



# **Program Planning Guide**

**Program:** Bachelor of Science/Bachelor of Education (B.Sc./B.Ed.)

Major (Arts and Science): Geography Major (Education): Science Education

**Calendar Year: 2015/2016** 

name:_	 	
ID:		

## 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 preregs/course

## **Faculty of Education Admission Requirements:**

www.uleth.ca/education/programs-degrees/ undergraduate-studies/admission

## **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

## **Faculty of Education Student Program Services:**

www.uleth.ca/education/student-advising edu.sps@uleth.ca (403) 329-2254 TH421

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 or Faculty of Education for advising information.

## **Bachelor of Science/Bachelor of Education**

Calendar Year - 2015/2016

Name:			ID:		
of at poin of the	at leas oint avo the equ	ography/Science Education) t 30 courses (90.0 credit hours) from discipline erage of at least 2.00. uivalent of 20 courses (60.0 credit hours) in Edu appropriate major.			
quii	iirem	ents (16 courses)	Other Courses (minim		
Biol	iology 1	1020 - Diversity of Life	Arts und science of Fine Arts courses (	•	
		ry 1000 - General Chemistry I	1	8	
Geo	eograp	hy 1000 - Introduction to Physical Geography	2	9	
Geo	eograp	hy 2030 - Geomorphology	2	J	
		hy 2300 - Weather and Climate	3	10	
		hy 2700 - Geographical Data and Analysis			
	eograp Scie	hy 2735 - Introduction to Geographical Information	4	11	
		atics 1560 - Calculus I	5	12	
		1000 - Introduction to Physics I	<u> </u>		
1 119	nysics	1000 Introduction to Thysics I	6	13	
One	ne of:		_		
		Geography 2090 - Biogeography	7	14	
		Geology 2060 - Physical Geology	T D .	. (20	
One	ne of:		Education Requiremen	nts (20-course equivalent)	
		Geography 3710 - Field Techniques in the Earth	Education 2500 - Praction	cum I - Orientation to Teaching	
		Sciences	Professional Semester I	_	
		Geography 3720 - Remote Sensing			
		Geography 3740 - Geographical Information	Professional Semester I		
		Systems	Professional Semester I	II (15.0 credit hours)	
Two	wo of:		Education Foundation:		
		Geography 3035 - Fluvial Geomorphology			
		Geography 3060 - Glaciology and Glacial	Three Education Electives:		
		Geomorphology	1	3	
		Geography 3080 - Soils			
		Geography 3300 - Microclimatology	2	-	
		Geography 3400 - Hydrology I			
One	ne of:				
		Geography 4065 - Irrigation Science			
		Geography 4400 - Hydrology II			
_		Geography 4415 - Integrated Watershed Management			
		Geography 4725 - Advanced Remote Sensing			
		Geography 4750 - Glacial Processes, Measurements, and Models			
l lab-	ab-base	d courses (6.0 credit hours) in Biology, Chemistry, or			
		16			
ed co	cours	es:			
		Basis of Life 2000 - Fundamentals of Environmental Science			

-	al Education Requirement (GLER).	Not more than three Independent Study courses (9.0 cr hours) may be completed for credit towards the degree.	
LIST I: Fine Arts and Humanities	•	Not more than three Disciplinary Credit Applied Studies	s
1	3	courses (9.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.	e
2	4	Applied Studies 2000, 2001, 2010, and 2011.	
LIST II: Social Science Courses		Not more than 17 courses (51.0 credit hours) may be completed from any one discipline for credit towards the	e
1	3	degree.  Note: Disciplines are identified by a specific course label (e.g. KNES, A	
2	4	and HIST are separate disciplines).	
LIST III: Science Courses		Not more than six credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for	r
1	3	credit towards the degree, except for Kinesiology majors	(no
2	4	more than 15.0 credit hours) and Music majors (not mother than 12.0 credit hours).	ле
		Residence requirement:	
Not more than 10 courses (30.0 credit hours) may be completed at		Degree:	
the 1000 level (or lower) [0500 - degree, excluding Activity course	4	Art and Science: at least 15 courses (45.0 credit hours) offered by the Faculty of Arts and Science or the Faculty Fine Arts must be completed at the University of Lethbr	of of
1	6	Education: at least 15 courses (45.0 credit hours) offere	_
2	7	the Faculty of Education must be completed at the Unive of Lethbridge.	rsit
3	8	Major: at least half of the courses required in the major r be completed at the University of Lethbridge.	nus
4	9		
5	10(max.)	Education Minor (If Applicable):  See the 2015/2016 Calendar, p. 159, for eligible minors.	
Completion of at least 10 courses	s (30 0 credit hours) from	1 4	
Completion of at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science or the Faculty			
of Fine Arts at the 3000/4000 leve (labelled PHAC and MUSE).	el, excluding Activity courses	2 5	
		3 6 Education (methods require	—— ment
1	6	Zadeanon (memous requires	псп
2	7	Education Specialization (If Applicable):	
3	8	See the 2015/2016 Calendar, p. 163, for details.	
4	9	1 4	_
5	10 (min.)	2 5. <u>Education 4573</u>	
		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 five 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

Geography 1000 Chemistry 1000 Mathematics 1560<sup>1</sup> GLER course GLER course

## Year 2, Fall

Education 2500<sup>2</sup>
Geography 2030
Geography 2735
Additional Jab based

Additional lab-based Biology, Chemistry, or Physics course

GLER course

## Year 3, Fall

Professional Semester I

## Year 4, Fall

One of: Geography 3710, Geography 3720, or Geography 3740<sup>2</sup> Geography 3000-level list course Geography 4000-level list course Elective 3000/4000 level Elective 3000/4000 level

#### Year 5, Fall

**Professional Semester III** 

## Year 1, Spring

Biology 1020 Geography 2300 Physics 1000 GLER course GLER course

## Year 2, Spring

Geography 2700
One of: Geography 2090<sup>3</sup> or
Geology 2060
Additional lab-based Biology,
Chemistry, or Physics course

(Biology 1010 recommended)
GLER course
GLER course

## Year 3, Spring

Geography 3000-level list course Environmental Science 2000 (recommended)

Elective 3000/4000 level Elective 3000/4000 level GLER course 3000/4000 level

#### Year 4, Spring

Professional Semester II

#### Year 5, Spring

Education Foundation course Education elective Education elective Education elective Elective 3000/4000 level

Elementary Education and Special/Inclusive Education students will reverse the fall and spring semesters in Year 5 and complete PS III in the spring.

## **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 17 courses from any one discipline).

## **Faculty of Education Admission**

Admission to the Faculty of Education requires successful completion of the following:

 20 semester courses (60.0 credit hours).
Minimum cumulative grade point average of 2.50 on all UofL and transferable courses taken within the semesters containing the last 20 courses (60.0 credit hours). All courses must be graded with the exception of Education 2500.
Minimum of eight courses (24.0 credit hours) in the major.
 Minimum cumulative grade point average of 2.50 on all graded courses comprising the major, including all transferable courses.
Credit in Education 2500 - Practicum I - Orientation to Teaching (or equivalent) including a favourable recommendation from the instructor.
Writing Proficiency Requirement: See Part 13 (Combined Degrees) in the Academic Calendar: www.uleth.ca/ross/academic-calendar
 Additional admission requirements in the following majors: Dramatic Arts, Music, Native Education and Physical Education

#### www.uleth.ca/ross/academic-calendar/part13.pdf

Students are advised to contact Student Program Services in the Faculty of Education (TH421; tel. 403-329-2254) for guidelines regarding the requirements stated above.

For application and document deadlines please refer to: www.uleth.ca/ross/admission-information/deadlines

## **Combined Degrees Program:**

Students begin this program in the Faculty of Arts and Science where they progress toward completion of Arts and Science degree requirements, and prepare to meet the admission requirements for the Faculty of Education. Please note that completion of the required prerequisites does not guarantee admission to the Faculty of Education. For students of Aboriginal descent, and students with a significant shift in academic performance, please see the current Calendar for the Faculty of Education's admission policy.



Students with less than 75% in Mathematics 30-1 or without Mathematics 31 must complete MATH 1010 as a prerequisite.

 $<sup>^2\,</sup>$  Education 2500 may also be taken in spring or summer semester.

<sup>&</sup>lt;sup>3</sup> Semester of offering may vary.