Bachelor of Science





Faculty of Arts & Science

Program Planning Guide

Department: Mathematics and Computer Science

Calendar Year: 2013/2014

Name:______
ID: _____

Major in Mathematics:

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

Faculty of Arts and Science Student Program Services:

www.uleth.ca/artsci/advising artsci.advising@uleth.ca (403) 329-5106 SU060

Current and Past Program Planning Guides:

www.uleth.ca/ross/ppgs

Academic Calendar:

www.uleth.ca/ross/academic-calendar

Co-operative Education:

www.uleth.ca/artsci/coop

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 - Mathematics

Calendar Year - 2013/2014

Iajor Requirements (18 courses)	Other Courses (minimum 22 courses)	
Computer Science 1620 - Fundamentals of Programming I	1	12
Computer Science 2620 - Fundamentals of Programming II Mathematics 1410 - Elementary Linear Algebra	2	13
Mathematics 1560 - Calculus I Mathematics 2000 - Mathematical Concepts	3	14
Mathematics 2560 - Calculus II	4	15
Mathematics 2570 - Calculus III Mathematics 2580 - Calculus IV	5	16
Mathematics 3400 - Group and Ring Theory Mathematics 3410 - Linear Algebra	6	17
Mathematics 3500 - Analysis I Statistics 1770 - Introduction to Probability and Statistics	7	18
Statistics 3500 - Mathematical Probability	8	19
aree additional courses (9.0 credit hours) in Mathematics or Statistics at 3000/4000 level	9	20
1 3	10	21
2	11	22

Notes

10ne of the additional 3000/4000-level courses may be replaced by a course from the following list:

Computer Science 3630 - Theoretical Foundations of Computing Physics 3200 - Mechanics

Students who intend to take Physics 3200 as a course contributing to the Mathematics major should carefully plan their program to include the required prerequisites.

It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in Computer Science, Mathematics, and Statistics.

See also:

- Bachelor of Science/Bachelor of Education Mathematics/Mathematics Education
- Bachelor of Science/Bachelor of Management Mathematics
- Bachelor of Science Computer Science

	eral Education Requirement (GLER). in total may be counted from all courses offered 014 Calendar, p. 88, for more information.		ive Independent Study courses (15.0 credit ompleted for credit towards the degree.
LIST I: Fine Arts and Humanities Courses		Not more than five Disciplinary Credit Applied Studies	
1	3	courses (15.0 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 24 courses (72.0 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, AST and HIST are separate disciplines).	
2	4		
LIST III: Science Courses		Not more than four Activity courses (i.e. courses labelled PHAC and MUSE; maximum 6.0 credit hours) may be completed for credit towards the degree, except for Kinesiology majors (not more than 10 Activity courses; 15.0 credit hours) and Music majors (not more than 8 Activity courses; 12.0 credit hours).	
1	3		
2	4		
	0 credit hours) may be completed at	,	,
	0 - 1999] for credit towards the rses (labelled PHAC and MUSE).	Not more than four courses (12.0 credit hours) from disciplines offered outside the Faculty of Arts and Science or the Faculty of Fine Arts may be completed for credit towards the degree (i.e. labelled CDEV, CRED, EDUC, HLSC, MGT, NURS, and PUBH). Courses cross-listed between the Faculty of Arts and Science and another Faculty do not count towards this limit.	
1	7		
2	8		
3	9		
4	10	Residence requirement: Degree: at least 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including the last 10 courses (30.0 credit hours) completed for credit towards the degree. Major: at least half of the courses required in the major must be completed at the University of Lethbridge.	
5	11		
6	12		
Completion of at least 15 cours	ses (45.0 credit hours) from llty of Arts and Science or the Faculty		
of Fine Arts at the 3000/4000 le	evel, excluding Activity courses	Minor (Optional):	
(labelled PHAC and MUSE).		See the 2013/2014 Calendar, p.	143, for eligible minors.
1	9	1	4
2	10	2	5
3	11	3	6
4	12		
5	13		
6	14		
7	15		
8			

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 four 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, FallYear 1, SpringMathematics 1410Mathematics 2000Mathematics 1560Mathematics 2560GLER courseGLER courseGLER courseGLER courseGLER courseGLER course

Year 2, FallYear 2, SpringComputer Science 1620Computer Science 2620Mathematics 2570Mathematics 2580Statistics 1770GLER courseGLER courseElectiveElectiveElective

Year 3, FallYear 3, SpringMathematics 3400Mathematics 3410Mathematics 3500Mathematics or Statistics 3000/Statistics 35004000 levelElectiveElective 3000/4000 level

Elective Elective S000/4000 level Elective Elective Elective Elective Elective

Year 4, Fall

Mathematics 4000 level

Mathematics or Statistics 3000/
4000 level

Elective 3000/4000 level

Elective

Terms Used

Elective

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 24 courses from any one discipline).

