

University of  
Lethbridge



## Program Planning Guide

**Calendar Year:** 2020/2021

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

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

# Bachelor of Science General Major in the Sciences

**General Major in the Sciences:**

[www.uleth.ca/artsci/general-majors](http://www.uleth.ca/artsci/general-majors)

**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)

**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

**Co-operative Education:**

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

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 for advising information.

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

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

**B.Sc. General Major in the Sciences**

Completion of at least 40 courses (120.0 credit hours) with a grade point average of at least 2.00.

**Major Requirements (20 courses)**

First  
Disciplinary  
Stream { 1. \_\_\_\_\_  
2. \_\_\_\_\_  
3. \_\_\_\_\_  
4. \_\_\_\_\_  
5. \_\_\_\_\_

Second  
Disciplinary  
Stream { 6. \_\_\_\_\_  
7. \_\_\_\_\_  
8. \_\_\_\_\_  
9. \_\_\_\_\_  
10. \_\_\_\_\_

Third  
Disciplinary  
Stream { 11. \_\_\_\_\_  
12. \_\_\_\_\_  
13. \_\_\_\_\_  
14. \_\_\_\_\_  
15. \_\_\_\_\_

Electives  
(chosen from the  
disciplinary  
streams at right) { 16. \_\_\_\_\_  
17. \_\_\_\_\_  
18. \_\_\_\_\_  
19. \_\_\_\_\_

Additional Course 20. 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

\_\_\_\_\_ **Seven courses of the 20 required for the major must be at the 3000/4000 level**

**Other Courses (minimum 20 courses)**

1. \_\_\_\_\_ 11. \_\_\_\_\_  
 2. \_\_\_\_\_ 12. \_\_\_\_\_  
 3. \_\_\_\_\_ 13. \_\_\_\_\_  
 4. \_\_\_\_\_ 14. \_\_\_\_\_  
 5. \_\_\_\_\_ 15. \_\_\_\_\_  
 6. \_\_\_\_\_ 16. \_\_\_\_\_  
 7. \_\_\_\_\_ 17. \_\_\_\_\_  
 8. \_\_\_\_\_ 18. \_\_\_\_\_  
 9. \_\_\_\_\_ 19. \_\_\_\_\_  
 10. \_\_\_\_\_ 20. \_\_\_\_\_

**For a General Major in the Sciences, choose three 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 (including courses in Geology)  
 Kinesiology - all courses designated Science (neither Kinesiology 1160 nor Kinesiology 1161 may be included)  
 Mathematics - all courses (including courses in Statistics)  
 Neuroscience - all courses  
 Physics - all courses (including courses in Astronomy and Engineering)  
 Psychology - all courses designated Science

**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.

See also:

- Bachelor of Science/Bachelor of Education - General Major in the Sciences/Science Education
- Bachelor of Science/Bachelor of Management - General Major in the Sciences

**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 (MGT) may be counted towards the Lib Ed 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 12 courses (36.0 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. \_\_\_\_\_ 7. \_\_\_\_\_
- 2. \_\_\_\_\_ 8. \_\_\_\_\_
- 3. \_\_\_\_\_ 9. \_\_\_\_\_
- 4. \_\_\_\_\_ 10. \_\_\_\_\_
- 5. \_\_\_\_\_ 11. \_\_\_\_\_
- 6. \_\_\_\_\_ 12. \_\_\_\_\_ (max.)

Completion of at least 15 courses (45.0 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. \_\_\_\_\_ 9. \_\_\_\_\_
- 2. \_\_\_\_\_ 10. \_\_\_\_\_
- 3. \_\_\_\_\_ 11. \_\_\_\_\_
- 4. \_\_\_\_\_ 12. \_\_\_\_\_
- 5. \_\_\_\_\_ 13. \_\_\_\_\_
- 6. \_\_\_\_\_ 14. \_\_\_\_\_
- 7. \_\_\_\_\_ 15. \_\_\_\_\_ (min.)
- 8. \_\_\_\_\_

\_\_\_\_ Not more than five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.

\_\_\_\_ Not more than five Disciplinary Credit Applied Studies courses (15.0 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 24 courses (72.0 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).

\_\_\_\_ Not more than six courses (18.0 credit hours) from disciplines outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree (i.e. labelled ABHL, ADCS, CDEV, CRED, EDUC, HLSC, MGT, NURS, PUBH, and TREC). Courses cross-listed between the Faculty of Arts and Science and another Faculty do not count towards this limit.

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

Degree: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 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.

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

**Minor (Optional):** \_\_\_\_\_  
See the 2020/2021 Calendar, p. 267, for more information.

- 1. \_\_\_\_\_ 4. \_\_\_\_\_
- 2. \_\_\_\_\_ 5. \_\_\_\_\_
- 3. \_\_\_\_\_ 6. \_\_\_\_\_

**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 four 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><b>Year 1, Fall</b>                      First Stream course                      Second Stream course                      Lib Ed Requirement course                      Lib Ed Requirement course                      Lib Ed Requirement course</p> <p><b>Year 2, Fall</b>                      First Stream course                      Second Stream course                      Science elective                      Lib Ed Requirement course                      Lib Ed Requirement course</p> <p><b>Year 3, Fall</b>                      First Stream course 3000/4000 level                      Second Stream course 3000/4000 level                      Science elective                      Elective 3000/4000 level                      Elective</p> <p><b>Year 4, Fall</b>                      First Stream course 3000/4000 level                      Third Stream course                      Science elective 3000/4000 level                      Elective 3000/4000 level                      Elective 3000/4000 level</p>	<p><b>Year 1, Spring</b>                      First Stream course                      Second Stream course                      Third Stream course                      Lib Ed Requirement course                      Lib Ed Requirement course</p> <p><b>Year 2, Spring</b>                      Third Stream course                      Science in Human Affairs course                      Lib Ed Requirement course                      Elective                      Elective</p> <p><b>Year 3, Spring</b>                      Third Stream course                      Science elective 3000/4000 level                      Elective 3000/4000 level                      Elective 3000/4000 level                      Elective</p> <p><b>Year 4, Spring</b>                      Second Stream course 3000/4000 level                      Third Stream course 3000/4000 level                      Elective 3000/4000 level                      Elective 3000/4000 level                      Elective 3000/4000 level</p>
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*Note: Students should ensure that prerequisites for senior courses in their chosen disciplinary streams are completed in the first two years. Please consult the current Calendar or Timetable and Registration Guide for prerequisites.*

**Terms Used**

**Lib Ed Requirement course:** A course that could count toward the Liberal Education List Requirement (see below). You may use courses in your major towards this 12-course requirement. 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 which 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 24 courses from any one discipline).

