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Program Planning Guide

Current and past Program Planning Guides are available on the UofL website at www.uleth.ca/ross/ppgs/ppg.html

Calendar Year: 2012/2013
Faculty: Arts & Science

About the Multidisciplinary Major in Agricultural Studies for the Post-Diploma B.Sc. The Post-Diploma B.Sc. degree program in Agricultural Studies employs a multidisciplinary perspective, including courses in Agricultural Studies, Biological Sciences, Economics and Geography. The multidisciplinary nature of the program is complementary to the technical training from agricultural colleges and creates a distinctive program in agricultural education. This program is enriched by the chance for students to gain practical skills through Co-op studies, summer employment opportunities and Applied and Independent Studies with professors and scientists.

Approved Two-Year College Diplomas

At the time of printing (March 2012), the following two-year college diplomas are approved for admission:

Assiniboine Community College

Agribusiness

Grande Prairie Regional CollegeAnimal Health Technology

Lakeland College

Agri-Business Agro-Environmental Technology Animal Health Technology Animal Science Technology Crop Technology Livestock Production

Lethbridge College

Agricultural Technology: Animal Science and Plant and Soil Science

Northern Alberta Institute of Technology (NAIT)

Animal Health Technology Golf Course Turfgrass Management

Olds College

Agricultural Management: Production, Finance, and Marketing Animal Health Technology Environmental Horticulture: Arboriculture and Landscape Management Land and Water Resources: Land Reclamation, Environmental Stewardship, and Rural Land Use Planning Production Horticulture Turfgrass Management

Saskatchewan Institute of Applied Science and Technology (SIAST)

Veterinary Technology

For a complete listing of approved diploma programs, including discontinued diplomas still acceptable for admission, see UofL's Post-Diploma Degree Programs website: www.uleth.ca/postdiploma

Alberta Institute of Agrologists (AIA)

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.

Where to Go for More Information

Students should contact the Coordinator of Agricultural Studies and the Student Program Services Office (SU060 | phone: 403-329-5106) for further information.

Co-operative Education

A Co-op option, requiring three work terms, is available. Students interested in the Co-operative Education/Internship program should contact the Coordinator of Co-operative Education in the Career Resources Centre (AH154 | phone: 403-382-7154) for further information.

Post-Diploma Bachelor of Sci

Agricultural Studies

Program Requirements

The post-diploma B.Sc. degree with a major in Agricultural Studies requires at least 20 semester courses with a minimum cumulative grade point average of 2.00.

Transfer Credit

Remember that you may use both University of Lethbridge credit and credit transferred from another college or university to meet degree and major requirements. Transfer credit may be either specified or unspecified. Specified credit is indicated on your transcript by the subject name and the specific number of the course, e.g., Biology 1010, Geography 1000, etc. Unspecified credit (1XXX, 2XXX, etc.) is indicated by the subject name and level of the course in parentheses, e.g., Biology (1000 level), Geography (2000 level), etc.

Unspecified Course Credit

Unspecified course credit means that the University of Lethbridge does not offer the same course you transferred in, but we recognize it and treat it as a regular course. An unspecified course would count as one of your maximum of 20 from one department, but it could not meet a specific course requirement. For example, if Biology 1010 is required in your program, you could not use Biology (1000 level) to fulfill that requirement. Students with unspecified transfer credit need to consult an Academic Advisor to establish how the transfer credit fits in the degree program. This should be done as soon as possible after transfer credit is awarded.

Program Worksheet

Name: ID):
A. 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	B. Choose one of the following streams, each consisting of eight courses: Biological Sciences Stream (EIGHT courses) 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 5-8. Four of: Biology 3000 - Gene Expression and Regulation Biology 3105 - Signal Transduction **Biology 3310 - Developmental Biology
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 Philosophy 1000 - Introduction to Philosophy Religious Studies 1000 - Introduction to World Religions 12. ** One additional course from List I (Fine Arts and Humanities Courses)	Biology 3400 - Principles of Microbiology Biology 3420 - Animal Physiology Biology 3460 - Plant Physiology Biology 3520 - Invertebrate Zoology Biology 3530 - Vertebrate Zoology Biology 3560 - Integrative Plant Biology *** Biology 3610 - Prairie Conservation Biology 3700 - Ecosystem and Community Ecology Biology 4100 - Advances in Agricultural Biotechnology **** Biology 4170 - Plant Biotechnology Biology 4560 - Plant Development *Students in the Post-Diploma B.Sc. in Agricultural Studies are considered to have the background that satisfies the prerequisite for each of these courses.

- ***Prerequisite required: Environmental Science 2000.
- ****Prerequisite required: Biology 3210.

Students choosing to complete courses in the Biological Sciences Stream that Note: require additional prerequisites will need to complete more than the minimum 20 courses for the Post-Diploma B.Sc.

Note: Students may count Special Topics courses (i.e., Biology 3850 and Biology 4850) toward the Biological Sciences Stream provided:

- 1. They are clearly related to the Stream; and,
- 2. They are approved by the Coordinator of Agricultural Studies.

Students may include a maximum of two Special Topics courses in their degree program.

^{*}Students in the Post-Diploma B.Sc. in Agricultural Studies are considered to have the background that satisfies the Geography prerequisite (Geography 2210) for

^{*} Students should choose Philosophy 1000 as background preparation if choosing Philosophy 3402.

Post-Diploma Bachelor of Science - Agricultural Studies

Calendar Year - 2012/2013

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Geography Stream (EIGHT courses)	Geography 4065 - Irrigation Science	
1-8. Eight of:	Geography 4200 - Project in Agricultural	
Environmental Science 2000 - Fundamentals of	Geography 4400 Hydrology II	
Environmental Science	Geography 4400 - Hydrology II Geography 4415 - Integrated Watershed	
* Geography 2300 - Weather and Climate	Management	
* Geography 2700 - Geographical Data and Analysis	Geography 4725 - Advanced Remote Sensing	
* Geography 2735 - Introduction to Geographical Information Science	Geography 4740 - Advanced Geographical Information Systems	
Geography 3075 - Environmental Resources	*Students in the Post-Diploma B.Sc. in Agricultural Studies are considered to have the background that satisfies the prerequisite for each of these courses.	
Management Geography 3080 - Soils	Note: Students may count Special Topics courses (i.e., Geography 3850 and Geography 4850) toward the Geography stream provided:	
Geography 3400 - Hydrology I	1. They are clearly related to the stream; and,	
Geography 3700 - Cartography Geography 3720 - Remote Sensing	2. They are approved by the Coordinator of Agricultural Studies. Note: Students wishing to pursue the Concentration in Geographical Information	
Geography 3740 - Remote Sensing Geography 3740 - Geographical Information Systems	Science must complete Geography 2700, Geography 2735, Geography 3720, and Geography 3740 among the eight courses required in the Geography Stream.	
Geography 4060 - Agricultural Soil Management	Note: Students should refer to the current Calendar to ensure they have completed the prerequisites for the above courses.	
Optional Concentrations		
Concentration: Agricultural Business	Note: Students who hold diplomas in Agribusiness may not receive credit for	
Students in the Post-Diploma B.Sc. in Agricultural Studies degree program may declare a Concentration in Agricultural Business.	Management 1000, Management 2020, Management 2030, Management 2060, or Management 2400 at the University of Lethbridge.	
In addition to the minimum of 20 courses required for this degree program,	Students may not double count courses required for the Concentration in Agricultural Business in fulfilling requirements for the General Liberal	
students must complete a minimum of FIVE courses for the Concentration in Agricultural Business as follows:	Education core. Students must select a List II course that is not required for the Concentration in Agricultural Business.	
a. For holders of diplomas other than diplomas in Agribusiness, the	For students who complete, in addition to the minimum 20 courses for this	
required courses include:	B.Sc. degree program, all five courses (as specified in a. or b. above), the Concentration in Agricultural Business will be acknowledged on the official	
1. Management 2020 - Marketing	transcript.	
2. Management 2100 - Introductory Accounting	Concentration: Geographical Information Science	
3-5. Three of:	Students in the Post-Diploma B.Sc. in Agricultural Studies degree program may declare a Concentration in Geographical Information Science.	
Economics 3030 - Managerial Economics Economics 3080/Management 3780 - Principles	Required courses:	
of Industrial Organization I	1-4. Four of:	
Management 3010 - Management Law	* Geography 3700 - Cartography OR	
Political Science 2210 - Canadian Politics and Government	Geography 4730 - Spatial Statistics	
* Political Science 3420/Management 3050 - Human Resource Management	* Geography 4400 - Hydrology II OR *Geography 4415 - Integrated Watershed Management	
*Has prerequisites: One of Management 2030 or one 2000-level Political Science course (3.0 credit hours), and one of Writing 1000 or a university English	Geography 4700 - Advanced Computer Mapping	
course (3.0 credit hours). b. For holders of diplomas in Agribusiness, the required courses	Geography 4710 - Remote Sensing Field Techniques * Coography 4775 - Advanced Borneto Sensing	
include:	* Geography 4725 - Advanced Remote Sensing Geography 4740 - Advanced Geographical	
1. * Management 3040 - Finance 2. One of:	Information Systems Geography 4751 - Seminar in Spatial Modelling	
** Management 3470 - Corporate Finance	Geography 4752 - Seminar in Geographical Information Systems	
*** Management 4230 - Marketing Management	Geography 4753 - Seminar in Remote Sensing	
3-5. Three of:	5. Required cognate:	
Economics 3030 - Managerial Economics	Computer Science 1620 - Fundamentals of	
Economics 3080/Management 3780 - Principles of Industrial Organization I	Programming I	
Management 3061 - Information Systems and Management	*Students may not double count courses required for the Concentration in Geographical Information Science in fulfilling requirements for the Geography Stream. In such cases, students must select another option from the Geography	
**** Management 3210 - Consumer Behaviour	Stream.	
Management 4220 - Cross-Cultural Marketing	For students who complete, in addition to the minimum 20 courses for this	
Political Science 2210 - Canadian Politics and	B.Sc. degree program, all five courses, the Concentration in Geographical Information Science will be acknowledged on the official transcript.	
Government *Has prerequisite: Economics 1012.		
** Has corequisite: One of Economics 2900 or Statistics 2780.		
*** Has prerequisite: Management 3220 (which requires one of		
Economics 2900 or Statistics 2780).		
****One of Writing 1000 or a university English course (3.0 credit hours).		

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 semester. 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

Year 1, Fall Agricultural Studies 1000 Biology 1010 Chemistry 1110 Economics 1010 One of: English 1900, History 1000, Philosophy 1000, Religious Studies 1000

Year 2, FallAgricultural Studies 3300

Biology 2200 Biology 3000/4000 level Economics 3300 Geography 3210²

Year 1, Spring

Biology 2000 Chemistry 2120 Economics 3220 One of ¹:Philosophy 2001, Philosophy 2236 or Philosophy 3402 Statistics 1770

Year 2, Spring

Agricultural Studies 4000 Biology 3000/4000 level Biology 3000/4000 level Biology 3000/4000 level GLER course (List I)

Note: 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

GLER course: A course that could count toward the General Liberal Education Requirement. You may use courses in your major towards this 12-course requirement. See the 2012/2013 University of Lethbridge Calendar, Part 4 - Academic Regulations (p. 91) 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 20 courses from any one department).

Geography Stream

rear I, Fall	rear 1, Spring
Agricultural Studies 1000	Economics 3220
Biology 1010	One of ¹ :Philosophy 2001,
Economics 1010	Philosophy 2236 or
One of: English 1900,	Philosophy 3402
History 1000, Philosophy 1000,	Statistics 1770
Religious Studies 1000	Required Stream course (2000
GLER course (List I)	level) ²
	Required Stream course (2000 level) ²

Year 2, Fall

Agricultural Studies 3300 Economics 3300 Geography 3210³ Required Stream course Required Stream course

Year 2, Spring

Agricultural Studies 4000 Required Stream course Required Stream course Required Stream course Required Stream course

Note: 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.



¹ Semester of offering may vary.

Students in the Post-Diploma B.Sc. in Agricultural Studies are considered to have the background that satisfies the Geography prerequisite (Geography 2210) for Geography 3210. Semester of offering may vary.

¹ Semester of offering may vary.

Students should complete 2000-level courses in order to satisfy prerequisites for other chosen courses in the Geography Stream.

Students in the Post-Diploma B.Sc. in Agricultural Studies are considered to have the background that satisfies the Geography prerequisite (Geography 2210) for Geography 3210. Semester of offering may vary.