



PROGRAM PLANNING GUIDE

ID:

Name: _____

Bachelor of Science / Bachelor of Education

General Major in the Sciences / Mathematics 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.

A general major in the sciences, unlike a single discipline major, allows you to customize your course selection to your interests and abilities. Where you compromise depth of focus in one area, you gain breadth of knowledge in a few key areas, thus increasing your flexibility.

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

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

Major(s): General Major in the Sciences / Mathematics 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

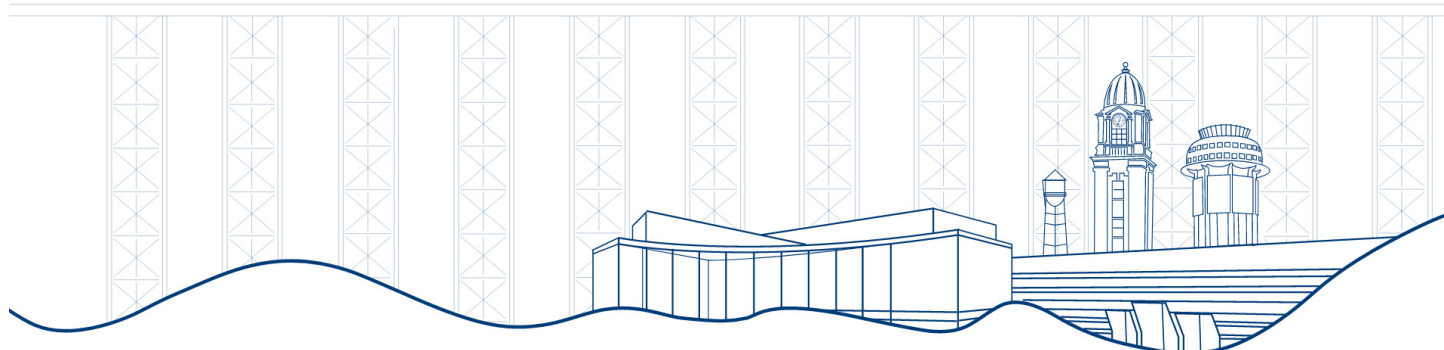
What supports are available to students?

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





Required courses and notes

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)

Choose disciplinary streams from the following list:

- Archaeology - all courses designated Science
- Biological Sciences - all Biology courses
- Chemistry - all courses (including courses in Biochemistry)
- Computer Science - all courses
- Geography - all courses designated Science
- Kinesiology - all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)
- Neuroscience - all courses
- Physics - all courses (including courses in Astronomy and Engineering; students must complete at least one course in Physics)
- Psychology - all courses designated Science

_____ **1.-7. First Disciplinary Stream: Mathematics or Statistics (Required)**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____
- _____ 6. _____
- _____ 7. _____

_____ **8.-11. Second Disciplinary Stream:** _____

- _____ 8. _____
- _____ 9. _____
- _____ 10. _____
- _____ 11. _____

_____ **12.-15. Third Disciplinary Stream:** _____

- _____ 12. _____
- _____ 13. _____
- _____ 14. _____
- _____ 15. _____

_____ **16. One of (Science in Human Affairs):**

- _____ Biochemistry 2300 - Elements of Human Nutrition
- _____ Biology 2500 - Biology and Society
- _____ Environmental Science 2000 - Fundamentals of Environmental Science
- _____ Philosophy 2233 - Philosophy and the World View of Science: Earth and Life Sciences
- _____ Philosophy 2234 - Philosophy and the World View of Science: Space, Time and Matter
- _____ Philosophy 3402 - Biomedical Ethics
- _____ Physics 2020 - The Physics of Everyday Life

_____ **REQ.** Of the 16 courses (48.0 credit hours) required in the major, six courses (18.0 credit hours) must be at the 3000/4000 level

Notes

Some of the Science in Human Affairs courses have prerequisites which may or may not be included in the major.

Students are strongly encouraged to choose Science disciplines which are school subject areas or are taught in the provincial curriculum.

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).

_____ **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. _____



Required courses and notes

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 (ABHL, ADCS, HLSC, NURS, PUBH, and TREC), and the Dhillon School of Business (ACCT, AGEM, FINC, HRLR, IGBM, IMG T, 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 2024/2025 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.
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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.
A maximum of 17 courses (51.0 credit hours) may be completed from any one discipline (see Faculty of Arts and Science in the 2024/2025 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.
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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 ABHL, ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, HLSC, HRLR, IGBM, IMG T, MGT, MKTG, NURS, PUBH, and TREC) will not meet this requirement.

1.-10. Senior Course Requirement

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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.)



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

- One of: Mathematics 1560 or Mathematics 1565
- One of: Mathematics 2560 or Mathematics 2565
- Second stream course
- Second stream course
- Third stream course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course
- Lib Ed Requirement course

Second Year

- Mathematics 1410
- Mathematics 2000
- Statistics 1770
- Second stream course
- Third stream course
- Third stream course 3000/4000 level
- 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)

- Mathematics/Statistics 3000 level
- Second stream course 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective

Fourth Year (Fall)

- Mathematics/Statistics 3000/4000 level
- Third stream course 3000/4000 level
- Science in Human Affairs course
- Mathematics/Statistics 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

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 eight courses (24.0 credit hours) in the 16-course General Major, including at least four courses (12.0 credit hours) in the first disciplinary stream.
- **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.