

University of
Lethbridge



Program Planning Guide

Program: Bachelor of Science/Bachelor of Education (B.Sc./B.Ed.)

Major (Arts and Science): General Major in the Sciences

Major (Education): Mathematics Education

Calendar Year: 2020/2021

Name: _____

ID: _____

Academic Calendar:

www.uleth.ca/ross/academic-calendar

High School Admission Requirements:

www.uleth.ca/ross/admissions/undergrad/high-school

Faculty of Education Admission Requirements:

[www.uleth.ca/education/programs-degrees/
undergraduate-studies/admission](http://www.uleth.ca/education/programs-degrees/undergraduate-studies/admission)

Current and Past Program Planning Guides:

www.uleth.ca/ross/ppgs

Faculty of Arts and Science Advising:

www.uleth.ca/artsci/advising
artsci.advising@uleth.ca
403-329-5106
M2102

Faculty of Education Advising:

www.uleth.ca/education/student-advising
edu.sps@uleth.ca
403-329-2254
TH421

**General Major in the Sciences/
Mathematics 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 in the Faculty of Arts and Science or Faculty of Education for advising information.

Name : _____

ID : _____

B.Sc./B.Ed. (General Major in the Sciences/Mathematics Education)

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)

Seven courses in Mathematics or Statistics

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

Second Disciplinary Stream (chosen from the disciplinary streams at right)

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

Third Disciplinary Stream (chosen from the disciplinary streams at right)

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

Additional Course

16. Science in Human Affairs course from the following list:

_____ Biochemistry 2300 - Elements of Human Nutrition

_____ 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

_____ **Six courses of the 16 required for the major must be at the 3000/4000 level**

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, ADCS, CDEV, CRED, EDUC, HLSC, MGT, NURS, PUBH, or TREC unless cross-listed with a course from one of the above faculties)

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

For a General Major in the Sciences/Mathematics Education, choose two disciplinary streams from the following list:

- Archaeology - all courses designated Science
- Biological Sciences - all Biology courses
- Chemistry - all courses (includes courses in Biochemistry)
- Computer Science - all courses
- Geography - all courses designated Science (includes courses in Geology)
- Kinesiology - all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)
- Neuroscience - all courses
- Physics - all courses (includes courses in Astronomy and Engineering)
- Psychology - all courses designated Science

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. _____ 3. _____
 2. _____

Notes

To determine if a given course in a disciplinary stream has a Science designation, See List III: Science Courses in the 2020/2021 University of Lethbridge Calendar, School of Liberal Education for complete information.

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.

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. Out-of-faculty courses (i.e. labelled ABHL, ADCS, CDEV, CRED, HLSC, MGT, NURS, PUBH, and TREC) will not meet this requirement. See the 2020/2021 Calendar, p. 71, for more information.

LIST I: Fine Arts and Humanities Courses

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

LIST II: Social Science Courses

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

LIST III: Science Courses

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

Not more than 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.

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

Completion of at least 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, ADCS, CDEV, CRED, EDUC, HLSC, MGT, NURS, PUBH, and TREC) will not meet this requirement.

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

____ 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.

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

____ 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.

Education Minor (If Applicable): _____

See the 2020/2021 Calendar, p. 132, for eligible minors.

- 1. _____ 4. _____
 - 2. _____ 5. _____
 - 3. _____ 6. _____
- EDUC (methods requirement)

Education Specialization (If Applicable): _____

See the 2020/2021 Calendar, p. 136, for details.

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

Please refer to page 4 of this guide for Faculty of Education admission requirements.

Sample Sequencing Plan

Shown below is a sample sequence of courses for your degree. If you follow this plan, you should be able to graduate in five years, provided you complete five courses per 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.

<p>Year 1, Fall Mathematics 1560 or Mathematics 1565 Second stream course Third stream course Lib Ed Requirement course Lib Ed Requirement course</p> <p>Year 2, Fall Education 2500² Mathematics 1410 Statistics 1770 Third stream course Lib Ed Requirement course</p> <p>Year 3, Fall Professional Semester I</p> <p>Year 4, Fall Mathematics/Statistics 3000/4000 level Third stream course 3000/4000 level Science in Human Affairs course Elective 3000/4000 level Elective 3000/4000 level</p> <p>Year 5, Fall Professional Semester III</p>	<p>Year 1, Spring Mathematics 2560 or Mathematics 2565 Second stream course Lib Ed Requirement course Lib Ed Requirement course Lib Ed Requirement course</p> <p>Year 2, Spring Mathematics 2000 Second stream course Third stream course 3000/4000 level Lib Ed Requirement course Lib Ed Requirement course</p> <p>Year 3, Spring Mathematics/Statistics 3000 level Second stream course 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level Elective</p> <p>Year 4, Spring Professional Semester II</p> <p>Year 5, Spring Education Foundation course Education elective Education elective Education elective Mathematics/Statistics 3000/4000 level</p>
<p>Elementary Education and Inclusive Education students will reverse the fall and spring terms in Year 5 and complete PS III in the spring.</p>	

¹ 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.

Terms Used

Lib Ed Requirement course: A course that could count toward the Liberal Education List Requirement. You may use courses in your major towards this 12-course requirement. As some courses may not fit specific program requirements, students should consult their Faculty advising office. See the 2020/2021 University of Lethbridge Calendar, School of Liberal Education for complete information.

The School of Liberal Education offers Liberal Education 1000 and 2000, specifically designed to introduce first-year students to the wide scope of human knowledge and teach essential university success skills, critical thinking, and integrative thinking (see the 2020/2021 University of Lethbridge Calendar, Course Catalogue). LBED 1000 and 2000 may be used toward satisfying the Lib Ed Requirement.

Elective: A course that you may choose freely from all those available and applicable to your program. Use courses inside or outside your major, bearing in mind any restrictions that may apply (e.g., a maximum of 17 courses from any one discipline).

Faculty of Education Admission

Admission to the Faculty of Education requires successful completion of the following:

- _____ 14 graded term courses (42.0 credit hours).
- _____ 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.
- _____ 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

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.

Application and Document deadlines:

www.uleth.ca/ross/admissions/undergrad/deadlines

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.**

