

University of  
Lethbridge



Faculty of Arts & Science

## Program Planning Guide

**Calendar Year:** 2013/2014

**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)

### Faculty of Arts and Science Student Program Services:

[www.uleth.ca/artsci/advising](http://www.uleth.ca/artsci/advising)  
[artsci.advising@uleth.ca](mailto:artsci.advising@uleth.ca)  
(403) 329-5106  
SU060

### Current and Past Program Planning Guides:

[www.uleth.ca/ross/ppgs](http://www.uleth.ca/ross/ppgs)

### Academic Calendar:

[www.uleth.ca/ross/academic-calendar](http://www.uleth.ca/ross/academic-calendar)

### 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 for advising information.

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

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

**B.A. 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) { 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 (Liberal Education 3600 may be substituted for one of the courses in Archaeology)

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

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 (**Part 4, p. 90**).

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 General Liberal Education Requirement (GLER).**

*Only four courses (12.0 credit hours) in total may be counted from all courses offered by a single department. See the 2013/2014 Calendar, p. 88, 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).

- |          |           |
|----------|-----------|
| 1. _____ | 7. _____  |
| 2. _____ | 8. _____  |
| 3. _____ | 9. _____  |
| 4. _____ | 10. _____ |
| 5. _____ | 11. _____ |
| 6. _____ | 12. _____ |

Completion of at least 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science or the Faculty of Fine Arts at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE).

- |          |           |
|----------|-----------|
| 1. _____ | 9. _____  |
| 2. _____ | 10. _____ |
| 3. _____ | 11. _____ |
| 4. _____ | 12. _____ |
| 5. _____ | 13. _____ |
| 6. _____ | 14. _____ |
| 7. _____ | 15. _____ |
| 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 four Activity courses (i.e. courses labelled PHAC and MUSE; maximum 6.0 credit hours) may be completed for credit towards the degree, except for Kinesiology majors (not more than 10 Activity courses; 15.0 credit hours) and Music majors (not more than 8 Activity courses; 12.0 credit hours).

Not more than four courses (12.0 credit hours) from disciplines offered outside the Faculty of Arts and Science or the Faculty of Fine Arts may be completed for credit towards the degree (i.e. labelled CDEV, CRED, EDUC, HLSC, MGT, NURS, and PUBH). Courses cross-listed between the Faculty of Arts and Science and another Faculty do not count towards this limit.

**Residence requirement:**

**Degree:** at least 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including the last 10 courses (30.0 credit hours) completed for credit towards the degree.

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

**Minor (Optional):** \_\_\_\_\_

*See the 2013/2014 Calendar, p. 143, for eligible minors.*

- |          |          |
|----------|----------|
| 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 semester. 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.

<b>Year 1, Fall</b> First Stream course Second Stream course GLER course GLER course GLER course	<b>Year 1, Spring</b> First Stream course Second Stream course Third Stream course GLER course GLER course
<b>Year 2, Fall</b> First Stream course Second Stream course Science elective GLER course GLER course	<b>Year 2, Spring</b> Third Stream course Science in Human Affairs course GLER course Elective Elective
<b>Year 3, Fall</b> First Stream course 3000/4000 level Second Stream course 3000/4000 level Science elective Elective 3000/4000 level Elective	<b>Year 3, Spring</b> Third Stream course Science elective 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level Elective
<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	<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

**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

**GLER course:** A course that could count toward the General Liberal Education Requirement (see below). You may use courses in your major towards this 12-course requirement. See the 2013/2014 University of Lethbridge Calendar, Part 4 - Academic Regulations (p. 88) for complete information.

The Faculty of Arts and Science 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 2013/2014 University of Lethbridge Calendar, Part 14 - Courses, p. 307). LBED 1000 and 2000 which may be used toward satisfying the GLER.

**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).