



# PROGRAM PLANNING GUIDE

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

**ID:**

## 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](http://www.ulethbridge.ca/ross/academic-calendar)) for complete program information.

**Calendar Year:** 2025/2026 - 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](http://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](http://www.ulethbridge.ca/ross/minors).

#### Am I admissible to this program?

**Admission:** [www.ulethbridge.ca/ross/admissions/undergrad](http://www.ulethbridge.ca/ross/admissions/undergrad)

**Transfer:** [www.ulethbridge.ca/ross/transfer-resources](http://www.ulethbridge.ca/ross/transfer-resources)

#### When/How do I apply to the University?

**Deadlines:** [www.ulethbridge.ca/ross/admissions/undergrad/deadlines](http://www.ulethbridge.ca/ross/admissions/undergrad/deadlines)

**Step-by-Step:** [www.ulethbridge.ca/ross/admissions/step-by-step](http://www.ulethbridge.ca/ross/admissions/step-by-step)

#### Where can I find information on courses?

**Course Catalogue:** [www.ulethbridge.ca/ross/courses](http://www.ulethbridge.ca/ross/courses)

**Registration Guide:** [www.ulethbridge.ca/ross/registration-guide](http://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](http://www.ulethbridge.ca/ross/registration-dates)

#### How can I enhance my program?

**Career Bridge:** [www.ulethbridge.ca/career-bridge](http://www.ulethbridge.ca/career-bridge)

**Co-op Education:** [www.ulethbridge.ca/career-bridge/co-operative-education](http://www.ulethbridge.ca/career-bridge/co-operative-education)

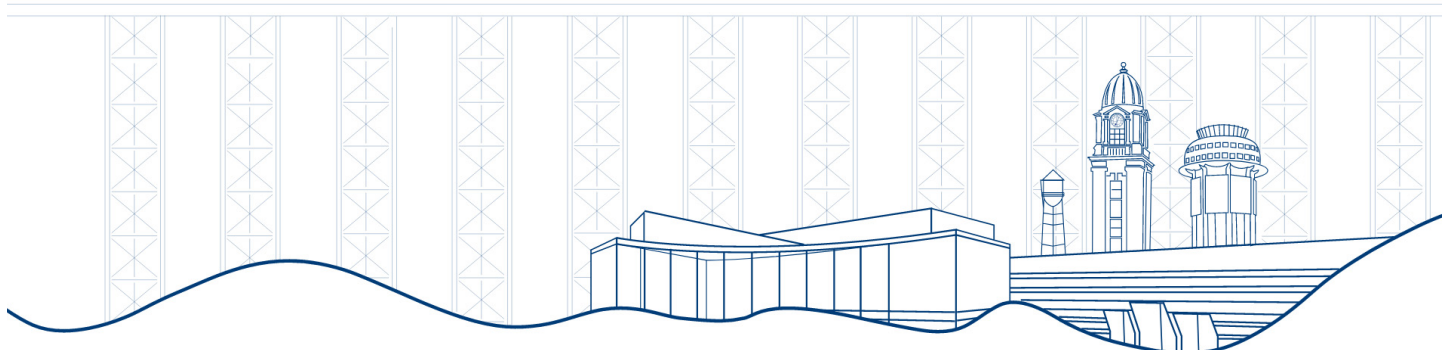
#### What supports are available to students?

**Student Services:** [www.ulethbridge.ca/campus-life/student-services](http://www.ulethbridge.ca/campus-life/student-services)

**Student Success Centre:** [www.ulethbridge.ca/student-success-centre](http://www.ulethbridge.ca/student-success-centre)

**Accessible Learning:** [www.ulethbridge.ca/ross/alc](http://www.ulethbridge.ca/ross/alc)

**Counselling Services:** [www.ulethbridge.ca/counselling](http://www.ulethbridge.ca/counselling)





## 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 ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, GLBU, HLSC, HRLR, IGBM, INHL, 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

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#### 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 2025/2026 University of Lethbridge Calendar, [www.ulethbridge.ca/ross/academic-calendar](http://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.



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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
- Geography 4725
- Geography 4000-level list course
- One of: Geography 3700 or Geography 3710
- One of: Geography or Archaeology 3000/4000 level (Science)
- 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.