

University of Lethbridge

Approved Undergraduate Course List for Registration with the Agrology Profession in Alberta, 2022/23

This list is intended for use by students **presently enrolled** in the University of Lethbridge (UofL) degree programs. This list is not exhaustive and is based ONLY on the current course offerings at UofL for the current academic year. It does not include courses from past academic years which might still be recognized for registration.

To be eligible to be registered as an Agrologist in Training (AIT) leading to the Professional Agrologist (PAg) designation, applicants must have obtained a 4-year 120-credit baccalaureate degree in agriculture or environmental science from a post-secondary institution recognized by AIA Council. This degree must meet the following course requirements:

- 1. Total Agrology (introductory + senior agrology) coursework must be a minimum of 60 credits with a minimum of 24 of these credits at a senior level (usually a third- or fourth-year course).
- 2. Foundational natural science coursework must be a minimum of 15 credits. Courses must be foundational to the Agrology profession and provide the scientific foundation upon which Agrology courses are built.
- 3. Mathematics OR calculus OR statistics coursework must be a minimum of 3 credits.
- 4. English OR communications coursework must be a minimum of 3 credits.
- 5. Economics coursework must be a minimum of 3 credits.

University of Lethbridge courses that are considered eligible for meeting the above coursework requirements are listed below in the following categories: Introductory Agrology, Senior Agrology, Foundational Natural Sciences, Mathematics, Calculus or Statistics, English or Communications, Economics.

Introductory Agrology Courses

Introductory + Senior Agrology coursework must total a minimum of 60 credits

* Courses marked with an asterisk require submission of additional documentation and approval by the Registrar of AIA.

Course ID	Title
AGEM 2600	Business of Agriculture
AGEM 2610	Legal Aspects of Agriculture
AGST 1000	The Evolution of Agriculture
AGST 3300	Modelling of Agricultural Systems



BCHM 2300	Elements of Human Nutrition
ECON 2150	Economics of Agricultural Issues
ECON 2350	Economics of Agricultural Markets I
ENVS 2000	Fundamentals of Environmental Science
GEOG 1000	Introduction to Physical Geography
GEOG 2030	Geomorphology
GEOG 2090	Biogeography
GEOG 2300	Weather and Climate
GEOG 2535	Introduction to Planning
GEOG 2700	Geographical Data and Analysis
GEOG 2735	Introduction to Geographic Information Systems
GEOG 3075	Environmental Resources Management
GEOG 3080	Soils
GEOG 3400	Hydrology
GEOG 3740	Remote Sensing
GEOG 3740	Geographical Information Systems

Senior Agrology Courses

(Minimum of 24 credits from the list)

* Courses marked with an asterisk require submission of additional documentation and approval by the Registrar of AIA.

Course ID	Title
AGEM 3275	Agricultural Marketing and Sales
AGEM 3475	Agricultural Finance and Markets
AGEM 3485	Applied Risk Management in Agriculture
AGEM 3635	International Trade
AGEM 4125	Accounting and Agricultural Enterprises
AGEM 4615	Sustainable Agriculture and Management
AGEM 4625	Issues in Agricultural Business
AGST 4000*	Seminar in Agricultural Issues
AGST 4300	Advanced Modelling of Agricultural Systems
BIOL 3420	Animal Physiology
BIOL 3460	Plant Physiology
BIOL 3560	Integrated Plant Biology
BIOL 3630	Field Biology
BIOL 3660	Field Botany
BIOL 3700	Ecosystem Ecology
BIOL 3710	Population Ecology
BIOL 3720	Community Ecology
BIOL 4100	Advances in Biotechnology
BIOL 4210	Environmental Genomics



BIOL 4440	Toxicology
BIOL 4500*	Seminars in Biological Sciences
BIOL 4570	Plant Breeding and Genetics
BIOL 4605	Conservation Biology
BIOL 4700	Molecular Ecology
BIOL 4740	Behavioral Ecology
BIOL 4800	Biology of Parasitism
BIOL 4840	Limnology
ECON 3210	Natural Resource Economics
ECON 3220	Environmental Economics
ECON 3300	Agricultural Policy I
ECON 3350	Economics of Agricultural Markets II
ECON 4300	Agricultural Policy II
ENVS 3000*	Selected Studies in Environmental Science I
ENVS 3440	Wetlands
ENVS 4000*	Selected Studies in Environmental Science II
GEOG 3060	Glaciology and Glacial Geomorphology
GEOG 3095	Advanced Biogeography
GEOG 3210	Food Systems Analysis
GEOG 3300	Microclimatology
GEOG 3440	Wetlands
GEOG 3710	Field Techniques in the Earth Sciences
GEOG 3792*	Field Excursion in Physical Geography
GEOG 4030*	Advanced Physical Geography
GEOG 4060	Agricultural Soil Management
GEOG 4065	Irrigation Science
GEOG 4400	Advanced Hydrology
GEOG 4700	Advanced Digital Mapping
GEOG 4710	Remote Sensing Field Techniques
GEOG 4725	Advanced Remote Sensing
GEOG 4730	Spatial Statistics
GEOG 4740	Advanced Geographic Information Systems
GEOG 4751	Spatial Modelling
GEOG 4753*	Seminar in Remote Sensing

Foundational Natural Sciences

(Minimum 15 credits from the list)

Course ID	Title
BCHM 2000	Introduction to Biochemistry
BCHM 3100	Proteins, Enzymes, and Nucleic Acids
BCHM 3300	Bioenergetics and Metabolism



BIOL 1010	Cellular Basis of Life
BIOL 1020	Diversity of Life
BIOL 2000	Principles of Genetics
BIOL 2200	Principles of Ecology
BIOL 2300	Cell Biology
BIOL 3000	Gene Expression and Regulation
BIOL 3300	Evolution
BIOL 3400	Principles of Microbiology
CHEM 1000	General Chemistry I
CHEM 1110	Chemistry for the Life Sciences I
CHEM 2000	General Chemistry II
CHEM 2120	Chemistry for the Life Sciences II
CHEM 2410	Analytical Chemistry I
CHEM 2500	Organic Chemistry I
CHEM 2600	Organic Chemistry II
CHEM 2730	Physical Chemistry I
CHEM 3730	Physical Chemistry II
CHEM 3830	Inorganic Chemistry I
CHEM 3840	Inorganic Chemistry II
GEOG 2065	Physical Geology
PHYS 1000	Introduction to Physics I
PHYS 1050	Introduction to Biophysics
PHYS 2000	Introduction to Physics II
PHYS 2120	Introduction to Physics III

Mathematics or Statistics Courses

(Minimum of 3 credits selected from the list)

Course ID	Title
BIOL 2150	Biostatistics
BIOL 4810	Experimental Design and Analysis
GEOG 3735	Analysis of Environmental Data
MATH 1010	Introduction to Calculus
MATH 1410	Elementary Linear Algebra
MATH 1560	Calculus I
MATH 1565	Accelerated Calculus I
MATH 2560	Calculus II
MATH 2565	Accelerated Calculus II
MATH 3410	Linear Algebra
STAT 1770	Introduction to Probability and Statistics
STAT 2200	Survey Design and Analysis
STAT 2780	Statistical Inference



Communication or Equivalent Courses

(Minimum of 3 credits selected from the list)

Course ID	Title
ENGL ****	Any ENGL course with a reading and writing focus
MGMT 2081	Professional Communications Skills
WRIT 1000	Introduction to Academic Writing

Economics Courses

(Minimum of 3 credits selected from the list)

Course ID	Title
ECON 1010	Introduction to Microeconomics
ECON 1012	Introduction to Macroeconomics