University of Lethbridge				
	SIC			

N a m e :	ID:
-----------	-----



# **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: 2010/2011 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 2010), the following two-year college diplomas have been approved:

# Assiniboine Community College

Agribusiness

#### Lakeland College

Agri-Business
Agro-Environmental Technology
Animal Health Technology
Animal Science Technology
Crop Technology
Diversified Livestock Production (prior to 2004)

Herd Health Technology (prior to 2006) Livestock Production

# Lethbridge College

Agricultural Technology: General Agriculture (prior to 2004), Animal Science, Financial Management (prior to 2004), Plant and Soil Science, and Irrigation Production (prior to 2004)

# Northern Alberta Institute of Technology (NAIT)

Animal Health Technology Turfgrass Management Technology (prior to 2007)

# Olds College

Agricultural Business
Agricultural Production and Management
(formerly Agricultural Production)
Animal Health Technology
Crop and Agri-Food Technology
Horticulture (prior to 2004)
Land Agent
Land and Water Resources (formerly Land Resource Management)
Ornamental Horticulture
Production Horticulture
Seed and Grain (prior to 2004)
Turfgrass Management

## Saskatchewan Institute of Applied Science and Technology (SIAST)

Veterinary Technology

 $For a complete \ listing \ of \ approved \ diploma \ programs, see \ Uof L's \ Post-Diploma \ Degree \ Programs \ website: \ www.uleth.ca/post diploma$ 

### Alberta Institute of Agrologists (AIA)

This program has been recognized by the Alberta Institute of Agrologists (AIA) which is the provincial organization representing agrologists. Students who complete the Post-Diploma B.Sc. program in Agricultural Studies with either the Biological Sciences Stream or the Geography Stream will have a degree recognized by the AIA. Students should contact the Coordinator of Agricultural Studies 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 (B610 | phone: 403-382-7154) for further information.

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.

<u>Agricultural Studies</u>

#### **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:	:
	Core (12 courses):  Agricultural Studies 1000 - The Evolution of Agriculture Agricultural Studies 3300 - Modelling of Agricultural Systems Agricultural Studies 4000 - Seminars in Agricultural Issues Series Biology 1010 - Cellular Basis of Life Economics 1010 - Introduction to Microeconomics Economics 3220 - Environmental Economics Economics 3300 - Agricultural Policy I  * Geography 3210 - Agricultural Geography ONE of:	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  Biology 3400 - Principles of Microbiology
10. 11.	** Philosophy 3402 - Biomedical Ethics  ** Philosophy 3406 - Business Ethics  Statistics 1770 - Introduction to Probability and Statistics  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  ** ONE additional course from List I (Fine Arts and Humanities Courses)	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.

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

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 the program.

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

<sup>\*</sup> 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.

<sup>\*\*</sup> Students should choose Philosophy 1000 as background preparation for Philosophy 3402 and 3406.

<sup>&#</sup>x27;Prerequisite required: Biochemistry 2000.

<sup>\*\*\*</sup> Prerequisite required: Environmental Science 2000.

<sup>\*\*\*\*</sup> Prerequisite required: Biology 3210.

		Calendar Year - 2010/2011
<b>Geography Stro</b>	eam (EIGHT courses)	Geography 4065 - Irrigation Science
1-8.	Eight of:	Geography 4200 - Project in Agricultural
	Environmental Science 2000 - Fundamentals of	Geography
	Environmental Science	Geography 4400 - Hydrology II
	* Geography 2300 - Weather and Climate	Geography 4415 - Integrated Watershed Management
	* Geography 2700 - Geographical Data and	Geography 4725 - Advanced Remote Sensing
	Analysis	Geography 4740 - Advanced Geographical
	* Geography 2735 - Introduction to Geographical Information Science	Information Systems
	Geography 3075 - Environmental Resources	*Students in the Post-Diploma B.Sc. in Agricultural Studies are considered to hav
	Management Management	the background that satisfies the prerequisite for each of these courses.
	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	2. They are approved by the Coordinator of the program.
	Geography 3720 - Remote Sensing	Note: Students wishing to pursue the Concentration in Geographical Information
	Geography 3740 - Geographical Information	Science must complete Geography 2700, Geography 2735, Geography 3720, and Geography 3740 among the eight courses required in the Geography Stream.
	Systems	Note: Students should refer to the current Calendar to ensure they have completed th
	Geography 4060 - Agricultural Soil Management	prerequisites for the above courses.
Optional (	Concentrations	
Concentration:	Agricultural Business	Note: Students may not double count courses required for the Concentration in
	Post-Diploma B.Sc. in Agricultural Studies degree program may	Agricultural Business in fulfilling requirements for the General Liberal
	ntration in Agricultural Business.	Education core. Students must select a List II course that is not required for the Concentration in Agricultural Business.
	e minimum of 20 courses required for this degree program,	For students who complete, in addition to the minimum 20 courses for this
students must co	omplete a minimum of FIVE courses for the Concentration in	B.Sc. degree program, all five courses (as specified in a. or b. above), the
Agricultural Bus		Concentration in Agricultural Business will be acknowledged on the official
	rs of diplomas other than diplomas in Agribusiness, the courses include:	transcript.  Concentration: Geographical Information Science
1.	Management 2100 - Introductory Accounting	Students in the Post-Diploma B.Sc. in Agricultural Studies degree program ma
2.	Management 3020 - Marketing	declare a Concentration in Geographical Information Science.
2. 3-5.	THREE of:	Required courses for the Concentration in Geographical Information
ა-ა.		Science include:
	Economics 3030 - Managerial Economics	1-4. Four of:
	Economics 3080/Management 3780 - Principles of Industrial Organization	* Geography 3700 - Cartography OR
	Management 3010 - Management Law	Geography 4730 - Spatial Statistics
	Political Science 2410 - Public Administration	*Geography 4400 - Hydrology II OR
	* Political Science 3420/Management 3050 -	*Geography 4415 - Integrated Watershe Management
	Human Resource Management	Geography 4700 - Advanced Computer Mappin
	erequisites: Students should choose Political Science 2410 for this	Geography 4710 - Remote Sensing Field Scho
	tration and also need to complete Writing 1000 or a university English (3.0 credit hours).	* Geography 4725 - Advanced Remote Sensing
	rs of diplomas in Agribusiness, the required courses	* Geography 4740 - Advanced Geographical
include:		Information Systems
1.	* Management 3040 - Finance	Geography 4751 - Seminar in Spatial Modellin
		Geography 4752 - Seminar in Geographical
2.	One of:	Information Systems
	Management 3470 - Corporate Finance	Geography 4753 - Seminar in Remote Sensing
	*Management 4230 - Marketing Management	5. Required Cognate:
3-5.	Three of:	Computer Science 1620 - Fundamentals of
	Economics 3030 - Managerial Economics	Programming I
	Economics 3080/Management 3780 - Principles	*Students may not double count courses required for the Concentration in Geographical Information Science in fulfilling requirements for the Geography
	of Industrial Organization	Stream. In such cases, students must select another option from the Geography
	* Management 3061 - Information Systems and Management <sup>1</sup>	Stream.
	*Management 3210 - Consumer Behaviour <sup>2</sup>	For students who complete, in addition to the minimum 20 courses for this B.Sc. degree program, all five courses, the Concentration in Geographical
	* Management 4220 - International Marketing	Information Science will be acknowledged on the official transcript.
	Political Science 2410 - Public Administration	O
	*Students who hold diplomas in Agribusiness are considered to have	
	background that satisfies the Management prerequisites for these	
	required courses and may not receive credit for Management 2030 or Management 2000 (prior to 2003/2004), Management 2060,	
	Management 2400 or Management 3020 at the University of	
	Lethbridge. <sup>1</sup> Has corequisite: One of Writing 1000 or a university English course	
	[3.0 credit hours).	
	<sup>2</sup> Has prerequisite: 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, Fall**Agricultural Studies 3300

Biology 2200 Biology 3000/4000 level Economics 3300 Geography 3210<sup>1</sup>

# Year 1, Spring

Biology 2000 Chemistry 2120 Economics 3220 Philosophy 3402 or Philosophy 3406 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 2010/2011 University of Lethbridge Calendar, Part 4 - Academic Regulations (p. 85) 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

Year 1, Fall	Year 1, Spring
Agricultural Studies 1000	Economics 3220
Biology 1010	Philosophy 3402 or
Economics 1010	Philosophy 3406
One of: English 1900,	Statistics 1770
History 1000, Philosophy 1000,	Required Stream course (2000
Religious Studies 1000	level) <sup>1</sup>
GLER course (List I)	Required Stream course (2000 level) <sup>1</sup>

#### Year 2, Fall

Agricultural Studies 3300
Economics 3300
Geography 3210<sup>2</sup>
Required Stream course

Year 2, Spring

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.



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.

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.