



PROGRAM PLANNING GUIDE

ID:

Name: _____

Post-Diploma 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

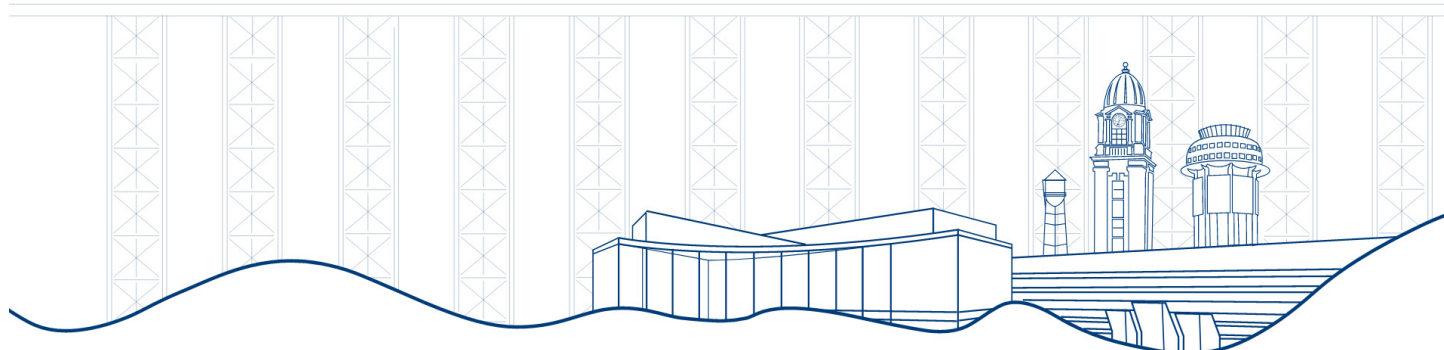
What supports are available to students?

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

Program Requirements (20 Courses)

Students must complete at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education, as follows, with a minimum GPA of 2.00.

Required core (11 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. Biology 1010 - Cellular Basis of Life
- _____ 5. Economics 1010 - Introduction to Microeconomics
- _____ 6. Economics 3220 - Environmental Economics
- _____ 7. Economics 3300 - Agricultural Policy I
- _____ 8. Geography 3210 - Food Systems Analysis
- _____ 9. Statistics 1770 - Introduction to Probability and Statistics
- _____ 10. **One of:**
 - _____ Philosophy 2001 - Introduction to Ethics
 - _____ Philosophy 2236 - Environmental Philosophy
 - _____ Philosophy 3402 - Biomedical Ethics
- _____ 11. **One of:**
 - _____ English 1900 - Introduction to Language and Literature
 - _____ History 1000 - The Western World
 - _____ History 1200 - World History
 - _____ Philosophy 1000 - Introduction to Philosophy
 - _____ Religious Studies 1000 - Introduction to World Religions
- _____ 12.-19. **One of the following streams (a. or b.; eight courses):**

a. Biological Sciences Stream

- _____ Biology 2000 - Principles of Genetics
- _____ Biology 2150 - Biostatistics
- _____ Biology 2200 - Principles of Ecology
- _____ Chemistry 1110 - Chemistry for Life Sciences I
- _____ Chemistry 2120 - Chemistry for Life Sciences II

Three of:

- _____ Biology 2090/Geography 2090 - Biogeography
- _____ ¹Biology 2300 - Cell Biology
- _____ Biology 3095/Geography 3095 - Advanced Biogeography
- _____ Biology 3420 - Animal Physiology
- _____ Biology 3460 - Plant Physiology
- _____ Biology 3520 - Invertebrate Zoology
- _____ Biology 3530 - Vertebrate Zoology
- _____ Biology 3560 - Integrative Plant Biology
- _____ Biology 3700 - Ecosystem Ecology
- _____ Biology 3710 - Population Biology
- _____ Biology 3720 - Community Ecology
- _____ Biology 4570 - Plant Breeding and Genetics
- _____ Environmental Science 2000 - Fundamentals of Environmental Science
- _____ Environmental Science 4010 - Current Events in Environmental Science

b. Geography Stream

Eight of:

- _____ Environmental Science 2000 - Fundamentals of Environmental Science
- _____ Environmental Science 4010 - Current Events in Environmental Science
- _____ Biology 2090/Geography 2090 - Biogeography
- _____ Geography 2300 - Weather and Climate
- _____ Geography 2700 - Geographical Data and Analysis

- _____ Geography 2735 - Introduction to Geographical Information Science
- _____ Geography 3075 - Environmental Resources Management
- _____ Geography 3080 - Soils
- _____ Geography 3095/Biology 3095 - Advanced Biogeography
- _____ Geography 3400 - Hydrology
- _____ Geography 3440/Environmental Science 3440 - Wetlands
- _____ Geography 3700 - Mapping in the Cloud
- _____ Geography 3710 - Field Techniques in the Earth Sciences
- _____ Geography 3720 - Remote Sensing
- _____ Geography 3735 - Analysis of Environmental Data
- _____ Geography 3740 - Geographical Information Systems
- _____ Geography 4060 - Agricultural Soil Management
- _____ Geography 4400 - Advanced Hydrology
- _____ Geography 4725 - Advanced Remote Sensing
- _____ Geography 4740 - Advanced Geographical Information Systems

Elective (one course):

- _____ 20. One additional course from List I: Fine Arts and Humanities Courses

Notes

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

Courses labeled as "electives" may be used towards a minor if a minor is chosen. Additional courses (apart from the core, stream, and elective courses) must be completed if a concentration is declared.

To determine if a given course has a Fine Arts and Humanities designation, see List I: Fine Arts and Humanities Courses (see **School of Liberal Education** in the 2024/2025 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar).

No more than two Independent Study courses (3990 or 4990; 6.0 credit hours) may be counted towards the program.

Students may count a maximum of two Special Topics courses (i.e., Biology or Geography 3850 or 4850) towards the required stream provided they are (1) clearly related to the stream and (2) 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 Stream.

A student who successfully completes this degree program and 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.

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. _____

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.

Biological Sciences Stream

First Year

- Agricultural Studies 1000
- Biology 1010**
- Biology 2000**
- Chemistry 1110**
- Economics 1010**
- Chemistry 2120
- One of: English 1900, History 1000, History 1200, Philosophy 1000, or Religious Studies 1000
- One of: Philosophy 2001, Philosophy 2236, or Philosophy 3402
- Statistics 1770
- Biology Stream course

Second Year

- Agricultural Studies 3300
- Agricultural Studies 4000
- Biology 2150
- Biology 2200**
- Economics 3220
- Economics 3300
- Geography 3210
- Biology Stream course
- Biology Stream course
- Lib Ed Requirement course

Note: Courses in bold in 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 or in Geographical Information Science should contact the Program Coordinator and/or Arts and Science Student Program Services early in their program for assistance in planning sequencing for the required courses.

Geography Stream

First Year

- Agricultural Studies 1000
- Biology 1010
- Economics 1010**
- Economics 3220
- One of: Philosophy 2001, Philosophy 2236, or Philosophy 3402
- Statistics 1770
- Geography Stream course
- Geography Stream course
- Geography Stream course
- Geography Stream course

Second Year

- Agricultural Studies 3300
- Agricultural Studies 4000
- Economics 3300
- Geography 3210
- One of: English 1900, History 1000, History 1200, Philosophy 1000, or Religious Studies 1000
- Geography Stream course
- Geography Stream course
- Geography Stream course
- Geography Stream course
- Geography Stream course
- Lib Ed Requirement course

Note: Courses in bold in 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.

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