

University of
Lethbridge



Program Planning Guide

Name: _____

ID: _____

Calendar Year: 2023/2024

Major in Applied Statistics:

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

Academic Calendar:

www.ulethbridge.ca/ross/academic-calendar

High School Admission Requirements:

www.ulethbridge.ca/ross/admissions/undergrad/high-school

Current and Past Program Planning Guides:

www.ulethbridge.ca/ross/ppgs

Co-operative Education:

www.ulethbridge.ca/career-bridge/co-operative-education

Faculty of Arts and Science Advising:

www.ulethbridge.ca/artsci/advising
artsci.advising@uleth.ca
403-329-5106
M2102

Bachelor of Science
Applied Statistics

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 (www.ulethbridge.ca/ross/academic-advising) for advising information.

Name : _____

ID : _____

Program Requirements

Completion of at least 40 courses (120.0 credit hours) with cumulative and graduation grade point averages of at least 2.00.

Major Requirements (21-23 courses)

Required courses (11 Courses):

- _____ Computer Science 1620 - Fundamentals of Programming I
- _____ Mathematics 1410 - Elementary Linear Algebra
- _____ Statistics 1770 - Introduction to Probability and Statistics
- _____ Statistics 2200 - Survey Design and Analysis
- _____ Statistics 3500 - Mathematical Probability
- _____ Statistics 3510 - Mathematical Statistics
- _____ Statistics 3700 - Design and Analysis of Experiments

One of:

- _____ Mathematics 1560 - Calculus I
- _____ Mathematics 1565 - Accelerated Calculus I

One of:

- _____ Mathematics 2560 - Calculus II
- _____ Mathematics 2565 - Accelerated Calculus II

One of:

- _____ Statistics 2780 - Statistical Inference
- _____ Economics 2900 - Economics and Business Statistics
- _____ One course (3.0 credit hours) at the 4000 level in Statistics
- 1. _____

Required Concentration:

For the Major in Applied Statistics, all students must complete one of the following concentrations:

Concentration in Economics (10 courses)

- _____ Economics 1010 - Introduction to Microeconomics
- _____ Economics 1012 - Introduction to Macroeconomics
- _____ Economics 2750 - Quantitative Methods in Economics
- _____ Economics 3010 - Intermediate Microeconomic Theory
- _____ Economics 3012 - Intermediate Macroeconomic Theory
- _____ Economics 3950 - Econometrics I
- _____ Economics 4960 - Econometrics II
- _____ One additional course (3.0 credit hours) in Economics at the 3000/4000 level
- 1. _____
- _____ Two additional courses (6.0 credit hours) in Economics at the 4000 level
- 1. _____
- 2. _____

Concentration in Geography (10 courses)

- _____ Geography 1000 - Introduction to Physical Geography
- _____ Geography 1200 - Introduction to Human Geography
- _____ Geography 2210 - Spatial Organization of Economic Activity
- _____ Geography 2700 - Geographical Data and Analysis
- _____ Geography 2735 - Introduction to Geographical Information Science
- _____ Geography 3720 - Remote Sensing
- _____ Geography 3740 - Geographical Information Systems

One of:

- _____ Geography 2030 - Geomorphology
- _____ Geography 2300 - Weather and Climate

One of:

- _____ Geography 3735 - Analysis of Environmental Data
- _____ Geography 4725 - Advanced Remote Sensing
- _____ Geography 4740 - Advanced Geographical Information Systems
- _____ Remote Sensing 4650 - Physics of Remote Sensing
- _____ One additional course (3.0 credit hours) in Geography at the 3000/4000 level
- 1. _____

Concentration in Psychology (12 courses)

- _____ Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/Perception
- _____ Psychology 1020 - Introduction to Psychology B: Developmental, Sociocultural, and Abnormal
- _____ Psychology 1030 - Methods and Statistics A
- _____ Psychology 2030 - Methods and Statistics B
- _____ Psychology 3400 - Advanced Research Design and Data Analysis
- _____ Four courses (12.0 credit hours) in Psychology or Neuroscience at the 2000 level
- 1. _____
- 2. _____
- 3. _____
- 4. _____
- _____ Two additional courses (6.0 credit hours) in Psychology or Neuroscience at the 3000/4000 level
- 1. _____
- 2. _____
- _____ One course (3.0 credit hours) in Psychology at the 4000 level
- 1. _____

Other Courses (minimum 17-19 courses)

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____
- 10. _____
- 11. _____
- 12. _____
- 13. _____
- 14. _____
- 15. _____
- 16. _____
- 17. _____
- 18. _____
- 19. _____

Completion of the Liberal Education List Requirement (Lib Ed Requirement)

Only four courses (12.0 credit hours) in total may be counted from any one discipline toward the Lib Ed Requirement. Disciplines are identified by separate course subject codes.

Only four courses (12.0 credit hours) in total from the Faculty of Education (EDUC), Faculty of Health Sciences (ABHL, ADCS, HLSC, NURS, PUBH, and TREC), and the Dhillon School of Business (ACCT, AGEM, FINC, HRLR, IGBM, IMGT, MGT, and MKTG) may be counted towards the Lib Ed Requirement.

See the 2023/2024 Calendar, p. 83, for more information.

_____ Four Fine Arts and Humanities courses:

1. _____
2. _____
3. _____
4. _____

_____ Four Social Science courses:

1. _____
2. _____
3. _____
4. _____

_____ Four Science courses:

1. _____
2. _____
3. _____
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) and courses numbered in the range of 0520 to 0530.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Completion of at least 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or the School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE). Out-of-faculty courses (i.e. labelled ABHL, ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, HLSC, HRLR, IGBM, IMGT, MGT, MKTG, NURS, PUBH, and TREC) will not meet this requirement.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____

_____ 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.

_____ 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 six courses (18.0 credit hours) from disciplines outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree (i.e. labelled ABHL, ACCT, ADCS, AGEM, CDEV, CRED, EDUC, FINC, HLSC, HRLR, IGBM, IMGT, MGT, MKTG, NURS, PUBH, and TREC). Courses cross-listed between the Faculty of Arts and Science and another Faculty do not count towards this limit.

_____ Residence requirement:

Degree: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level.

Major: at least half of the courses required in the major must be completed at the University of Lethbridge.

** Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).*

_____ **Minor (Optional):** _____

See the 2023/2024 Calendar, p. 331, for more information.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Sample Sequencing Plan

Shown below is a sample sequence of courses for your degree. Consult timetables for course offerings, prerequisites, and corequisites before registering each term. 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.

<p>Year 1, Fall Mathematics 1560 or Mathematics 1565 Statistics 1770 Concentration course Lib Ed Requirement course Lib Ed Requirement course</p>	<p>Year 1, Spring Mathematics 1410 Mathematics 2560 or Mathematics 2565 Concentration course Lib Ed Requirement course Lib Ed Requirement course</p>
<p>Year 2, Fall Computer Science 1620 Statistics 2200 Concentration course Lib Ed Requirement course Elective</p>	<p>Year 2, Spring Statistics 2780 or Economics 2900 Concentration course Lib Ed Requirement course Elective Elective</p>
<p>Year 3, Fall Statistics 3500 Concentration course Concentration course Elective 3000/4000 level Elective</p>	<p>Year 3, Spring Statistics 3510 Statistics 3700 Concentration course Elective 3000/4000 level Elective</p>
<p>Year 4, Fall Concentration course Concentration course Elective 3000/4000 level Elective 3000/4000 level Elective</p>	<p>Year 4, Spring Statistics 4000 level¹ Concentration course Elective 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level</p>

¹ Term of offering may vary.

Note: Courses in **bold** in Years 1 and 2 of the sample sequence are prerequisite(s) for required courses and should be completed early in your program. Students are advised to review the prerequisites for elective courses within the major and plan accordingly.

The above sequence only lists 10 concentration courses (suitable for the Concentration in Geography or Economics). Students completing the 12-course Concentration in Psychology need to replace 2 Electives above with concentration courses.