



Program Planning Guide

Current and past Program Planning Guides are available on the UofL website at www.uleth.ca/ross/ppgs/ppg.html

Calendar Year: 2012/2013

Faculty: Arts & Science

About the Concentration in Geographical Information Science for the Post-Diploma B.Sc. in Geography

Composed of both Geographical Information Systems and Remote Sensing, the University of Lethbridge's expanded concentration in Geographical Information Science gives students the expertise required for careers in forest management, oil and gas exploration, geotechnical consulting, agriculture, environmental consulting, urban and regional planning, geodemographics, health care delivery systems, park management, mining reclamation, and teaching. This area of study is one of the fastest growing within Geography; it is also a key to the discipline of Geography at the University of Lethbridge, where important research is conducted on global environmental change, water resources, and other areas of relevance to agriculture in particular. The Department of Geography offers instruction leading to a Bachelor of Science degree in Geography, with a Concentration in Geographical Information Science.

Approved Two-Year College Diplomas

At the time of printing (March 2012), the following two-year college diplomas are approved for admission:

Assiniboine Community College

GIS Environmental Technologies

Lethbridge College

Geomatics Engineering Technology

Mount Royal University

General Studies (Science-Geography)

Northern Alberta Institute of Technology (NAIT)

Geomatics Engineering Technology

Saskatchewan Institute of Applied Science and Technology (SIAST)

Geomatics Technology

Selkirk College

Integrated Environmental Planning Technology

For a complete listing of approved diploma programs, including discontinued diplomas still acceptable for admission, see UofL's Post-Diploma Degree Programs website: www.uleth.ca/postdiploma

Co-operative Education

A Co-op option, requiring three work terms, is available. Students interested in the Co-operative Education/Internship program should contact the Coordinator of Co-operative Education in the Career Resources Centre (AH154 | phone: 403-382-7154) for further information.

Program Requirements

The post-diploma B.Sc. degree with a major in Geography and a Concentration in Geographical Information Science requires 20 semester courses with a minimum cumulative grade point average of 2.00.

Residence Requirement

All 20 courses in the Post-Diploma program must be University of Lethbridge courses.

Program Worksheet

Name: _____ ID: _____

General requirements:

Successful completion of at least 20 courses (as indicated below) with a cumulative grade point average of at least 2.00:

____ 1-5. Completion of FIVE courses from Lists I and II for the General Liberal Education Requirement as follows:

____ a. Three courses from List I - Fine Arts and Humanities courses:

1. _____

2. _____

3. _____

and

____ b. One course from List II - Social Science courses:

and

____ c. One additional course from List I or II:

Note: For complete Lists I, II, and III for the General Liberal Education Requirement see the 2012/2013 Calendar, Part 4, p. 91. List III: Science Courses will be satisfied via the major requirements listed below.

____ 6. One additional course at the 3000/4000 level:

____ 7-20. 14 courses for the Geography major with a Concentration in Geographical Information Science, as listed below.

Major requirements:

____ 7-8. TWO of:

____ Environmental Science 2000 - Fundamentals of Environmental Science

____ Geography 2030 - Geomorphology

____ Geography 2300 - Weather and Climate

____ 9. Geography 1200 - Introduction to Human Geography

____ 10. Geography 2210 - Spatial Organization of Economic Activity

____ 11. Geography 2700 - Geographical Data and Analysis

____ 12. Geography 3740 - Geographical Information Systems

____ 13-14. TWO of the following courses dealing with Geographic techniques:

____ Geography 3235 - Quantitative Models for Geographic Analysis

____ Geography 3700 - Cartography

____ Geography 3710 - Field Techniques in the Earth Sciences

____ Geography 3720 - Remote Sensing

____ Geography 3750 - GIS Applications in Human Geography

____ 15-16. TWO additional courses in Geography, Geology or Archaeology at the 3000 or 4000 level, with a Science designation, at least ONE of which must be taken at the 4000 level.

1. _____

2. _____ (4000 level)

____ 17-19. THREE of:

- ____ Geography 4400 - Hydrology II OR Geography 4415 - Integrated Watershed Management OR Geography 4750 - Glacial Processes, Measurements, and Models
- ____ Geography 4700 - Advanced Computer Mapping
- ____ Geography 4710 - Remote Sensing Field Techniques
- ____ Geography 4725 - Advanced Remote Sensing
- ____ Geography 4730 - Spatial Statistics
- ____ Geography 4740 - Advanced Geographical Information Systems
- ____ Geography 4751 - Seminar in Spatial Modelling
- ____ Geography 4752 - Seminar in Geographical Information Systems
- ____ Geography 4753 - Seminar in Remote Sensing

Required Cognate:

____ 20. Computer Science 1620 - Fundamentals of Programming I

For students who complete all requirements, the Concentration in Geographical Information Science will be acknowledged on the official transcript.

Note: *Students may not take for credit courses that have close equivalents in their diploma program. Students should consult the Program Coordinator for Geography (Geographical Information Science Concentration) concerning possible adjustments to the above program requirements. Excluded courses include the following: Geography 1000 and Geography 2735.*

It is strongly recommended that students take Geography 3720 - Remote Sensing as part of their degree program.

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 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 Two of: Environmental Science 2000, Geography 2030, Geography 2300 Geography 1200 GLER course (List I) GLER course (List II)</p> <p>Year 2, Fall Geography 2210 Geographical Techniques course Geographical Techniques course Geography, Geology, or Archaeology 3000/4000 level (science) GLER course (List I or II)</p>	<p>Year 1, Spring Computer Science 1620 (<i>required cognate</i>) Geography 2700 Geography 3740 GLER course (List I) GLER course (List I)</p> <p>Year 2, Spring Geography, Geology, or Archaeology 3000/4000 level (science) Geography 4000-level list course Geography 4000-level list course Geography 4000-level list course Elective 3000/4000 level</p>
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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 2012/2013 University of Lethbridge Calendar, Part 4 - Academic Regulations (p. 91) 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 20 courses from any one department).

Cognate: A course from a related discipline deemed to complement the chosen area of study and to encompass knowledge and skills essential to that area.



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