



PROGRAM PLANNING GUIDE

Name: _____

ID:

Bachelor of Science

Geography



Geography deals with the diverse landscapes around us. The primary focus of the program is to give you the skills necessary to analyze the organization and interaction of all creatures and ecological processes on the planet — and sometimes beyond it — to address real-world issues. You'll have access to the latest hardware and software available in geography, economics, environment, agriculture, ecology, planning etc, as well as state-of-the-art facilities like the Alberta Water and Environmental Science Building.

What determines my program requirements?

Please refer to the Academic Calendar (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)

Program(s): Bachelor of Science

Major(s): Geography

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

Honours Thesis: www.ulethbridge.ca/ross/undergraduate-thesis

Double Major: www.ulethbridge.ca/ross/double-major

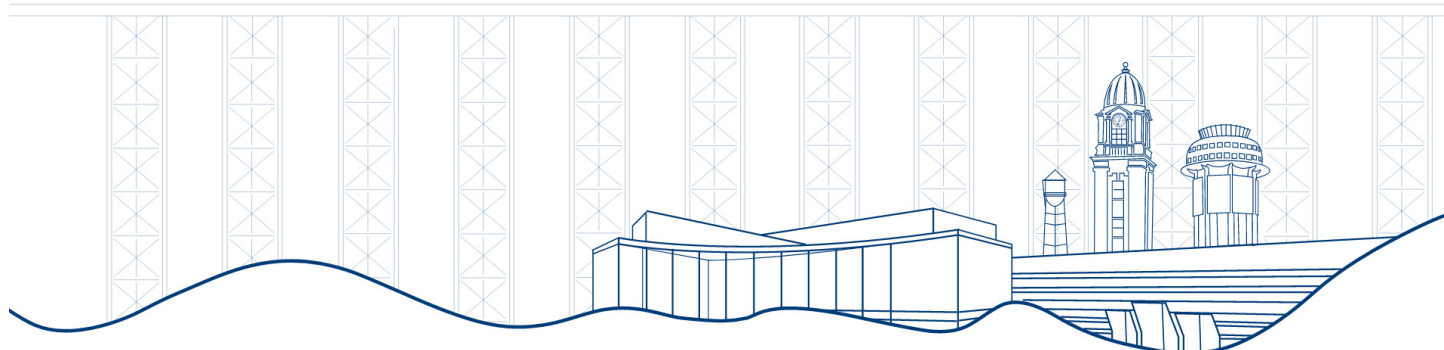
What supports are available to students?

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





PROGRAM REQUIREMENTS (2025/2026)

Required courses and notes

Major Requirements (19 Courses)

- _____ 1. Archaeology 1000 - Introduction to Archaeology
- _____ 2. Environmental Science 2000 - Fundamentals of Environmental Science
- _____ 3. Geography 1000 - Introduction to Physical Geography
- _____ 4. Geography 1200 - Introduction to Human Geography
- _____ 5. Geography 2210 - Spatial Organization of Economic Activity
- _____ 6. Geography 2700 - Geographical Data and Analysis
- _____ 7. Geography 2735 - Introduction to Geographical Information Science
- _____ 8.-10. **Three of (Physical Geography):**
 - _____ Geography 2030 - Geomorphology
 - _____ Geography 2065 - Physical Geology
 - _____ Geography 2090/Biology 2090 - Biogeography
 - _____ Geography 2300 - Weather and Climate
- _____ 11. **One of (Field Course):**
 - _____ Archaeology 3300 - Archaeological Field Work (Series)
 - _____ Archaeology 3700 - Geoarchaeology and Landscape Analysis
 - _____ Geography 3710 - Field Techniques in the Earth Sciences
 - _____ Geography 3780 - Field Research in Geography
 - _____ Geography 4710 - Remote Sensing Field Techniques
- _____ 12. **One of (Spatial Science):**
 - _____ Geography 3700 - Mapping in the Cloud
 - _____ Geography 3720 - Remote Sensing
 - _____ Geography 3740 - Geographical Information Systems
- _____ 13. **One of:**
 - _____ Geography 4700 - Advanced Digital Mapping
 - _____ Geography 4710 - Remote Sensing Field Techniques
 - _____ Geography 4725 - Advanced Remote Sensing
 - _____ Geography 4740 - Advanced Geographical Information Systems
 - _____ Geography 4753 - Seminar in Remote Sensing
 - _____ Remote Sensing 4650 - Physics of Remote Sensing
- _____ 14. **One of:**
 - _____ Geography 4900 - Seminar in Geographic Thought
 - _____ One course (3.0 credit hours) in Geography at the 4000 level with a Science designation
- _____ 15. **One of:**
 - _____ Mathematics 1410 - Elementary Linear Algebra
 - _____ Mathematics 1560 - Calculus I
 - _____ Mathematics 1565 - Accelerated Calculus I
 - _____ Statistics 1770 - Introduction to Probability and Statistics
- _____ 16.-18. Three additional courses (9.0 credit hours) in Geography at the 3000 or 4000 level with a Science designation
 - _____ 16. _____
 - _____ 17. _____
 - _____ 18. _____
- _____ 19. One course (3.0 credit hours) in Geography at the 3000 or 4000 level with a Social Science designation
 - _____ _____

Notes

To determine if a given course in Geography has a Social Science or Science designation, see **School of Liberal Education** in the 2025/2026 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar.

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Electives (21 Courses)

- _____ 20.-40. Twenty-one additional courses (63.0 credit hours) chosen to complete program requirements
 - _____ 20. _____
 - _____ 21. _____
 - _____ 22. _____
 - _____ 23. _____
 - _____ 24. _____
 - _____ 25. _____
 - _____ 26. _____
 - _____ 27. _____
 - _____ 28. _____
 - _____ 29. _____
 - _____ 30. _____
 - _____ 31. _____
 - _____ 32. _____
 - _____ 33. _____
 - _____ 34. _____
 - _____ 35. _____
 - _____ 36. _____
 - _____ 37. _____
 - _____ 38. _____
 - _____ 39. _____
 - _____ 40. _____

Optional Concentration: Geographical Information Science

Courses taken to complete the concentration will fill in as electives in the program requirements above.

For information about the Geographical Information Science concentration, see **Faculty of Arts and Science** in the 2025/2026 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar.

1.-5. Required Courses

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____



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Liberal Education List Requirement

Only four courses (12.0 credit hours) in total may be counted from any one discipline toward the Lib Ed Requirement. Disciplines are identified by separate course subject codes. Cross-listed courses count toward the limit for both disciplines (e.g. IGBM 3250/INDG 3250 counts toward the limit for Dhillon School of Business courses and Indigenous Studies).

Only four courses (12.0 credit hours) in total from the Faculty of Education (EDUC), Faculty of Health Sciences (ADCS, HLSC, INHL, NURS, PUBH, and TREC), and the Dhillon School of Business (ACCT, AGEM, FINC, GLBU, HRLR, IGBM, MGT, and MKTG) may be counted towards the Lib Ed Requirement.

To determine if a course has a Liberal Education designation, see School of Liberal Education in the 2025/2026 University of Lethbridge Undergraduate Calendar, www.ulethbridge.ca/ross/academic-calendar.

_____ **1.-4. List I: Fine Arts and Humanities**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____

_____ **5.-8. List II: Social Science**

- _____ 5. _____
- _____ 6. _____
- _____ 7. _____
- _____ 8. _____

_____ **9.-12. List III: Science**

- _____ 9. _____
- _____ 10. _____
- _____ 11. _____
- _____ 12. _____

General Requirements

_____ A minimum of 40 courses (120.0 credit hours) with a GPA of at least 2.00.

_____ A maximum of five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.

_____ A maximum of five Disciplinary Credit Applied Studies courses (15.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.

_____ A maximum of 24 courses (72.0 credit hours) may be completed from any one discipline for credit towards the degree. Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).

_____ A maximum of 6.0 credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).

_____ A maximum of six courses (18.0 credit hours) from disciplines offered outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree (i.e. labelled ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, GLBU, HLSC, HRLR, IGBM, INHL, MGT, MKTG, NURS, PUBH, and TREC). Courses cross-listed between the Faculty of Arts and Science and another Faculty or School do not count towards this limit.

_____ Residence requirement: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level. At least half of the courses required in the major must be completed at the University of Lethbridge.

A **maximum** of 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.

_____ **1.-12. Introductory Course Limit**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____
- _____ 6. _____
- _____ 7. _____
- _____ 8. _____
- _____ 9. _____
- _____ 10. _____
- _____ 11. _____
- _____ 12. _____

A **minimum** of 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE). Out-of-faculty courses (i.e. labelled ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, GLBU, HLSC, HRLR, IGBM, INHL, MGT, MKTG, NURS, PUBH, and TREC) will not meet this requirement.

_____ **1.-15. Senior Course Requirement**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____
- _____ 6. _____
- _____ 7. _____
- _____ 8. _____
- _____ 9. _____
- _____ 10. _____
- _____ 11. _____
- _____ 12. _____
- _____ 13. _____
- _____ 14. _____
- _____ 15. _____

Optional Minor: _____

For information about minors see **Minors** in the 2025/2026 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar. Consult with an Academic Advisor if you wish to add a minor to your program.

_____ **1.-6. Required Courses**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____
- _____ 6. _____



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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

- Archaeology 1000
- Geography 1000**
- Geography 1200**
- Physical Geography course
- Required Mathematics or Statistics course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Elective

Second Year

- Environmental Science 2000
- Geography 2210
- Geography 2700
- Geography 2735
- Physical Geography course
- Physical Geography course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Elective
- Elective

Third Year

- Field course
- Spatial Science course
- Science Geography 3000/4000 level
- Science Geography 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective
- Elective
- Elective

Fourth Year

- One of: Geography 4900 or Geography 4000 level
- Geography 4000-level list course
- Science Geography 3000/4000 level
- Social Science Geography 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective
- Elective

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.

Additional requirements for the Concentration in Geographical Information Science should be taken in place of Elective courses.

Students considering entry to a graduate program in Geography are advised to complete Geography 4900. They should also complete a 4000-level Independent Study course in Geography in their final year.