



PROGRAM PLANNING GUIDE

ID:

Name: _____

Bachelor of Science

Agricultural Studies



Agricultural studies delves into the relationships between the social, economic, political and environmental factors that affect the agricultural sector — from farm level production to international policy. This broad range of perspectives will expand your understanding of issues such as policy development, the farm as a production unit and the environmental implications of land use. You'll also be exposed to the latest developments in genetic engineering, precision farming and animal nutrition, to name just a few.

What determines my program requirements?

Please refer to the Academic Calendar (www.ulethbridge.ca/ross/academic-calendar) for complete program information.

Calendar Year: 2024/2025 - Your calendar year is set to the academic year you are admitted (or readmitted) and you should follow the requirements for that year for the duration of your program.

Faculty/School: Faculty of Arts and Science (www.ulethbridge.ca/artsci)

Program(s): Bachelor of Science

Major(s): Agricultural Studies

Minor: A defined set of courses, designed to provide depth in a particular discipline, study in an interdisciplinary area, or focus on a theme-related topic. To learn more about optional minors see www.ulethbridge.ca/ross/minors.

Am I admissible to this program?

Admission: www.ulethbridge.ca/ross/admissions/undergrad

Transfer: www.ulethbridge.ca/ross/transfer-resources

When/How do I apply to the University?

Deadlines: www.ulethbridge.ca/ross/admissions/undergrad/deadlines

Step-by-Step: www.ulethbridge.ca/ross/admissions/step-by-step

Where can I find information on courses?

Course Catalogue: www.ulethbridge.ca/ross/courses

Registration Guide: www.ulethbridge.ca/ross/registration-guide

When can I register for classes?

Register early! (March for Summer and Fall; November for Winter)

Registration Dates: www.ulethbridge.ca/ross/registration-dates

How can I enhance my program?

Career Bridge: www.ulethbridge.ca/career-bridge

Co-op Education: www.ulethbridge.ca/career-bridge/co-operative-education

Honours Thesis: www.ulethbridge.ca/ross/undergraduate-thesis

Double Major: www.ulethbridge.ca/ross/double-major

What supports are available to students?

Student Services: www.ulethbridge.ca/campus-life/student-services

Student Success Centre: www.ulethbridge.ca/student-success-centre

Accessible Learning: www.ulethbridge.ca/ross/alc

Counselling Services: www.ulethbridge.ca/counselling





Required courses and notes

Major Requirements (20 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
13.-18. Six courses (18.0 credit hours) from either subfield list (1. or 2.) below
19.-20. Two courses (6.0 credit hours) from the other subfield list below
REQ. Four of the subfield courses (12.0 credit hours) must be at the 3000/4000 level

1. Biological Sciences

- Biology 2090/Geography 2090
Biology 2150
Biology 2200
Biology 2300
Biology 3095/Geography 3095
Biology 3420
Biology 3460
Biology 3520
Biology 3530
Biology 3560
Biology 3700
Biology 3710
Biology 3720
Biology 4570
Chemistry 2120
Environmental Science 2000
Environmental Science 4010

2. Geography

- Environmental Science 2000
Environmental Science 4010
Geography 2030
Geography 2065
Geography 2090/Biology 2090
Geography 2300
Geography 2700
Geography 2735
Geography 3075
Geography 3080
Geography 3095/Biology 3095
Geography 3210
Geography 3400
Geography 3440/Environmental Science 3440
Geography 3700
Geography 3710
Geography 3720
Geography 3735
Geography 3740
Geography 4060
Geography 4400
Geography 4725
Geography 4740

Technical Studies Term (5 courses)

The Technical Studies term should be taken after at least 20 university courses have been completed and prior to registration in the final 10 courses for the degree.

Students must have the college course selection approved by the Coordinator of Agricultural Studies. Further details are available from the Coordinator.

- 21.-25. Technical Studies Term (15.0 credit hour equivalent) (i.e., three unspecified 2000-level and two unspecified 3000-level Agricultural Studies courses)

Notes

1 This course has a prerequisite or corequisite that is not required for the major.

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.

Electives (15 Courses)

- 26.-40. Fifteen additional courses (45.0 credit hours) chosen to complete program requirements

- 26.
27.
28.
29.
30.
31.
32.
33.
34.
35.
36.
37.
38.
39.
40.

Optional Concentration:

Courses taken to complete the concentration will fill in as electives in the program requirements above.

For information about the optional concentrations, see Faculty of Arts and Science in the 2024/2025 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar.

1.-5. Required Courses

- 1.
2.
3.
4.
5.



Required courses and notes

Liberal Education List 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. Cross-listed courses count toward the limit for both disciplines (e.g. IGBM 3250/INDG 3250 counts toward the limit for Dhillon School of Business courses and Indigenous Studies).

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, IMG T, MGT, and MKTG) may be counted towards the Lib Ed Requirement.

To determine if a course has a Liberal Education designation, see School of Liberal Education in the 2024/2025 University of Lethbridge Undergraduate Calendar, www.ulethbridge.ca/ross/academic-calendar.

_____ **1.-4. List I: Fine Arts and Humanities**

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

_____ **5.-8. List II: Social Science**

- _____ 5. _____
- _____ 6. _____
- _____ 7. _____
- _____ 8. _____

_____ **9.-12. List III: Science**

- _____ 9. _____
- _____ 10. _____
- _____ 11. _____
- _____ 12. _____

General Requirements

- _____ A minimum of 40 courses (120.0 credit hours) with a GPA of at least 2.00.
- _____ A maximum of five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.
- _____ A maximum of 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.
- _____ A maximum of 24 courses (72.0 credit hours) may be completed from any one discipline for credit towards the degree. Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).
- _____ A maximum of 6.0 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).
- _____ A maximum of six courses (18.0 credit hours) from disciplines offered 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, IMG T, MGT, MKTG, NURS, PUBH, and TREC). Courses cross-listed between the Faculty of Arts and Science and another Faculty or School do not count towards this limit.
- _____ Residence requirement: 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. At least half of the courses required in the major must be completed at the University of Lethbridge.

A **maximum** of 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.

_____ **1.-12. Introductory Course Limit**

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

A **minimum** of 15 courses (45.0 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, 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, IMG T, MGT, MKTG, NURS, PUBH, and TREC) will not meet this requirement.

_____ **1.-15. Senior Course Requirement**

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

Optional Minor:

For information about minors see **Minors** in the 2024/2025 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar. Consult with an Academic Advisor if you wish to add a minor to your program.

_____ **1.-6. Required Courses**

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



Recommended Course Sequence

Shown below is the recommended sequence of courses for your degree. Consult timetables for course offerings, prerequisites, and corequisites before registering each term as some courses may have limited offerings (ie. once a year, alternating years, or only offered in the Fall or Winter terms).

Consult with an Academic Advisor in your faculty if you wish to alter this sequence with regard to the specifically listed courses.

Note that this sequence was prepared based on course scheduling at the time of publication and may change during your studies.

First Year

- Agricultural Studies 1000
- Biology 1010**
- Biology 1020**
- Chemistry 1110**
- Economics 1010**
- Geography 1000**
- Statistics 1770
- Secondary subfield course
- Lib Ed Requirement course
- Lib Ed Requirement course

Second Year

- Biology 2000
- Required Computer Science, Mathematics, or Physics course
- Primary subfield course
- Primary subfield course
- Secondary subfield course
- Lib Ed Requirement course
- Elective
- Elective
- Elective
- Elective

Third Year

- Agricultural Studies 3300
- Primary subfield course 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective

Technical Studies Term (15.0 credit hours)

Students will receive credit for the following (upon successful completion and receipt of transcripts):

- 2 Agricultural Studies 3000-level non-science courses
- 3 Agricultural Studies 2000-level non-science courses

Fourth Year

- Agricultural Studies 4000
- Agricultural Studies 4300
- Primary subfield course 3000/4000 level
- Primary subfield course 3000/4000 level
- Primary subfield course 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective

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.

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.