

University of
Lethbridge



Program Planning Guide

Departments: Biological Sciences, Chemistry and Biochemistry, Economics, and Geography

Calendar Year: 2019/2020

Name: _____

ID: _____

Bachelor of Science
Agricultural Studies

Major in Agricultural Studies:

www.uleth.ca/artsci/agricultural-studies

Academic Calendar:

www.uleth.ca/ross/academic-calendar

High School Admission Requirements:

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

Current and Past Program Planning Guides:

www.uleth.ca/ross/ppgs

Faculty of Arts and Science Advising:

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

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.

Name : _____

ID : _____

B.Sc. Agricultural Studies

Completion of at least 40 courses (120.0 credit hours) with a grade point average of at least 2.00.

Major Requirements (20 courses):

Required core (12 courses):

- _____ 1. Agricultural Studies 1000 - The Evolution of Agriculture
- _____ 2. Agricultural Studies 3300 - Modelling of Agricultural Systems
- _____ 3. Agricultural Studies 4000 - Seminar in Agricultural Issues
- _____ 4. Agricultural Studies 4300 - Advanced Modelling of Agricultural Systems
- _____ 5. Biology 1010 - Cellular Basis of Life
- _____ 6. Biology 1020 - Diversity of Life
- _____ 7. Biology 2000 - Principles of Genetics
- _____ 8. Chemistry 1110 - Chemistry for Life Sciences I
- _____ 9. Economics 1010 - Introduction to Microeconomics
- _____ 10. Geography 1000 - Introduction to Physical Geography
- _____ 11. Statistics 1770 - Introduction to Probability and Statistics
- _____ 12. **One of:**
 - _____ Computer Science 1620 - Fundamentals of Programming I
 - _____ Mathematics 1010 - Introduction to Calculus
 - _____ Mathematics 1560 - Calculus I
 - _____ Mathematics 1565 - Accelerated Calculus I
 - _____ Physics 1050 - Introduction to Biophysics

Subfield requirements (eight courses):

Six courses (18.0 credit hours) from either subfield list (1. or 2.) (right)

- 13. _____ 16. _____
- 14. _____ 17. _____
- 15. _____ 18. _____

Two courses (6.0 credit hours) from the other subfield list (right)

- 19. _____ 20. _____

Four of the subfield courses (12.0 credit hours) must be at the 3000/4000 level

Technical Studies Term (five courses)

- _____ 1. Agricultural Studies 2000 unspecified
- _____ 2. Agricultural Studies 2000 unspecified
- _____ 3. Agricultural Studies 2000 unspecified
- _____ 4. Agricultural Studies 3000 unspecified
- _____ 5. Agricultural Studies 3000 unspecified

Other Courses (minimum 15 courses)

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

1. Biological Sciences

- | | | |
|---------------------------|--------------|----------------------------|
| Biology 2200 | Biology 3505 | Biology 4130 |
| Biology 3000 | Biology 3520 | ² Biology 4170 |
| Biology 3105 | Biology 3530 | Biology 4560 |
| ¹ Biology 3310 | Biology 3560 | Chemistry 2120 |
| Biology 3400 | Biology 3610 | Environmental Science 2000 |
| Biology 3420 | Biology 3700 | |
| Biology 3460 | Biology 4100 | |

2. Geography

- | | | |
|----------------------------|----------------|----------------|
| Environmental Science 2000 | Geography 3080 | Geography 4065 |
| Geography 2030 | Geography 3210 | Geography 4400 |
| Geography 2300 | Geography 3400 | Geography 4415 |
| Geography 2700 | Geography 3700 | Geography 4725 |
| Geography 2735 | Geography 3720 | Geography 4740 |
| Geography 3075 | Geography 3740 | Geology 2060 |
| | Geography 4060 | |

Notes

¹Prerequisite required: Biochemistry 2000.

²Prerequisite required: Biology 3210.

Applied Studies, Independent Studies and Topics courses may be counted toward the subfield requirements provided they are (1) clearly related to one of the subfields and (2) they are approved by the Coordinator of Agricultural Studies.

Students may not receive credit for courses at the University of Lethbridge for which close equivalents have been taken at the college, and vice versa. Students must ensure that their course selection has been approved by the Coordinator of Agricultural Studies.

Students wishing to pursue the Concentration in Geographical Information Science must complete Geography 2735 among the eight courses required in the Geography subfield.

A student who successfully completes this major may apply to the Alberta Institute of Agrologists (AIA) to be registered as a Professional Agrologist within Alberta. Students should contact the Coordinator of Agricultural Studies early in the program for further information.

See also:

- Post-Diploma Bachelor of Science - Agricultural Studies
- Bachelor of Arts - Agricultural Studies

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 (MGT) may be counted towards the Lib Ed Requirement.

See the 2019/2020 Calendar, p. 83, for more information.

LIST I: Fine Arts and Humanities Courses

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

- | | |
|----------|------------------|
| 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, 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, ADCS, CDEV, CRED, EDUC, HLSC, MGT, NURS, PUBH, and TREC) will not meet this requirement.

- | | |
|----------|------------------|
| 1. _____ | 9. _____ |
| 2. _____ | 10. _____ |
| 3. _____ | 11. _____ |
| 4. _____ | 12. _____ |
| 5. _____ | 13. _____ |
| 6. _____ | 14. _____ |
| 7. _____ | 15. _____ (min.) |
| 8. _____ | |

____ 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 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, ADCS, CDEV, CRED, EDUC, HLSC, MGT, 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.

Minor (Optional): _____
See the 2019/2020 Calendar, p. 277, for more information.

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

Concentration: Agricultural Business (Optional)
See the 2019/2020 Calendar, p. 100, for more information.

- | | |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | |

Concentration: Geographical Information Science (Optional)
See the 2019/2020 Calendar, p. 101, for more information.

- | | |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 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 four years, provided you complete five courses per 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 Agricultural Studies 1000 Biology 1010 or Biology 1020 Geography 1000 Required Computer Science, Mathematics, or Physics course Lib Ed Requirement course</p>	<p>Year 1, Spring Biology 1020 or Biology 1010 Economics 1010 Statistics 1770 Secondary subfield course Lib Ed Requirement course</p>
<p>Year 2, Fall Biology 2000 Chemistry 1110 Primary subfield course Lib Ed Requirement course Elective</p>	<p>Year 2, Spring Primary subfield course Secondary subfield course Elective Elective Elective</p>
<p>Year 3, Fall Agricultural Studies 3300 Primary subfield course 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level Elective</p>	<p>Year 3, Spring Technical Studies Term (15.0 credit hours)² Students will receive credit for the following (upon successful completion and receipt of transcripts):</p> <ul style="list-style-type: none"> • 2 Agricultural Studies 3000-level science courses • 3 Agricultural Studies 2000-level science courses
<p>Year 4, Fall Primary subfield course 3000/4000 level Primary subfield course 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level Elective</p>	<p>Year 4, Spring Agricultural Studies 4000 Agricultural Studies 4300¹ Primary subfield course 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level</p>

¹ Term of offering may vary.

² If the Technical Studies Term is assigned for Fall, Year Three, students should follow the Fall, Year Three sequence in Spring, Year Three.

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 electives courses within the major and plan accordingly.

Students choosing to complete requirements for the Concentration in Agricultural Business and/or the Concentration in Geographical Information Systems should choose those prescribed courses in place of Elective courses or Lib Ed Requirement courses.

Terms Used

Lib Ed Requirement course: A course that could count toward the Liberal Education List Requirement. You may use courses in your major towards this 12-course requirement. See the 2019/2020 University of Lethbridge Calendar, School of Liberal Education for complete information.

The School of Liberal Education 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 2019/2020 University of Lethbridge Calendar, Course Catalogue). LBED 1000 and 2000 may be used toward satisfying the Lib Ed Requirement.

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).

