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University of Lethbridge

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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/Education

Faculty of Arts and Science: General Sciences

About the General Major in the Sciences

The General Major in the Sciences is designed to provide a broad major that supports the ideal of liberal education without sacrificing focus and depth unduly. Students are strongly encouraged to choose Science disciplines that are school subject areas or are taught in the provincial curriculum.

Co-operative Education in the Sciences

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.

Faculty of Education

Choosing an Education Major

The Faculty of Education offers 11 different majors that correspond to teaching subjects in Alberta schools (see p. 164 in the 2012/2013 University of Lethbridge Calendar for a listing). In highly competitive teaching majors, the GPA for admission may be above the minimum requirements.

Choosing Courses Outside the Major

Students sometimes find that their initial objective to teach only at the elementary level or only at the secondary school level is later modified—or even completely changed. Students are therefore encouraged to select courses that will prepare them for teaching in a variety of situations. Moreover, students should select courses that not only provide breadth and richness for the classroom but also provide the basis for the development of a teaching minor or specialization.

Choosing an Education Minor

The Faculty of Education offers 19 minors (see p. 169 in the 2012/2013 University of Lethbridge Calendar for a listing). A minor consists of five non-Education courses (excluding those used in the major) and one curriculum and instruction Education course (to be completed after admission to the Faculty of Education). Students may use the same courses to fulfill the minor and the General Liberal Education Requirement (GLER).

Choosing an Education Specialization

The Faculty of Education offers three specializations:

- Early Childhood Education (K-3)
- Special/Inclusive Education
- Technology in Education

The specializations consist of four courses and corresponding Professional Semester III focus.

Advantages of Completing a Minor and/or **Specialization**

Completing a minor and/or a specialization allows students to develop expertise in a second area of teaching and be more versatile and marketable as a graduating teacher. For more information, see the 2012/2013 University of Lethbridge Calendar, Part 8 - Education, Sections 7. Education Minors (p. 169) and 8. Education Specializations (p. 173).

Where to Get Help

Students may contact an Academic Advisor in Student Program Services in the Faculty of Education (email: edu.sps@uleth.ca | phone: 403-329-2254) or in the Faculty of Arts and Science (email: artsci.advising@uleth.ca | phone: 403-329-5106).

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.

Program Requirements

The B.Sc./B.Ed. Combined Degrees program with a General Major in the Sciences/Mathematics Education requires 50 courses, including 30 Arts and Science courses and 20 Education courses. Courses for the General Major in the Sciences will be chosen from three separate disciplinary streams or subject areas. Sixteen courses are required in the major.

Disciplinary Streams

You are required to do seven courses in your first disciplinary stream, which must be Mathematics/Statistics. An additional four courses are required in each of your remaining disciplinary streams. School subject areas include Biological Sciences, Chemistry, Geography, Physical Education (Kinesiology), and Physics. Non-school subjects include Archaeology, Computer Science, Neuroscience, and Psychology. You may choose non-school subjects for these streams, but you should understand that the more school subjects you include in your General Major, the better prepared you will be to teach. Your 16th course will be a 'Science in Human Affairs' course.

Transfer Credit

Remember that you may use both University of Lethbridge credit and credit transferred from another college or university to meet degree and major requirements. Transfer credit may be either specified or unspecified. Specified credit is indicated on your transcript by the subject name and the specific number of the course, e.g., Biology 1010, Mathematics 2560. Unspecified credit (1XXX, 2XXX, etc.) is indicated by the subject name and the level of the course in parentheses, e.g., Biology (1000 level), Mathematics (2000 level).

Unspecified Course Credit

Unspecified course credit means that the University of Lethbridge does not offer the same course you transferred in, but we recognize it and treat it as a regular course. An unspecified course would count as one of your maximum of 17 courses from one department, but it could not meet a specific course requirement. For example, if Mathematics 2560 is required in your program, you could not use Mathematics (2000 level) to fulfill that requirement. Students with unspecified transfer credit need to consult an Academic Advisor to establish how the transfer credit fits in the degree program. This should be done as soon as possible after transfer credit is awarded.

Program Worksheet					
Name:	ID:				
You are required to do seven courses	in vour first disciplinary stream, which must be Math	ematics/Statistics.			

You must choose the remaining two disciplinary streams from the following list:

Archaeology - all courses designated Science (Liberal Education 3600 may be substituted for one of the courses in Archaeology)

Biological Sciences - all Biology courses

Chemistry - all courses (including courses in Biochemistry)

Computer Science - all courses

Geography - all courses designated Science (including courses in Geology)

Kinesiology - all courses designated Science

Neuroscience - all courses

Physics - all courses (including courses in Astronomy and Engineering)

Psychology - all courses designated Science

Note: See List III: Science Courses in the 2012/2013 Calendar, p. 90.

Require	d cours	es:
	1-7.	SEVEN courses in Mathematics/Statistics (first disciplinary stream):
		1
		2
		3
		4
		5
		6
		7

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8-11.	FOUR courses in	_ (second disciplinary stream):
	1	
	2	
	3	
	4	
12-15.	FOUR courses in	_ (third disciplinary stream):
	1	
	2	
	3	
	4	
16.	ONE 'Science in Human Affairs' course from the following list:	
	Biochemistry 2300 - Elements of Human Nutrition	
	Environmental Science 2000 - Fundamentals of Environm	nental Science
	Philosophy 2233 - Philosophy and the World View of Scie	nce: Earth and Life Sciences
	Philosophy 2234 - Philosophy and the World View of Scie	nce: Space, Time and Matter
	Philosophy 3402 - Biomedical Ethics	
	Physics 2020 - The Physics of Everyday Life	
	Note: Some of the above courses have prerequisites which may or may not be inc sure that you have the prerequisite for the course.	luded in the major. Please check the current Calendar to make
	You may have chosen one of the above disciplines as your second or third a disciplines, it would be logical for you to use Physics 2020 as your 'Science Physics courses besides 2020. You cannot use the same course as both one of Affairs' requirement.	in Human Affairs' course. However, you must still take four
Additional requ	irements for the General Major in the Sciences:	
Α.	SIX courses out of the 16 required for the major must be at the 30	00/4000 level:

4. _____

5. _____6. _____

1._____

2. _____

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, Spring

Mathematics 2560

Year 2, Spring

Mathematics 2000

Biology 2000 level

Year 3, Spring

Biology 3000 level

Science elective

Year 4, SpringProfessional Semester II

Elective 3000/4000 level

Geography 3000 level (science)

Mathematics/Statistics 3000 level

Science elective 3000/4000 level

Biology 1020

GLER course

GLER course

GLER course

GLER course

GLER course

Year 1, Fall

Mathematics 1560 Biology 1010 Geography 1000 GLER course GLER course

Year 2, Fall Education 2500¹

Mathematics 1410 Statistics 1770

Geography 2000 level (science) GLER course

Year 3, FallProfessional Semester I

Year 4, FallMathematics/Statistics 3000/4000 level

Geography 3000 level (science) Science in Human Affairs course Science elective 3000/4000 level

Science elective

Year 5, Fall

Professional Semester III

Year 5, Spring

Education Foundation course

Education elective Education elective Education elective

Mathematics/Statistics 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.

Note: Biological Sciences and Geography have been used for illustration purposes. Plan accordingly with the disciplinary streams of your choice.

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. 90) 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 2012/2013 University of Lethbridge Calendar, Part 14 - Courses, p. 327). 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 department).



¹ Education 2500 may also be taken in Spring or Summer semester.