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: 2019/2020
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

Faculty of Arts and Science Advising:  
www.uleth.ca/arts/sci/advising 
arts.scadvising@uleth.ca 
403-329-5106 
M2102

Faculty of Education Advising:  
www.uleth.ca/education/student-advising 
edu.sps@uleth.ca 
403-329-2254 
TH421

Current and Past Program Planning Guides:  
www.uleth.ca/ross/ppgs

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.
Bachelor of Science/Bachelor of Education

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)**

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15. 
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)

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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 - Practicum I - 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. __________________

**Notes**

To determine if a given course in a disciplinary stream has a Science designation, See List III: Science Courses in the 2019/2020 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 2019/2020 Calendar, p. 83, for more information.

**LIST I: Fine Arts and Humanities Courses**

1. ______________________
2. ______________________
3. ______________________
4. ______________________

**LIST II: Social Science Courses**

1. ______________________
2. ______________________
3. ______________________
4. ______________________

**LIST III: Science Courses**

1. ______________________
2. ______________________
3. ______________________
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. ______________________
2. ______________________
3. ______________________
4. ______________________
5. ______________________
6. ______________________
7. ______________________
8. ______________________
9. ______________________
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. ______________________
2. ______________________
3. ______________________
4. ______________________
5. ______________________
6. ______________________
7. ______________________
8. ______________________
9. ______________________
10. _____________ (min.)

Education Minor (If Applicable):

See the 2019/2020 Calendar, p. 146, for eligible minors.

1. ______________________
2. ______________________
3. ______________________
4. ______________________
5. ______________________

Education Specialization (If Applicable):

See the 2019/2020 Calendar, p. 150, for details.

1. ______________________
2. ______________________
3. ______________________

Residence Requirement:

Degree:

Art 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.

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).

Education Minor (If Applicable):

See the 2019/2020 Calendar, p. 146, for eligible minors.

1. ______________________
2. ______________________
3. ______________________
4. ______________________
5. ______________________

Education Specialization (If Applicable):

See the 2019/2020 Calendar, p. 150, for details.

1. ______________________
2. ______________________
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.

<table>
<thead>
<tr>
<th>Year 1, Fall</th>
<th>Year 1, Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics 1560 or Mathematics 1565</td>
<td>Mathematics 2560 or Mathematics 2565</td>
</tr>
<tr>
<td>Second stream course</td>
<td>Second stream course</td>
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<tr>
<td>Third stream course</td>
<td>Lib Ed Requirement course</td>
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<tr>
<td>Lib Ed Requirement course</td>
<td>Lib Ed Requirement course</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2, Fall</th>
<th>Year 2, Spring</th>
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</thead>
<tbody>
<tr>
<td>Education 2500</td>
<td>Mathematics 2000</td>
</tr>
<tr>
<td>Mathematics 1410</td>
<td>Second stream course</td>
</tr>
<tr>
<td>Statistics 1770</td>
<td>Third stream course 3000/4000 level</td>
</tr>
<tr>
<td>Third stream course</td>
<td>Lib Ed Requirement course</td>
</tr>
<tr>
<td>Lib Ed Requirement course</td>
<td>Lib Ed Requirement course</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3, Fall</th>
<th>Year 3, Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Semester I</td>
<td>Mathematics/Statistics 3000 level</td>
</tr>
<tr>
<td>Second stream course 3000/4000 level</td>
<td>Third stream course 3000/4000 level</td>
</tr>
<tr>
<td>Science in Human Affairs course</td>
<td>Elective 3000/4000 level</td>
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<tr>
<td>Elective 3000/4000 level</td>
<td>Elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4, Fall</th>
<th>Year 4, Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematics/Statistics 3000/4000 level</td>
<td>Professional Semester II</td>
</tr>
<tr>
<td>Third stream course 3000/4000 level</td>
<td>Education Foundation course</td>
</tr>
<tr>
<td>Science in Human Affairs course</td>
<td>Education elective</td>
</tr>
<tr>
<td>Elective 3000/4000 level</td>
<td>Education elective</td>
</tr>
<tr>
<td>Elective</td>
<td>Mathematics/Statistics 3000/4000 level</td>
</tr>
</tbody>
</table>

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 2019/2020 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 2019/2020 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 - Practicum I - Orientation to Teaching (or equivalent) 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 policy.

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.