic. To learn more about optional minors see www.ulethbridge.ca/ross/minors.

Am I admissible to this program?

Admission: www.ulethbridge.ca/ross/admissions/undergrad

Transfer: www.ulethbridge.ca/ross/transfer-resources

When/How do I apply to the University?

Deadlines: www.ulethbridge.ca/ross/admissions/undergrad/deadlines

Step-by-Step: www.ulethbridge.ca/ross/admissions/step-by-step

Where can I find information on courses?

Course Catalogue: www.ulethbridge.ca/ross/courses

Registration Guide: www.ulethbridge.ca/ross/registration-guide

When can I register for classes?

Register early! (March for Summer and Fall; November for Winter)

Registration Dates: www.ulethbridge.ca/ross/registration-dates

How can I enhance my program?

Career Bridge: www.ulethbridge.ca/career-bridge

Co-op Education: www.ulethbridge.ca/career-bridge/co-operative-education

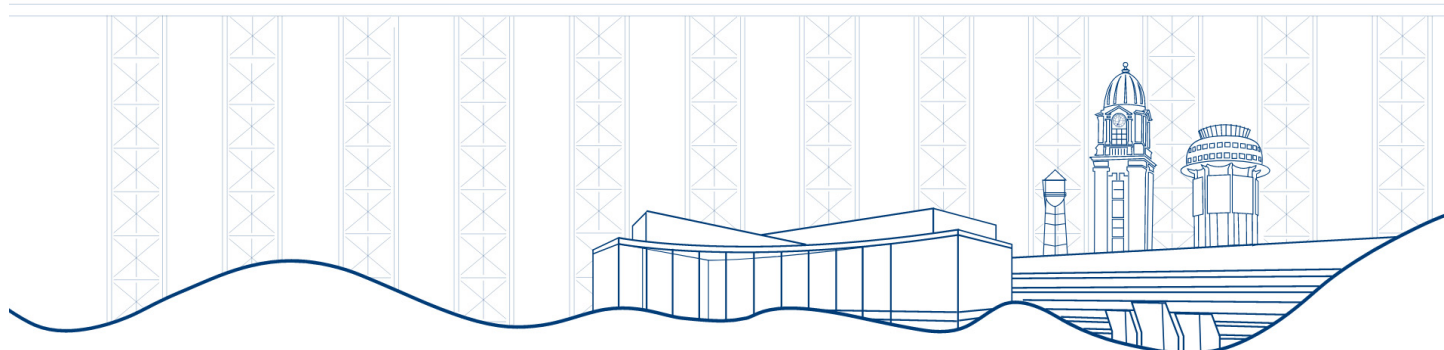
What supports are available to students?

Student Services: www.ulethbridge.ca/campus-life/student-services

Student Success Centre: www.ulethbridge.ca/student-success-centre

Accessible Learning: www.ulethbridge.ca/ross/alc

Counselling Services: www.ulethbridge.ca/counselling



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Contact an Academic Advisor (www.ulethbridge.ca/ross/academic-advising) for advising information

This is a planning guide and not a graduation check or guarantee of course offerings. You should have a program check done in your final year of studies. Students are responsible for ensuring they have met program requirements. This guide should be used in conjunction with the University of Lethbridge Academic Calendar, which is the final authority on program requirements and academic regulations.



Required courses and notes

Program Requirements (20 Courses)

Students must complete at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education (i.e. no courses labelled ABHL, ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, HLSC, HRLR, IGBM, IMGT, MGT, MKTG, NURS, PUBH, or TREC), as follows, with a minimum GPA of 2.00.

Required core (14 courses):

- _____ 1. Computer Science 1620 - Fundamentals of Programming I
- _____ 2. Geography 1200 - Introduction to Human Geography
- _____ 3. Geography 2210 - Spatial Organization of Economic Activity
- _____ 4. Geography 2700 - Geographical Data and Analysis
- _____ 5. Geography 3720 - Remote Sensing
- _____ 6. Geography 3740 - Geographical Information Systems
- _____ 7. Geography 4725 - Advanced Remote Sensing
- _____ 8. Geography 4740 - Advanced Geographical Information Systems
- _____ 9.-10. **Two of:**
 - _____ Environmental Science 2000 - Fundamentals of Environmental Science
 - _____ Geography 2030 - Geomorphology
 - _____ Geography 2300 - Weather and Climate
- _____ 11. **One of:**
 - _____ Geography 3700 - Mapping in the Cloud
 - _____ Geography 3710 - Field Techniques in the Earth Sciences
- _____ 12. **One of:**
 - _____ Geography 4400 - Advanced Hydrology
 - _____ Geography 4700 - Advanced Digital Mapping
 - _____ Geography 4710 - Remote Sensing Field Techniques
 - _____ Geography 4751 - Spatial Modelling
 - _____ Geography 4753 - Seminar in Remote Sensing
 - _____ Remote Sensing 4650 - Physics of Remote Sensing
- _____ 13. One additional course (3.0 credit hours) in Geography or Archaeology at the 3000/4000 level, with a Science designation
- _____ 14. One additional course (3.0 credit hours) in Geography or Archaeology at the 4000 level, with a Science designation

Electives (six courses):

- _____ 15.-17. Three courses (9.0 credit hours) from List I: Fine Arts and Humanities
 - _____ 15. _____
 - _____ 16. _____
 - _____ 17. _____
- _____ 18. One course (3.0 credit hours) from List II: Social Sciences
 - _____
- _____ 19. One course (3.0 credit hours) from List I: Fine Arts and Humanities or List II: Social Sciences
 - _____
- _____ 20. One additional course (3.0 credit hours) at the 3000/4000 level, excluding Activity courses (labeled PHAC and MUSE)
 - _____

Notes

Courses labeled as "electives" may be used towards a minor if a minor is chosen.

To determine if a given course has a Fine Arts and Humanities, Social Science, or Science designation, see List I: Fine Arts and Humanities Courses, List II: Social Science Courses, and List III: Science Courses (see **School of Liberal Education** in the 2024/2025 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar).

Students may not take for credit courses that have close equivalents in their diploma program. Students should consult the Program Coordinator for Geography (Geographical Information Science Concentration) concerning possible adjustments to the above program requirements. Excluded courses include the following: Geography 1000 and Geography 2735.



Recommended Course Sequence

Shown below is the recommended sequence of courses for your degree. Consult timetables for course offerings, prerequisites, and corequisites before registering each term as some courses may have limited offerings (ie. once a year, alternating years, or only offered in the Fall or Winter terms). Consult with an Academic Advisor in your faculty if you wish to alter this sequence with regard to the specifically listed courses.

Note that this sequence was prepared based on course scheduling at the time of publication and may change during your studies.

First Year

Computer Science 1620
Two of: Environmental Science 2000, Geography 2030, Geography 2300
Geography 1200
Geography 2700
Geography 3720
Geography 3740
Geography 4740
Lib Ed Requirement course
Lib Ed Requirement course

Second Year

Geography 2210
One of: Geography 3700 or Geography 3710
Geography 4725
One of: Geography or Archaeology 3000/4000 level (Science)
Geography 4000-level list course
One of: Geography or Archaeology 4000 level (Science)
Elective 3000/4000 level
Lib Ed Requirement course
Lib Ed Requirement course
Lib Ed Requirement course

Note: Courses in bold in Years 1 and 2 of the sample sequence are prerequisite(s) for required courses and should be completed early in your program. Students are advised to review the prerequisites for elective courses within the major and plan accordingly.