University of Lethbridge



Program Planning Guide

Program: Bachelor of Science/Bachelor of Education (B.Sc./B.Ed.) **Major (Arts and Science):** Mathematics

Major (Education): Mathematics Education

ID:_____

Calendar Year: 2014/2015

Name:_____

Major in Mathematics:

www.uleth.ca/artsci/math-computer-science

Academic Calendar: www.uleth.ca/ross/academic-calendar

High School Prerequisites by Course:

www.uleth.ca/ross/hs_prereqs/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

Bachelor of C S ice/Bachelor of Education

athematics/Mathematics

Education

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 - 2014/2015

3._____

Name:____

B.Sc./B.Ed. (Mathematics/Mathematics Education)

Completion of at least 30 courses (90.0 credit hours) from disciplines offered by the Faculty of Arts and Science or Faculty of Fine Arts with a grade point average of at least 2.00.

Completion of the equivalent of 20 courses (60.0 credit hours) in Education with a program grade point average of at least 2.50 in Education courses and the appropriate major.

Major Requirements (13 courses)

Other Courses (minimum 17 courses)

Arts and Science or Fine Arts courses only

1. Mathematics 1410 - Elementary Linear Algebra		10
2. Mathematics 1560 - Calculus I	1	10
3. Mathematics 2000 - Mathematical Concepts	2.	11.
4. Mathematics 2560 - Calculus II		
5. Mathematics 2570 - Calculus III	3	12
6. Mathematics 2580 - Calculus IV	4 19	19
7. Mathematics 3400 - Group and Ring Theory	4	13
8. Mathematics 3410 - Linear Algebra	5	14
9. Mathematics 3500 - Analysis I		
One additional Mathematics or Statistics course at the 3000/4000-level	6	15
(excluding Mathematics 3980/Mathematics 4980, Statistics 3980/	7.	16.
Statistics 4980 - Applied Studies and Mathematics 3990/Mathematics 4990,	••	10
Statistics 3990/Statistics 4990 - Independent Study):	8	17
10		
	9	
Required cognates:	Education Requirements	(20-course equivalent)
11. Computer Science 1620 - Fundamentals of Programming I	_	-

12. Statistics 1770 - Introduction to Probability and Statistics

____ 13. Statistics 2780 - Statistical Inference

____ Education 2500 - Practicum I - Orientation to Teaching

- ____ Professional Semester I (15.0 credit hours)
- ____ Professional Semester II (15.0 credit hours)
- ____ Professional Semester III (15.0 credit hours)

Education Foundation:

Three Education Electives:

1._____

2._____

Notes

A 3000/4000-level Mathematics course regularly offered by the Department of Mathematics and Computer Science (excluding Mathematics 3980/ Mathematics 4980 - Applied Studies or Mathematics 3990/Mathematics 4990 - Independent Study) may replace Statistics 2780 in the list above.

ID:_

Bachelor of Science/Bachelor of Education

Completion of the General Liberal Ed Only four courses (12.0 credit hours) in total n by a single department. See the 2014/2015 Cale		Not more than three Independent Study courses (9.0 credit hours) may be completed for credit towards the degree.	
LIST I: Fine Arts and Humanities Courses		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	
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	
1	3	completed from any one discipline for credit towards the degree. Note: Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).	
2	4		
LIST III: Science Courses			
1	3	Not more than six credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).	
2	4		
Not more than 10 courses (30.0 cred	lit hours) may be completed at	Residence requirement:	
the 1000 level (or lower) [0500 - 199	9] for credit towards the	Degree:	
degree, excluding Activity courses (l	adelled PHAC and MUSE).	Art and Science: at least 15 courses (45.0 credit hours) offered by	
1	6	the Faculty of Arts and Science or the Faculty of Fine Arts must be completed at the University of Lethbridge. Education: at least 15 courses (45.0 credit hours) offered by the Faculty of Education must be completed at the University of Lethbridge. Major: at least half of the courses required in the major must be completed at the University of Lethbridge.	
2	7		
3	8		
4	9		
5	10(max.)		
		Education Minor (If Applicable):	
Completion of at least 10 courses (3)	0.0 credit hours) from	See the 2014/2015 Calendar, p. 166, for eligible minors.	
disciplines offered by the Faculty of Arts and Science or the Faculty		1 4	
of Fine Arts at the 3000/4000 level, et (labelled PHAC and MUSE).	xcluding Activity courses	2 5	
	C	3 6	
1	6	Education (methods requirement)	
2	7		
3	8	See the 2014/2015 Calendar, p. 170, for details.	
4	9	1 4	
5	10 (min.)	2 5. Education 4573	
		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 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 Mathematics 1410 Mathematics 1560 GLER course GLER course GLER course

Year 2, Fall

Computer Science 1620 Education 2500¹ Mathematics 2570 Statistics 1770 GLER course

Year 3, Fall Professional Semester I

Year 4, Fall

Mathematics 3400 Mathematics 3500 Elective 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level

Year 5, Fall Professional Semester III

Mathematics 2560 GLER course GLER course GLER course

Year 1, Spring

Mathematics 2000

Year 2, Spring

Mathematics 2580 Statistics 2780 GLER course Elective Elective

Year 3, Spring

Mathematics 3410 Elective 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level Elective

Year 4, Spring

Professional Semester II

Year 5, Spring

Education Foundation course Education elective Education elective Education elective Mathematics or 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.

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

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 2014/2015 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 2014/2015 University of Lethbridge Calendar, Part 14 - Courses, p. 315). 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).
- _____ 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

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.

