

University of
Lethbridge



Program Planning Guide

Department: Geography

Calendar Year: 2015/2016

Name: _____

ID: _____

Bachelor of Science
Geography

Major in Geography:

www.uleth.ca/artsci/geography

Academic Calendar:

www.uleth.ca/ross/academic-calendar

High School Prerequisites by Course:

www.uleth.ca/ross/hs_prereqs/course

Current and Past Program Planning Guides:

www.uleth.ca/ross/ppgs

Faculty of Arts and Science Student Program Services:

www.uleth.ca/artsci/advising
artsci.advising@uleth.ca
(403) 329-5106
SU060

Co-operative Education:

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. Geography

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

Major Requirements (23 courses)

- _____ 1. Archaeology 1000 - Introduction to Archaeology
- _____ 2. Biology 1020 - Diversity of Life
- _____ 3. Environmental Science 2000 - Fundamentals of Environmental Science
- _____ 4. Geography 1000 - Introduction to Physical Geography
- _____ 5. Geography 1200 - Introduction to Human Geography
- _____ 6. Geography 2030 - Geomorphology
- _____ 7. Geography 2210 - Spatial Organization of Economic Activity
- _____ 8. Geography 2300 - Weather and Climate
- _____ 9. Geography 2700 - Geographical Data and Analysis
- _____ 10. Geography 2735 - Introduction to Geographical Information Science

- _____ 20. **One of:**
- _____ Geography 4030 - Advanced Physical Geography (Series)
- _____ Geography 4751 - Project in Spatial Modelling
- _____ Geography 4753 - Seminar in Remote Sensing
- _____ Geography 4900 - History and Theory of Geography

- _____ 11. **One of (Field Course):**
- _____ Archaeology 3300 - Archaeological Field Work (Series)
- _____ Geography 3710 - Field Techniques in the Earth Sciences
- _____ Geography 3780 - Field Research in Geography
- _____ Geography 4710 - Remote Sensing Field Techniques

- _____ 21. **One of:**
- _____ Chemistry 1000 - General Chemistry I
- _____ Physics 1000 - Introduction to Physics I

- _____ 12-13. **Two of (Geographical Techniques):**
- _____ Geography 3235 - Quantitative Models for Geographic Analysis
- _____ Geography 3700 - Cartography
- _____ Geography 3720 - Remote Sensing
- _____ Geography 3740 - Geographical Information Systems
- _____ Geography 3750 - GIS Applications in Human Geography
- _____ Geography 4730 - Spatial Statistics

- _____ 22. **One of:**
- _____ Mathematics 1410 - Elementary Linear Algebra
- _____ Mathematics 1560 - Calculus I
- _____ Statistics 1770 - Introduction to Probability and Statistics

- _____ 14-16. **Three of (Physical Geography):**
- _____ Geography 2090 - Biogeography
- _____ Geography 3035 - Fluvial Geomorphology
- _____ Geography 3060 - Glaciology and Glacial Geomorphology
- _____ Geography 3075 - Environmental Resources Management
- _____ Geography 3080 - Soils
- _____ Geography 3300 - Microclimatology
- _____ Geography 3400 - Hydrology I
- _____ Geology 2060 - Physical Geology

One additional course (3.0 credit hours) at the 2000 level or higher from the offerings in Astronomy, Biochemistry, Biology, Chemistry, Computer Science, Engineering, Mathematics, Statistics, or Physics

23. _____

Other Courses (minimum 17 courses)

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____
- 13. _____
- 14. _____
- 15. _____
- 16. _____
- 17. _____

- _____ 17-19. **Three of:**
- _____ Geography 4060 - Agricultural Soil Management
- _____ Geography 4065 - Irrigation Science
- _____ Geography 4400 - Hydrology II
- _____ Geography 4415 - Integrated Watershed Management
- _____ Geography 4700 - Advanced Computer Mapping
- _____ Geography 4725 - Advanced Remote Sensing
- _____ Geography 4740 - Advanced Geographical Information Systems
- _____ Geography 4750 - Glacial Processes, Measurements, and Models

Notes

See also:

- Bachelor of Arts - Geography
- Bachelor of Arts or Bachelor of Science - Archaeology and Geography
- Bachelor of Science/Bachelor of Education - Geography/Science Education
- Bachelor of Science/Bachelor of Management - Geography

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 2015/2016 Calendar, p. 83, 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. _____ (max.) |

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. _____ (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 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 ADCS, 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 2015/2016 Calendar, p. 137, for eligible minors.

- | | |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

Concentration: Geographical Information Science (Optional)

See the 2015/2016 Calendar, p. 124, for more information.

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

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.

<p>Year 1, Fall Geography 1000 Chemistry 1000 or Physics 1000 One of: Mathematics 1410, Mathematics 1560, or Statistics 1770 GLER course GLER course</p>	<p>Year 1, Spring Archaeology 1000 Geography 1200 Biology 1020 GLER course GLER course</p>
<p>Year 2, Fall Environmental Science 2000 Geography 2030 Geography 2210 GLER course Elective</p>	<p>Year 2, Spring Geography 2300 Geography 2700 Geography 2735 Required science course 2000 level¹ Elective</p>
<p>Year 3, Fall Geographical Techniques course Physical Geography course Geography - Field course² Elective 3000/4000 level Elective</p>	<p>Year 3, Spring Geographical Techniques course Physical Geography 3000-level Geography 4000-level list course Elective 3000/4000 level Elective</p>
<p>Year 4, Fall Physical Geography 3000-level Geography 4000-level list course Elective 3000/4000 level Elective 3000/4000 level Elective</p>	<p>Year 4, Spring Geography 4000-level list course Geography 4000-level list course Elective 3000/4000 level Elective 3000/4000 level Elective</p>

¹ Must be chosen from offerings in Astronomy, Biochemistry, Biology, Chemistry, Computer Science, Engineering, Mathematics, Statistics, or Physics.

² Semester of offering may vary.

Note: Additional requirements for the Concentration in Geographical Information Science should be taken in place of Elective courses.

Students considering entry to a graduate program in Geography are advised to complete Geography 4900. They should also complete a 4000-level Independent Study course in Geography in their final year.

Terms Used

GLER course: A course that could count toward the General Liberal Education Requirement. You may use courses in your major towards this 12-course requirement. See the 2015/2016 University of Lethbridge Calendar, Part 4 - Academic Regulations (p. 83) 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 2015/2016 University of Lethbridge Calendar, Part 14 - Courses, p. 301). LBED 1000 and 2000 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).

