



PROGRAM PLANNING GUIDE

Name: _____

ID:

Bachelor of Science / Bachelor of Education

Geography / Science Education



As an Education major, a student develops a strong knowledge base in the subject area they intend to teach. They also receive in-depth preparation in how to teach, including both general and subject area instructional methods.

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.

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) and Faculty of Education (www.ulethbridge.ca/education)

Program(s): Bachelor of Science / Bachelor of Education

Major(s): Geography / Science Education

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

Education Specializations:

www.ulethbridge.ca/education/programs-degrees/undergraduate-studies/specializations

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

Name: _____

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Students begin in the Faculty of Arts and Science where they progress toward completion of Faculty 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.

Major Requirements (16 Courses)

- _____ 1. Biology 1020 - Diversity of Life
- _____ 2. Chemistry 1000 - General Chemistry I
- _____ 3. Geography 1000 - Introduction to Physical Geography
- _____ 4. Geography 2030 - Geomorphology
- _____ 5. Geography 2300 - Weather and Climate
- _____ 6. Geography 2700 - Geographical Data and Analysis
- _____ 7. Geography 2735 - Introduction to Geographical Information Science

- _____ 8. **One of:**
 - _____ Mathematics 1560 - Calculus I
 - _____ Mathematics 1565 - Accelerated Calculus I

- _____ 9. **One of:**
 - _____ Physics 1000 - Introduction to Physics I
 - _____ Physics 1050 - Introduction to Biophysics

- _____ 10. **One of:**
 - _____ Geography 2065 - Physical Geology
 - _____ Geography 2090/Biology 2090 - Biogeography

- _____ 11. **One of:**
 - _____ Geography 3710 - Field Techniques in the Earth Sciences
 - _____ Geography 3720 - Remote Sensing
 - _____ Geography 3740 - Geographical Information Systems

- _____ 12.-13. **Two of:**
 - _____ Geography 3060 - Glaciology and Glacial Geomorphology
 - _____ Geography 3080 - Soils
 - _____ Geography 3300 - Microclimatology
 - _____ Geography 3400 - Hydrology

- _____ 14. **One of:**
 - _____ Geography 4065 - Irrigation Science
 - _____ Geography 4400 - Advanced Hydrology
 - _____ Geography 4725 - Advanced Remote Sensing

- _____ 15.-16. Two additional lab-based courses (6.0 credit hours) in Biology, Chemistry, or Physics
 - _____ 15. _____
 - _____ 16. _____

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 ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, GLBU, HLSC, HRLR, IGBM, INHL, MGT, MKTG, NURS, PUBH, or TREC unless cross-listed with a course from one of the above faculties).

- _____ 17.-30. Fourteen additional courses (42.0 credit hours) chosen to complete program requirements
 - _____ 17. _____
 - _____ 18. _____
 - _____ 19. _____
 - _____ 20. _____
 - _____ 21. _____
 - _____ 22. _____
 - _____ 23. _____
 - _____ 24. _____
 - _____ 25. _____
 - _____ 26. _____
 - _____ 27. _____
 - _____ 28. _____
 - _____ 29. _____
 - _____ 30. _____

Education Requirements (20-course equivalent)

- _____ 31. Education 2500 - Orientation to Teaching (3.0 credit hours)
- _____ 32.-36. Professional Semester I (15.0 credit hours)
- _____ 37.-41. Professional Semester II (15.0 credit hours)
- _____ 42.-46. Professional Semester III (15.0 credit hours)
- _____ 47. Education Foundation (3.0 credit hours) at the 43xx level
 - _____ _____

- _____ 48.-50. Three Education Electives (9.0 credit hours) at the 3000 or 4000 level
 - _____ 48. _____
 - _____ 49. _____
 - _____ 50. _____

Recommended courses:

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



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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

Bachelor of Arts or Bachelor of Science

_____ A minimum of 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 GPA of at least 2.00 (on the University of Lethbridge 4.0 scale).

_____ A maximum of three Independent Study courses (9.0 credit hours) may be completed for credit toward the degree.

_____ A maximum of 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. For Art majors, Museum Studies Internship courses (Museum Studies 4000, 4001, and 4002) are included in this limit.

_____ A maximum of 17 courses (51.0 credit hours) may be completed from any one discipline (see **Faculty of Arts and Science** in the 2025/2026 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar). 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).

_____ Residence requirement: a minimum of 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. At least half of the courses required in the major must be completed at the University of Lethbridge.

A **maximum** of 10 courses (30.0 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.-10. Introductory Course Limit**

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

A **minimum** of 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, 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.-10. Senior Course Requirement**

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

Bachelor of Education

_____ Completion of the equivalent of 20 courses (60.0 credit hours) in Education

_____ Maintenance of a program grade point average of at least 2.50 in Education courses and the appropriate major.

_____ Residence requirement: a minimum of 15 courses (45.0 credit hours) offered by the Faculty of Education must be completed at the University of Lethbridge.

Optional Education Minor: _____

For information about Education Minors, see **Minors for Education Programs**, www.ulethbridge.ca/ross/minors.

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. _____ (Education methods req.)



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

- Biology 1020
- Chemistry 1000
- Geography 1000**
- Geography 2735
- One of: Mathematics 1560 or Mathematics 1565
- One of: Physics 1000 or Physics 1050
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course

Second Year

- Geography 2030
- One of: Geography 2065 or Geography 2090/Biology 2090
- Geography 2300
- Geography 2700
- Lab-based Biology, Chemistry, or Physics course
- Lab-based Biology, Chemistry, or Physics course (Biology 1010 recommended)
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Education 2500

Admission to the Faculty of Education

Education 2500 must be completed (with a Pass Recommend) before admission. It may be taken in the winter or summer term immediately prior to the fall intake

Third Year (Fall)

- Professional Semester I (15.0 credit hours)
- Curriculum and Instruction, Educational Psychology, Language in Education, Assessment and Learning, Teaching Seminar, Indigenous Education*
- Practicum - Equivalent to 125 hours in a school*

Third Year (Winter)

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

Fourth Year (Fall)

- Geography 3000-level list course
- Geography 3000-level list course
- Geography 4000-level list course
- Elective 3000/4000 level
- Elective 3000/4000 level

Fourth Year (Winter)

- Professional Semester II (15.0 credit hours)
- Principles of Curriculum and Instruction for Majors, The Educational Psychology of Exceptional Learners, Social Context of Schooling, Evaluation and Reporting*
- Practicum - Equivalent to 150 hours in a school*

Elementary Education students will reverse the Fifth Year fall and winter terms and complete PS III in the winter.

Fifth Year (Fall)

- Professional Semester III (15.0 credit hours)
- Internship - Students are assigned to schools for approximately 200 hours in a practicum and assume full responsibility for a classroom for approximately one-half of that time*

Fifth Year (Winter)

- Education Foundation course (43xx)
- Education elective 3000/4000 level
- Education elective 3000/4000 level
- Education elective 3000/4000 level
- Elective 3000/4000 level

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 (edu.sps@uleth.ca; 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.ulethbridge.ca/ross/academic-calendar.

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.