Biological Sciences/Science





Program Planning Guide

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

Major (Arts and Science): Biological Sciences

Major (Education): Science Education

Calendar Year: 2015/2016

Name:_	 	
ID:		
IV		

Major in Biological Sciences:

www.uleth.ca/artsci/biological-sciences

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 for advising information.

Bachelor of Science/Bachelor of Education

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Name:			ID:			
Completion of at leas a grade point ave Completion of the equ	t 30 courses (90.0 cr erage of at least 2.00	•	s offered by the Facult	y of Arts and Science or Faculty of Fine Arts wit		
Major Requirem	ents (16 course	es)	Other Courses Arts and Science or Fine	(minimum 14 courses)		
2. Biology 1 3. Biology 2 4. Biology 2 5. Biology 3 6. Biology 3 7. Chemist 8. Chemist	Mathematics 1560 - Physics 1000 - Intro Physics 1050 - Intro	Life netics logy nistry I nistry II nistry I Elementary Linear Algebra Calculus I	1	8		
two courses (6.0 credit	hours) from two of the lours) from the third so	he 3000/4000 level, including following subfield lists, and ubfield list; one of the five	Professional Professional	Semester I (15.0 credit hours) Semester II (15.0 credit hours) Semester III (15.0 credit hours)		
12	1	5	1			
13	1	6	2			
14			2			
List 1 - Cellular and M	Molecular Biology		,	AV .		
Biology 3000	Biology 3210	Biology 4140		Notes		
Biology 3005 Biology 3105	Biology 4100 Biology 4110	Biology 4170 Biology 4200		¹ Topics courses (Biology 3850 and 4850) may be assigned to one of the Biological Sciences lists at		
Biology 3115	Biology 4130	Biology 4230		the time of scheduling. Please refer to the current semester timetable.		
List 2 - Organismal B	iology			² Prerequisite required: Environmental		
Biology 3310	Biology 3505	Biology 4420		Science 2000.		
Biology 3400	Biology 3520	Biology 4440				
Biology 3420	Biology 3530	Biology 4560				
Biology 3460	Biology 3560					
List 3 - Ecology and E	volutionary Biology					
Biology 3605	Biology 3710	Biology 4740				
Biology 3610 ²	Biology 3800	Biology 4800				
Biology 3630	Biology 4700	5.				
Biology 3700	Biology 4710					
Recommended course	:					
		f Environmental Science				

Only four courses (12.0 credit hours) in total by a single department. See the 2015/2016 Ca	. ,	hours) may be completed for credit towards the degree.		
by a single department. See the 2015/2016 Ca LIST I: Fine Arts and Humanities Co		Not more than three Disciplinary Credit Applied Studies		
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.		
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		
1	3	degree. Note: Disciplines are identified by a specific course label (e.g. KNES, ASTR,		
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		
1	3	credit towards the degree, except for Kinesiology majors (no		
2	4	more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).		
		Residence requirement:		
Not more than 10 courses (30.0 cre		Degree:		
the 1000 level (or lower) [0500 - 19 degree, excluding Activity courses (-	Art and Science: at least 15 courses (45.0 credit hours) offered by the Faculty of Arts and Science or the Faculty of Fine Arts must be completed at the University of Lethbridge		
1	6	Education: at least 15 courses (45.0 credit hours) offered by		
2	7	the Faculty of Education must be completed at the University of Lethbridge.		
3	8	Major: at least half of the courses required in the major must be completed at the University of Lethbridge.		
4	9			
5	10(max.)	Education Minor (If Applicable):		
Completion of at least 10 courses (30.0 credit hours) from	1 4		
disciplines offered by the Faculty of of Fine Arts at the 3000/4000 level,		2 5		
(labelled PHAC and MUSE).	chordung nonvity courses	3 6		
1	6	Education (methods requirement)		
2	7			
3	8	Education Specialization (If Applicable): See the 2015/2016 Calendar, p. 163, for details.		
4	9	1 4		
5	10 (min.)	2 5. <u>Education 4573</u>		
o	10 (min.)	3		

Year 1, Spring

Environmental Science 2000

Biology 1020

Chemistry 2000

(recommended)

GLER course

GLER course

Biology 3300

GLER course

GLER course

GLER course

GLER course

Year 2, Spring

Biochemistry 2000

Year 3, Spring

Year 4, Spring

Professional Semester II

Biology 3000/4000 level

Biology 3000/4000 level

Elective 3000/4000 level

Elective 3000/4000 level

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 fourfive 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

Biology 1010 Chemistry 1000

Mathematics 1410 or Mathematics 1560 Physics 1050 *(preferred)*

GLER course

Year 2, Fall

Biology 2000 Biology 2200 Chemistry 2500 Education 2500¹ GLER course

Year 3, Fall

Professional Semester I

Year 4, Fall

Biology 3000/4000 level Biology 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level

Elective

Year 5, Fall

Professional Semester III

Year 5, Spring

Biology 4000 level Education Foundation course Education elective

Education elective Education elective

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: 3000- and 4000-level Biology courses are not typically offered every semester. Please use the following guidelines when planning your schedule:

Courses typically offered in the fall semester Biology 3005, 3210, 3420, 3605, 3630, 3700, 3710, 4110, 4130, 4200, 4560, 4700, 4740

Courses typically offered in the spring semester Biology 3115, 3310, 3400, 3460, 3800, 4100, 4170, 4230

Courses typically offered in alternate years Biology 3520, 3505, 3530, 3560, 3610, 4140, 4420, 4440, 4710, 4800

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 1724 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 ($24.0\ \mathrm{credit}\ \mathrm{hours}$) 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

For specific information on admission requirements, please refer to the Combined Degrees section of the Academic Calendar:

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.



¹ Education 2500 may also be taken in spring or summer semester.