

University of  
Lethbridge



## Program Planning Guide

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

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

Calendar Year: 2023/2024

**Major in Environmental Science:**

[www.ulethbridge.ca/artsci/environmental-science](http://www.ulethbridge.ca/artsci/environmental-science)

**Academic Calendar:**

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

**High School Admission Requirements:**

[www.ulethbridge.ca/ross/admissions/undergrad/high-school](http://www.ulethbridge.ca/ross/admissions/undergrad/high-school)

**Current and Past Program Planning Guides:**

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

**Co-operative Education:**

[www.ulethbridge.ca/career-bridge/co-operative-education](http://www.ulethbridge.ca/career-bridge/co-operative-education)

**Faculty of Arts and Science Advising:**

[www.ulethbridge.ca/artsci/advising](http://www.ulethbridge.ca/artsci/advising)  
artsci.advising@uleth.ca  
403-329-5106  
M2102

# Post-Diploma Bachelor of Science Environmental Science

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 ([www.ulethbridge.ca/ross/academic-advising](http://www.ulethbridge.ca/ross/academic-advising)) for advising information.

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

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

**Program Requirements**

Completion of at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education (i.e. no courses labelled ABHL, ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, HLSC, HRLR, IGBM, IMGT, MGT, MKTG, NURS, PUBH, or TREC) with a grade point average of at least 2.00.

**Required core (14 courses)**

- \_\_\_\_\_ Biology 1010 - Cellular Basis of Life
- \_\_\_\_\_ Biology 2000 - Principles of Genetics
- \_\_\_\_\_ Environmental Science 4000 - Selected Studies in Environmental Science II (Series)
- \_\_\_\_\_ Geography 2300 - Weather and Climate
- \_\_\_\_\_ Geography 3740 - Geographical Information Systems

**One of:**

- \_\_\_\_\_ Physics 1050 - Introduction to Biophysics
- \_\_\_\_\_ Statistics 1770 - Introduction to Probability and Statistics

**One of:**

- \_\_\_\_\_ Biology 2150 - Biostatistics
- \_\_\_\_\_ Geography 2700 - Geographical Data and Analysis

**Three of:**

- \_\_\_\_\_ Biology 3300 - Evolution
- \_\_\_\_\_ Biology 3460 - Plant Physiology
- \_\_\_\_\_ Biology 3520 - Invertebrate Zoology
- \_\_\_\_\_ Biology 3530 - Vertebrate Zoology
- \_\_\_\_\_ Biology 3630 - Field Biology
- \_\_\_\_\_ Biology 3660 - Field Botany
- \_\_\_\_\_ Biology 3700 - Ecosystem Ecology
- \_\_\_\_\_ Biology 3710 - Population Biology
- \_\_\_\_\_ Biology 3720 - Community Ecology
- \_\_\_\_\_ Biology 4605 - Conservation Biology
- \_\_\_\_\_ Biology 4700 - Molecular Ecology
- \_\_\_\_\_ Biology 4710 - Evolutionary and Ecological Modelling
- \_\_\_\_\_ Biology 4740 - Behavioural Ecology
- \_\_\_\_\_ Biology 4800 - Biology of Parasitism

\_\_\_\_\_ Two courses (6.0 credit hours) in Geography at the 3000/4000 level, with a Science designation

1. \_\_\_\_\_
2. \_\_\_\_\_

\_\_\_\_\_ Two lab-based courses (6.0 credit hours) in Chemistry at the 1000 level or above (preferably Chemistry 1110 - Chemistry for Life Sciences I and Chemistry 2120 - Chemistry for Life Sciences II)

1. \_\_\_\_\_
2. \_\_\_\_\_

**Electives (six courses):**

\_\_\_\_\_ Three courses (9.0 credit hours) from List I: Fine Arts and Humanities

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

\_\_\_\_\_ One course (3.0 credit hours) from List II: Social Sciences

1. \_\_\_\_\_

\_\_\_\_\_ One course (3.0 credit hours) from List I: Fine Arts and Humanities or List II: Social Sciences

1. \_\_\_\_\_

\_\_\_\_\_ One additional course (3.0 credit hours) at the 3000/4000 level, excluding Activity courses (labeled PHAC and MUSE)

1. \_\_\_\_\_

**Notes**

Courses labeled as “electives” may be used towards a minor if a minor is chosen. Additional courses (apart from the core and elective courses) must be completed if a concentration is declared.

To determine if a given course has a Fine Arts and Humanities, Social Science, or Science designation, see List I: Fine Arts and Humanities Courses, List II: Social Science Courses, and List III: Science Courses (refer to the 2023/2024 University of Lethbridge Calendar, p. 83).

No more than two Independent Study courses (3990 or 4990; 6.0 credit hours) may be counted towards the program.

Students may not take for credit those courses offered by Biological Sciences or Geography that have close equivalents in the college diploma program. These excluded courses include the following: Biology 1020, Biology 2200, Geography 1000, Geography 2065, Geography 2735, and Geography 3080.

\_\_\_\_\_ **Concentration: Geographical Information Science (Optional)**  
See the 2023/2024 Calendar, p. 142, for more information.

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

## Sample Sequencing Plan

Shown below is a sample sequence of courses for your degree. Consult timetables for course offerings, prerequisites, and corequisites before registering each 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.

### **Year 1, Fall**

**Biology 1010**  
**Chemistry 1110**<sup>1</sup>  
 Geography 2300  
 Physics 1050 or Statistics 1770  
 Lib Ed Requirement course

### **Year 2, Fall**

**Biology 2150 or Geography 2700**  
 Geography 3000/4000 level (Science)  
 Geography 3000/4000 level (Science)  
 Geography 3740  
 Lib Ed Requirement course

### **Year 1, Spring**

**Biology 2000**  
 Chemistry 2120<sup>1</sup>  
 Lib Ed Requirement course  
 Lib Ed Requirement course  
 Lib Ed Requirement course

### **Year 2, Spring**

Environmental Science 4000  
 Biology list course  
 Biology list course  
 Biology list course  
 Elective 3000/4000 level

<sup>1</sup> Preferred Chemistry courses.

**Note:** Courses in **bold** in Years 1 and 2 of the sample sequence are prerequisite(s) for required courses and should be completed early in your program. Students are advised to review the prerequisites for elective courses within the major and plan accordingly