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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: 2013/2014

**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. 161 in the 2013/2014 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 18 minors (see p. 166 in the 2013/2014 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 two specializations:

- 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 2013/2014 University of Lethbridge Calendar, Part 8 - Education, Sections 7. Education Minors (p. 166) and 8. Education Specializations (p. 170).

### 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.

# General Major in the Sciences/ Mathematics Education

### **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 discipline, 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 your f	irst disciplinary stream, which must be Mathematics/Statistics.			
You must choose the remaining two disciplina	ry 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 2013/2014 Calendar, p. 88.

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

Ba	chelor of Science/Bachelor of Education	Calendar Year - 2013/2014
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 Environ	nmental Science
	Philosophy 2233 - Philosophy and the World View of Sci	ence: Earth and Life Sciences
	Philosophy 2234 - Philosophy and the World View of Sci	ience: Space, Time and Matter
	Philosophy 3402 - Biomedical Ethics	
	Physics 2020 - The Physics of Everyday Life	
	<b>Note:</b> Some of the above courses have prerequisites which may or may not be in sure that you have the prerequisite for the course.	•
	You may have chosen one of the above disciplines as your second or thira 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 Affairs' requirement.	ce in Human Affairs' course. However, vou must still take four
Additional requ	irements for the General Major in the Sciences:	
A.	SIX courses out of the 16 required for the major must be at the 3	000/4000 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

Year 3, Spring

Elective 3000/4000 level

Elective 3000/4000 level

**Year 4, Spring**Professional Semester II

Second stream course

Third stream course 3000/4000

Mathematics/Statistics 3000 level

Second stream course 3000/4000

**GLER** course

**GLER** course

**GLER** course

level

Elective

GLER course

**GLER** course

Second stream course

### Year 1, Fall

Mathematics 1560 Second stream course Third stream course GLER course GLER course

# **Year 2, Fall** Education 2500<sup>1</sup> Mathematics 1410 Statistics 1770

Third stream course GLER course

### Year 3, Fall

Professional Semester I

### Year 4. Fall

Mathematics/Statistics 3000/4000 level

level
Third stream course 3000/4000

level Science in Human Affairs course

Elective 3000/4000 level Elective 3000/4000 level

### 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.

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



<sup>&</sup>lt;sup>1</sup> Education 2500 may also be taken in Spring or Summer semester.