

University of  
Lethbridge



## Program Planning Guide

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

ID: \_\_\_\_\_

Calendar Year: 2021/2022

**Major in Geography:**

[www.uleth.ca/artsci/geography](http://www.uleth.ca/artsci/geography)

**Academic Calendar:**

[www.uleth.ca/ross/academic-calendar](http://www.uleth.ca/ross/academic-calendar)

**High School Admission Requirements:**

[www.uleth.ca/ross/admissions/undergrad/high-school](http://www.uleth.ca/ross/admissions/undergrad/high-school)

**Current and Past Program Planning Guides:**

[www.uleth.ca/ross/ppgs](http://www.uleth.ca/ross/ppgs)

**Co-operative Education:**

[www.uleth.ca/career-bridge/co-operative-education](http://www.uleth.ca/career-bridge/co-operative-education)

**Faculty of Arts and Science Advising:**

[www.uleth.ca/artsci/advising](http://www.uleth.ca/artsci/advising)  
[artsci.advising@uleth.ca](mailto:artsci.advising@uleth.ca)  
403-329-5106  
M2102

**Faculty of Education Advising:**

[www.uleth.ca/education/student-advising](http://www.uleth.ca/education/student-advising)  
[edu.sps@uleth.ca](mailto:edu.sps@uleth.ca)  
403-329-2254  
TH421

Geography/Science Education

Bachelor of Science/Bachelor of Education

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 the accuracy of their own programs. The guide should be used in conjunction with the University of Lethbridge Calendar, which is the final authority on all questions regarding program requirements and academic regulations.

Contact an Academic Advisor ([www.uleth.ca/ross/academic-advising](http://www.uleth.ca/ross/academic-advising)) for advising information.

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

**ID :** \_\_\_\_\_

**Program Requirements**

Completion of at least 30 courses (90.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education with a grade point average of at least 2.00.

Completion of the equivalent of 20 courses (60.0 credit hours) in Education with a program grade point average of at least 2.50 in Education courses and the appropriate major.

**Major Requirements (16 Courses)**

- \_\_\_\_\_ Biology 1020 - Diversity of Life
- \_\_\_\_\_ Chemistry 1000 - General Chemistry I
- \_\_\_\_\_ Geography 1000 - Introduction to Physical Geography
- \_\_\_\_\_ Geography 2030 - Geomorphology
- \_\_\_\_\_ Geography 2300 - Weather and Climate
- \_\_\_\_\_ Geography 2700 - Geographical Data and Analysis
- \_\_\_\_\_ Geography 2735 - Introduction to Geographical Information Science

**One of:**

- \_\_\_\_\_ Mathematics 1560 - Calculus I
- \_\_\_\_\_ Mathematics 1565 - Accelerated Calculus I

**One of:**

- \_\_\_\_\_ Physics 1000 - Introduction to Physics I
- \_\_\_\_\_ Physics 1050 - Introduction to Biophysics

**One of:**

- \_\_\_\_\_ Geography 2090 - Biogeography
- \_\_\_\_\_ Geology 2060 - Physical Geology

**One of:**

- \_\_\_\_\_ Geography 3710 - Field Techniques in the Earth Sciences
- \_\_\_\_\_ Geography 3720 - Remote Sensing
- \_\_\_\_\_ Geography 3740 - Geographical Information Systems

**Two of:**

- \_\_\_\_\_ Geography 3035 - Fluvial Geomorphology
- \_\_\_\_\_ Geography 3060 - Glaciology and Glacial Geomorphology
- \_\_\_\_\_ Geography 3080 - Soils
- \_\_\_\_\_ Geography 3300 - Microclimatology
- \_\_\_\_\_ Geography 3400 - Hydrology

**One of:**

- \_\_\_\_\_ Geography 4065 - Irrigation Science
- \_\_\_\_\_ Geography 4400 - Advanced Hydrology
- \_\_\_\_\_ Geography 4415 - Integrated Watershed Management
- \_\_\_\_\_ Geography 4725 - Advanced Remote Sensing

\_\_\_\_\_ Two additional lab-based courses (6.0 credit hours) in Biology, Chemistry, or Physics

1. \_\_\_\_\_
2. \_\_\_\_\_

**Recommended courses:**

- Biology 1010 - Cellular Basis of Life
- Environmental Science 2000 - Fundamentals of Environmental Science

**Other Courses (minimum 14 courses)**

Courses offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education only (no courses labelled ABHL, ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, HLSC, HRLR, IGBM, IMGT, MGT, MKTG, NURS, PUBH, or TREC unless cross-listed with a course from one of the above faculties)

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7. \_\_\_\_\_
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10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_

**Education Requirements (20-course equivalent)**

- \_\_\_\_\_ Education 2500 - Orientation to Teaching
- \_\_\_\_\_ Professional Semester I (15.0 credit hours)
- \_\_\_\_\_ Professional Semester II (15.0 credit hours)
- \_\_\_\_\_ Professional Semester III (15.0 credit hours)

\_\_\_\_\_ Education Foundation: \_\_\_\_\_

\_\_\_\_\_ Three Education Electives:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Completion of the Liberal Education List Requirement (Lib Ed 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.

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

See the 2021/2022 Calendar, p. 79, for more information.

\_\_\_\_\_ Four Fine Arts and Humanities courses:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

\_\_\_\_\_ Four Social Science courses:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

\_\_\_\_\_ Four Science courses:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

**Maximum** of 10 courses (30.0 credit hours) may be completed at the 1000 level (or lower) [0500 - 1999] for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.

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9. \_\_\_\_\_
10. \_\_\_\_\_

\_\_\_\_\_ **Education Minor (Optional):** \_\_\_\_\_  
See the 2021/2022 Calendar, p. 155, for more information.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
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5. \_\_\_\_\_
6. \_\_\_\_\_

*(Education methods requirement)*

**Minimum** of 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or the School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE). Out-of-faculty courses (i.e. labelled ABHL, ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, HLSC, HRLR, IGBM, IMGT, MGT, MKTG, NURS, PUBH, and TREC) will not meet this requirement.

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10. \_\_\_\_\_

\_\_\_\_\_ Not more than three Independent Study courses (9.0 credit hours) may be completed for credit towards the degree.

\_\_\_\_\_ Not more than three Disciplinary Credit Applied Studies courses (9.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.

\_\_\_\_\_ \*Not more than 17 courses (51.0 credit hours) may be completed from any one discipline for credit towards the degree.

\_\_\_\_\_ Not more than six 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).

\_\_\_\_\_ Residence requirement:

**Degree:** Arts and Science

at least 15 courses (45.0 credit hours) offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education must be completed at the University of Lethbridge.

Education

at least 15 courses (45.0 credit hours) offered by the Faculty of Education must be completed at the University of Lethbridge.

**Major:** at least half of the courses required in the major must be completed at the University of Lethbridge.

*\*Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).*

\_\_\_\_\_ **Education Specialization (Optional):** \_\_\_\_\_  
See the 2021/2022 Calendar, p. 161, for more information.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

*(Specialization Internship)*

## Sample Sequencing Plan

Shown below is a sample sequence of courses for your degree. Consult timetables for course offerings, prerequisites, and corequisites before registering each term. This is just one example of how you could complete your major and degree requirements; you may find that a different sequence works as well as this one.

### Year 1, Fall

Geography 1000  
Chemistry 1000  
Mathematics 1560 or  
Mathematics 1565  
Lib Ed Requirement course  
Lib Ed Requirement course

### Year 2, Fall

Education 2500<sup>1</sup>  
Geography 2030  
Geography 2735  
Additional lab-based Biology,  
Chemistry, or Physics course  
Lib Ed Requirement course

### Year 3, Fall

Professional Semester I

### Year 4, Fall

One of: Geography 3710,  
Geography 3720, or  
Geography 3740  
Geography 3000-level list course  
Geography 4000-level list course  
Elective 3000/4000 level  
Elective 3000/4000 level

### Year 5, Fall

Professional Semester III

### Year 1, Spring

Biology 1020  
Geography 2300  
Physics 1000 or Physics 1050  
Lib Ed Requirement course  
Lib Ed Requirement course

### Year 2, Spring

Geography 2700  
One of: Geography 2090<sup>2</sup> or  
Geology 2060  
Additional lab-based Biology,  
Chemistry, or Physics course  
(*Biology 1010 recommended*)  
Lib Ed Requirement course  
Lib Ed Requirement course

### Year 3, Spring

Geography 3000-level list course  
Environmental Science 2000  
(*recommended*)  
Elective 3000/4000 level  
Elective 3000/4000 level  
Lib Ed Requirement course 3000/  
4000 level

### Year 4, Spring

Professional Semester II

### Year 5, Spring

Education Foundation course  
Education elective  
Education elective  
Education elective  
Elective 3000/4000 level

**Elementary Education and Inclusive Education students will reverse the fall and spring terms in Year 5 and complete PS III in the spring.**

<sup>1</sup> Education 2500 must be completed (with a Pass Recommend) before admission. It may be taken in the spring or summer term immediately prior to the fall intake.

<sup>2</sup> Term of offering may vary.

**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.

## Faculty of Education Admission

To be considered for admission to the Faculty of Education, successful completion of the following is required:

- \_\_\_\_\_ 14 graded term courses (42.0 credit hours).
- \_\_\_\_\_ **Education Admission GPA:** Minimum cumulative grade point average of 2.50 on all U of L and transferable courses taken within the terms containing the last 14 courses (42.0 credit hours). All courses must be graded.
- \_\_\_\_\_ Minimum of five courses (15.0 credit hours) in the major.
- \_\_\_\_\_ **Major GPA:** Minimum cumulative grade point average of 2.50 on all graded courses comprising the major, including all transferable courses.
- \_\_\_\_\_ Credit in Education 2500 - Orientation to Teaching (or equivalent) prior to the fall program intake, including a favourable recommendation from the instructor.

Students are advised to contact Student Program Services in the Faculty of Education (TH421; tel. 403-329-2254) for guidelines regarding the requirements stated above. For specific information on admission requirements, please refer to the Combined Degrees section of the Academic Calendar:

[www.uleth.ca/ross/academic-calendar/cal\\_doc.pdf](http://www.uleth.ca/ross/academic-calendar/cal_doc.pdf)

Students of Indigenous descent, and students with a significant shift in academic performance, are advised to refer to the current Calendar for the Faculty of Education's Special Case Admission policies.

### Combined Degrees Program:

Students begin this program in the Faculty of Arts and Science where they progress toward completion of Arts and Science degree requirements, and prepare to meet the admission requirements for the Faculty of Education. Please note that completion of admission requirements does not guarantee admission to the Faculty of Education.

### Application and Document deadlines:

[www.uleth.ca/ross/admissions/undergrad/deadlines](http://www.uleth.ca/ross/admissions/undergrad/deadlines)

