

University of  
Lethbridge



## Program Planning Guide

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

**Calendar Year:** 2017/2018

**Name:** \_\_\_\_\_

**ID:** \_\_\_\_\_

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

**Major in Agricultural Studies:**

[www.uleth.ca/artsci/agricultural-studies](http://www.uleth.ca/artsci/agricultural-studies)

**Academic Calendar:**

[www.uleth.ca/ross/academic-calendar](http://www.uleth.ca/ross/academic-calendar)

**Current and Past Program Planning Guides:**

[www.uleth.ca/ross/ppgs](http://www.uleth.ca/ross/ppgs)

**Co-operative Education:**

[www.uleth.ca/artsci/coop](http://www.uleth.ca/artsci/coop)

**Faculty of Arts and Science Advising:**

[www.uleth.ca/artsci/advising](http://www.uleth.ca/artsci/advising)  
[artsci.advising@uleth.ca](mailto:artsci.advising@uleth.ca)  
403-329-5106  
SU060

**Approved Diploma Programs:**

[www.uleth.ca/postdiploma](http://www.uleth.ca/postdiploma)

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 :** \_\_\_\_\_

**Post-Diploma B.Sc. Agricultural Studies**

Completion of at least 20 courses (60.0 credit hours) from disciplines offered by the Faculty of Arts and Science or the Faculty of Fine Arts (i.e. no courses labelled ADCS, CDEV, CRED, EDUC, HLSC, MGT, NURS, PUBH, or TREC) with a grade point average of at least 2.00.

**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. 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 - Agricultural Geography
- \_\_\_\_\_ 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 - Western Civilization
  - \_\_\_\_\_ History 1200 - World History
  - \_\_\_\_\_ Philosophy 1000 - Introduction to Philosophy
  - \_\_\_\_\_ Religious Studies 1000 - Introduction to World Religions

One additional course from List I: Fine Arts and Humanities Courses

12. \_\_\_\_\_

**Required stream (Choose one of the following streams; 8 courses):**

**Biological Sciences Stream**

- \_\_\_\_\_ 1. Biology 2000 - Principles of Genetics
- \_\_\_\_\_ 2. Biology 2200 - Principles of Ecology
- \_\_\_\_\_ 3. Chemistry 1110 - Chemistry for Life Sciences I
- \_\_\_\_\_ 4. Chemistry 2120 - Chemistry for Life Sciences II

Four additional Biology courses from the Biological Sciences Stream list (below):

- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_

**Geography Stream**

Eight Geography courses from the Geography Stream list (below):

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_

**Biological Sciences Stream**

- |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|
| Biology 3000              | Biology 3460              | Biology 3700              |
| Biology 3105              | Biology 3520              | Biology 4100              |
| <sup>1</sup> Biology 3310 | Biology 3530              | <sup>3</sup> Biology 4170 |
| Biology 3400              | Biology 3560              | Biology 4560              |
| Biology 3420              | <sup>2</sup> Biology 3610 |                           |

**Geography Stream**

- |                            |                |                |
|----------------------------|----------------|----------------|
| Environmental Science 2000 | Geography 3080 | Geography 4065 |
| Geography 2300             | Geography 3400 | Geography 4200 |
| Geography 2700             | Geography 3700 | Geography 4400 |
| Geography 2735             | Geography 3720 | Geography 4415 |
| Geography 3075             | Geography 3740 | Geography 4725 |
|                            | Geography 4060 | Geography 4740 |

**Notes**

<sup>1</sup>Prerequisite required: Biochemistry 2000.

<sup>2</sup>Prerequisite required: Environmental Science 2000.

<sup>3</sup>Prerequisite required: Biology 3210.

To determine if a given course has a Fine Arts and Humanities designation, see List I: Fine Arts and Humanities Courses (see the 2017/2018 University of Lethbridge Calendar, **Part 4 - Academic Regulations, Program Requirements, p. 78**).

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:

- 1. They are clearly related to the stream; and,
- 2. They are 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.

**Concentration: Agricultural Business (Optional)**

See the 2017/2018 Calendar, p. 143, for more information.

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

**Geographical Information Science (Optional)**

See the 2017/2018 Calendar, p. 143, 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 two 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.

**Biological Sciences Stream**

<p><b>Year 1, Fall</b>                  Agricultural Studies 1000  <b>Biology 1010</b>  <b>Chemistry 1110</b>  <b>Economics 1010</b>                  One of: English 1900,                  History 1000, History 1200,                  Philosophy 1000, or Religious                  Studies 1000</p>	<p><b>Year 1, Spring</b>  <b>Biology 2000</b>                  Chemistry 2120                  Economics 3220                  One of <sup>1</sup>:Philosophy 2001,                  Philosophy 2236 or                  Philosophy 3402                  Statistics 1770</p>
<p><b>Year 2, Fall</b>                  Agricultural Studies 3300  <b>Biology 2200</b>                  Economics 3300                  Geography 3210                  Biology 3000/4000 level</p>	<p><b>Year 2, Spring</b>                  Agricultural Studies 4000                  Biology 3000/4000 level                  Biology 3000/4000 level                  Lib Ed Requirement course</p>

<sup>1</sup> 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 electives 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**

<p><b>Year 1, Fall</b>                  Agricultural Studies 1000                  Biology 1010  <b>Economics 1010</b>                  Geography Stream course                  Geography Stream course</p>	<p><b>Year 1, Spring</b>                  Economics 3220                  One of <sup>1</sup>:Philosophy 2001,                  Philosophy 2236 or                  Philosophy 3402                  Statistics 1770                  Geography Stream course                  Geography Stream course</p>
<p><b>Year 2, Fall</b>                  Agricultural Studies 3300                  Economics 3300                  Geography 3210                  Geography Stream course                  Geography Stream course</p>	<p><b>Year 2, Spring</b>                  Agricultural Studies 4000                  One of: English 1900,                  History 1000, History 1200,                  Philosophy 1000, or Religious                  Studies 1000                  Geography Stream course                  Geography Stream course                  Lib Ed Requirement course</p>

<sup>1</sup> 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 electives 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.

**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 2017/2018 University of Lethbridge Calendar, Part 4 - Academic Regulations for complete information.

**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).



**[www.ulethbridge.ca](http://www.ulethbridge.ca)**

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