

Program Planning Guide

Departments: Mathematics and Computer Science, Economics, Geography, and Psychology

Calendar Year: 2015/2016

Name:_____

ID: _____

Applied Statistics

Major in Applied Statistics:

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

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

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 - Applied Statistics

N a m e :	ID:
B.Sc. Applied Statistics Completion of at least 40 courses (120.0 credit hours) with a grade po	pint average of at least 2.00.
Major Requirements (21 courses)	Concentration in Psychology 12. Psychology 1000 - Basic Concepts of Psychology
Required courses (11 courses)	 12. Tsychology 1000 - Dask concepts of Tsychology 13. Psychology 2030 - Methods and Statistics
1. Computer Science 1620 - Fundamentals of Programming I 2. Mathematics 1410 - Elementary Linear Algebra 3. Mathematics 1560 - Calculus I 4. Mathematics 2560 - Calculus II 5. Statistics 1770 - Introduction to Probability and Statistics 6. Statistics 2200 - Survey Design and Analysis 7. Statistics 3500 - Mathematical Probability	14. Psychology 3400 - Advanced Research Design and Data Analysis 15-18. Four of: Neuroscience 2600 - Brain and Behaviour Psychology 2110 - Introduction to Child Development Psychology 2320 - Cognition and Perception: Thinking and Seeing
8. Statistics 3510 - Mathematical Statistics 9. Statistics 3700 - Design and Analysis of Experiments 10. Statistics 4990 - Independent Study 11. One of: Statistics 2780 - Statistical Inference Statistics 2900 - Economics and Business Statistics	Psychology 2330 - Learning and Cognition Psychology 2505 - Abnormal Psychology Psychology 2700 - Behaviour and Evolution Psychology 2800 - Social Psychology Psychology 2820 - Culture, Evolution, and Human Social Life Psychology 2840 - Comparative Sexuality
Required Concentration (10 courses): For the Major in Applied Statistics, all students must complete one of the following Concentrations:	Two additional courses (6.0 credit hours) in Psychology or Neuroscience at the 3000/4000 level 19 20
Concentration in Economics 12. Economics 1010 - Introduction to Microeconomics	One course (3.0 credit hours) in Psychology at the 4000 level
13. Economics 1012 - Introduction to Macroeconomics 14. Economics 2750 - Quantitative Methods in Economics 15. Economics 3010 - Intermediate Microeconomic Theory 16. Economics 3012 - Intermediate Macroeconomic Theory 17. Economics 3950 - Econometrics I	21 Other Courses (minimum 19 courses) 1
18. Economics 4960 - Econometrics II	2 12
One additional course (3.0 credit hours) in Economics at the 3000/4000 level	3 13
19	4. 14.
Two additional courses (6.0 credit hours) in Economics at the 4000 level	··· ···
20 21	5 15
	6 16
Concentration in Geography 12. Geography 1000 - Introduction to Physical Geography	7 17
13. Geography 1200 - Introduction to Human Geography 14. Geography 2210 - Spatial Organization of Economic Activity	8 18
14. Geography 2210 - Spatial Organization of Economic Activity 15. Geography 2700 - Geographical Data and Analysis	9 19
16. Geography 2735 - Introduction to Geographical Information Science	10
17. Geography 3235 - Quantitative Models for Geographic Analysis	
18. Geography 4730 - Spatial Statistics	Notes
19. One of: Geography 2030 - Geomorphology Geography 2300 - Weather and Climate 20. One of:	It is strongly recommended that a student attain a grade of 'C' or higher in an course used to satisfy prerequisites for courses in Computer Science, Mathema and Statistics.
20. One of: Geography 3740 - Geographical Information Systems Geography 3750 - GIS Applications in Human Coography	See also: • Bachelor of Science - Mathematics
Geography One additional course (3.0 credit hours) in Geography at the 3000/4000 level	

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Bachelor of Science - Applied Statistics

Completion of the General Liberal Education Requirement (GLER). Only four courses (12.0 credit hours) in total may be counted from all courses offered by a single department. See the 2015/2016 Calendar, p. 83, for more information.

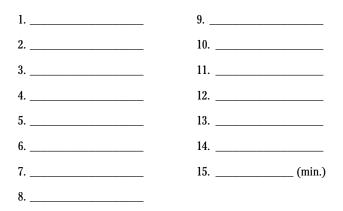
LIST I: Fine Arts and Humanities Courses

1	3
	0
2	4
LIST II: Social Science Courses	
1	3
2	4
LIST III: Science Courses	
1	3
2	4

Not more than 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) [0500 - 1999] for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE).

1	7
2	8
3	9
4	10
5	11
6	12(max.)

Completion of at least 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science or the Faculty of Fine Arts at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE).



- Not more than five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.
- Not more than five Disciplinary Credit Applied Studies 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.
- Not more than 24 courses (72.0 credit hours) may be 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).*

- 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).
- _____ 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 ADCS, 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.
- ____ 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.

Minor (Optional):

See the 2015/2016 Calendar, p. 137, for eligible minors.

1	4
2	5
3	6

Bachelor of Science - Applied Statistics

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, Fall Mathematics 1560¹ Statistics 1770 Concentration course GLER course GLER course

Year 2, Fall

Computer Science 1620 Statistics 2780 or Economics 2900 Concentration course GLER course Elective

Year 3, Fall

Statistics 3500 Concentration course Elective 3000/4000 level Elective 3000/4000 level Elective

Year 4, Fall

Concentration course Concentration course Elective 3000/4000 level Elective 3000/4000 level Elective

Year 1, Spring Mathematics 1410

Mathematics 2560 Concentration course GLER course GLER course

Year 2, Spring

Statistics 2200 Concentration course GLER course Elective Elective

Year 3, Spring

Statistics 3510 Statistics 3700 Concentration course Elective 3000/4000 level Elective

Year 4, Spring

Statistics 4990 Concentration course Concentration course Elective 3000/4000 level Elective 3000/4000 level

¹ Students with less than 75% in Mathematics 30-1 or without Mathematics 31 must complete Mathematics 1010 as a prerequisite.

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 24 courses from any one discipline).

