University of Lethbridge

Faculty of Arts & Science

Program Planning Guide

Department: Geography

Calendar Year: 2013/2014

Name:_____

ID: _____

Bachelor of Science

Geography

Major in Geography:
www.uleth.ca/artsci/geography

Faculty of Arts and Science Student Program Services:
www.uleth.ca/artsci/advising
artsci.advising@uleth.ca
(403) 329-5106
SU060

Current and Past Program Planning Guides:
www.uleth.ca/ross/ppgs

Academic Calendar:
www.uleth.ca/ross/academic-calendar

Co-operative Education:
www.uleth.ca/artsci/coop

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)

_____ Archaeology 1000 - Introduction to Archaeology
_____ Biology 1020 - Diversity of Life
_____ Environmental Science 2000 - Fundamentals of Environmental Science
_____ Geography 1000 - Introduction to Physical Geography
_____ Geography 1200 - Introduction to Human Geography
_____ Geography 2030 - Geomorphology
_____ Geography 2210 - Spatial Organization of Economic Activity
_____ Geography 2300 - Weather and Climate
_____ Geography 2700 - Geographical Data and Analysis
_____ Geography 2735 - Introduction to Geographical Information Science

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

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

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

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

One of:

_____ Geography 4030 - Series in Advanced Physical Geography
_____ Geography 4751 - Project in Spatial Modelling
_____ Geography 4753 - Seminar in Remote Sensing
_____ Geography 4900 - History and Theory of Geography

One of:

_____ Chemistry 1000 - General Chemistry I
_____ Physics 1000 - Introduction to Physics I

One of:

_____ Mathematics 1410 - Elementary Linear Algebra
_____ Mathematics 1560 - Calculus I
_____ Statistics 1770 - Introduction to Probability and Statistics

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

_____

Other Courses (minimum 17 courses)

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

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

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. _____

Concentration:
Geographical Information Science (Optional)

See the 2013/2014 Calendar, p. 130, 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.

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

[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 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 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).