

University of
Lethbridge



Program Planning Guide

Departments: Biological Sciences, and Geography and Environment

Calendar Year: 2020/2021

Name: _____

ID: _____

Post-Diploma Bachelor of Science Environmental Science

Major in Environmental Science:

www.uleth.ca/artsci/environmental-science

Academic Calendar:

www.uleth.ca/ross/academic-calendar

Current and Past Program Planning Guides:

www.uleth.ca/ross/ppgs

Co-operative Education:

www.uleth.ca/artsci/coop

Faculty of Arts and Science Advising:

www.uleth.ca/artsci/advising

artsci.advising@uleth.ca

403-329-5106

M2102

Approved Diploma Programs:

www.uleth.ca/postdiploma

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 : _____

Post-Diploma B.Sc. Environmental Science

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, ADCS, CDEV, CRED, EDUC, HLSC, MGT, NURS, PUBH, or TREC) with a grade point average of at least 2.00.

Required core (14 courses):

- _____ 1. Biology 1010 - Cellular Basis of Life
- _____ 2. Biology 2000 - Principles of Genetics
- _____ 3. Environmental Science 4000 - Selected Studies in Environmental Science II (Series)
- _____ 4. Geography 2300 - Weather and Climate
- _____ 6. Geography 3740 - Geographical Information Systems
- _____ 7. **One of:**
 - _____ Physics 1050 - Introduction to Biophysics
 - _____ Statistics 1770 - Introduction to Probability and Statistics
- _____ 8. **One of:**
 - _____ Biology 2150 - Biostatistics
 - _____ Geography 2700 - Geographical Data and Analysis
- _____ 8. **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 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)

- 13. _____
- 14. _____

Electives (six courses):

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

- 15. _____
- 17. _____

- 16. _____

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

- 18. _____

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

- 19. _____

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

- 20. _____

Concentration: Geographical Information Science (Optional)

See the 2020/2021 Calendar, p. 118, for more information.

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

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

- 11. _____
- 12. _____

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 (see the 2020/2021 University of Lethbridge Calendar, **School of Liberal Education, Liberal Education Lists, p. 72**).

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 - Diversity of Life
- Biology 2200 - Principles of Ecology
- Geography 1000 - Introduction to Physical Geography
- Geography 2735 - Introduction to Geographical Information Science
- Geography 3080 - Soils
- Geology 2060 - Physical Geology

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 two 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 Biology 1010 Chemistry 1110¹ Geography 2300 Physics 1050 or Statistics 1770 Lib Ed Requirement course</p>	<p>Year 1, Spring Biology 2000 Biology 2150 or Geography 2700 Chemistry 2120¹ Lib Ed Requirement course Lib Ed Requirement course</p>
<p>Year 2, Fall Biology list course Biology list course Environmental Science 4000 Geography 3740² Lib Ed Requirement course</p>	<p>Year 2, Spring Biology list course Geography or Geology 3000/4000 level (Science) Geography or Geology 3000/4000 level (Science) Lib Ed Requirement course Elective 3000/4000 level</p>

¹ Preferred Chemistry courses.

² Term of offering may vary.

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 electives courses within the major and plan accordingly.

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. See the 2020/2021 University of Lethbridge Calendar, School of Liberal Education for complete information.

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).



www.ulethbridge.ca

artsci.advising@uleth.ca
(403) 329-5106

University of Lethbridge
Registrar's Office
4401 University Drive
Lethbridge, Alberta T1K 3M4

