Last Reviewed by UofA: 29/09/2022



University of Alberta 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 Alberta (UofA) degree program(s). This list is not exhaustive and is based ONLY on the current course offerings at the UofA 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 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 Alberta 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
AN SC 100	Introduction to Animal Health Sciences
AN SC 101	Principles of Animal Agriculture
AN SC 260	Fundamentals of Animal Nutrition
AREC 173	The Plate, the Planet and Society



	Current Economic Issues for Agriculture and Food
\ \DEC 211	
	Applications of Quantitative Models to Food, Resources and the Environment
	Social and Economic Issues of Food Biotechnology
AREC 323	Introduction to Management for Agri-Food, Environment, and Forestry Businesses
EAS 204	Environment Alberta
EAS 221	Intro to GIS and Remote Sensing
EAS 225	Earth Surface Processes and Landforms
	Biogeography
ECON 269	Economics of the Environment
ENT 207	Agricultural Entomology
ENT 220	Insect Biology
ENT 222	Insects in Managed Ecosystems
NUFS 100	Intro to Food Science and Technology
NUFS 200	Intro to Functional Foods and Nutraceuticals
NUFS 201	Physical Principles of Food Structure and Functionality
NUFS 223	The Cultural Ecology of Food and Health
NUFS 283	Introduction to Food Engineering
PLSC 210	Exploring Field Crop Agronomy
PLSC 221	Introduction to Plant Science
RENR 105	Introduction to Environmental Sciences
RENR 110	Natural Resource Measurement
RENR 120	Introduction to Plant Identification
RENR 201	Introduction to Geomatic Techniques in Natural Resource Management
RENR 205	Wildlife Biodiversity & Ecology
REN R 210	Introduction to Soil Science
RENR 250	Water Resource Management
RENR 260	History and Fundamentals of Environmental Protection and Conservation
RENR 290	Field Skills in Environmental, Conservation, and Forest Sciences
RENR 299	Environmental and Conservation Sciences Field School
RSOC 260	Indigenous Foundations for Environmental and Conservation Sciences
RSOC 271	The Politics of Food and Natural Resources

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
AN SC 310	Physiology of Domestic Animals
AN SC 311	Metabolic Physiology of Domestic Animals
AN SC 312	Reproductive Physiology of Domestic Animals



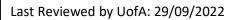
AN SC 320 Livestock Growth and Meat Production AN SC 320 Equine Science AN SC 375 Animal Health and Disease AN SC 375 Animal Welfare AN SC 377 Food Animal Behavior AN SC 384 Principles of Animal Genetics AN SC 400* Individual Study AN SC 410 AN SC 410 AN SC 410 AN SC 411 Veterinary Immunology AN SC 420 Meat Science AN SC 461 AN SC 461 AN SC 462 AN GA 471 Applied Poultry Science AN SC 472 Applied Poultry Science AN SC 472 Applied Dairy Production Science AN SC 473 AN SC 474 Applied Bef Cattle Science AN SC 475 AN SC 476 Applied Swine Science AN SC 476 AN SC 477 Applied Swine Science AN SC 478 AN SC 487 Animal Genetics and Breeding AN SC 499* Integrative Project in Animal Bond AN SC 499* Integrative Project in Animal Health Science AN SC 499* Integrative Project in Animal Health Science AR SC 499* Integrative Project in Animal Health Science AR SC 499* Integrative Project in Animal Health Science AR SC 499* Integrative Project in Animal Health Science AR SC 499* Integrative Project in Animal Health Science AR SC 499* Integrative Project in Animal Health Science AR SC 499* Integrative Project in Animal Health Science AREC 333 Economics of Production and Resource Management AREC 384 AFC 385 Natural Resource Economics AREC 387 World Food and Agriculture AREC 388 Food Market Analysis AREC 400* Special Topics AREC 423 Advanced Management Methods and Applications in Applied Economics AREC 430 Action Advanced Management Methods and Applications in Applied Economics AREC 430 Action Advanced Management Methods and Applications in Applied Economics AREC 430 Arec 443 Advanced Management Methods and Applications in Applied Economics AREC 430 Arec 444 Advanced Management in Food and Resource Businesses AREC 448 AREC 485 Trade and Globalization in Food and Resource Businesses AREC 484 Introduction to Agricultural Policies AREC 485 Cooperatives and Alternative Business Institutions AREC 486 Introduction to Agricultural and Resource Game Theory BIOL 332 Community Ecology		
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AREC 430 Economic Impact Assessment AREC 433 Financial Management in Resource Industries AREC 460 Land Use Economics AREC 465 Advanced Natural Resource Economics AREC 473 Food and Agricultural Policies AREC 482 Cooperatives and Alternative Business Institutions AREC 484 Strategic Management in Food and Resource Businesses AREC 485 Trade and Globalization in Food and Resources AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 410	Advanced Management Methods and Applications in Applied Economics
AREC 433 Financial Management in Resource Industries AREC 460 Land Use Economics AREC 465 Advanced Natural Resource Economics AREC 473 Food and Agricultural Policies AREC 482 Cooperatives and Alternative Business Institutions AREC 484 Strategic Management in Food and Resource Businesses AREC 485 Trade and Globalization in Food and Resources AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 423	Advanced Management Methods & Applications for Agri-Food, Fashion, and Resource Businesses
AREC 460 Land Use Economics AREC 465 Advanced Natural Resource Economics AREC 473 Food and Agricultural Policies AREC 482 Cooperatives and Alternative Business Institutions AREC 484 Strategic Management in Food and Resource Businesses AREC 485 Trade and Globalization in Food and Resources AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 430	Economic Impact Assessment
AREC 465 Advanced Natural Resource Economics AREC 473 Food and Agricultural Policies AREC 482 Cooperatives and Alternative Business Institutions AREC 484 Strategic Management in Food and Resource Businesses AREC 485 Trade and Globalization in Food and Resources AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 433	Financial Management in Resource Industries
AREC 473 Food and Agricultural Policies AREC 482 Cooperatives and Alternative Business Institutions AREC 484 Strategic Management in Food and Resource Businesses AREC 485 Trade and Globalization in Food and Resources AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 460	Land Use Economics
AREC 482 Cooperatives and Alternative Business Institutions AREC 484 Strategic Management in Food and Resource Businesses AREC 485 Trade and Globalization in Food and Resources AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 465	Advanced Natural Resource Economics
AREC 484 Strategic Management in Food and Resource Businesses AREC 485 Trade and Globalization in Food and Resources AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 473	Food and Agricultural Policies
AREC 485 Trade and Globalization in Food and Resources AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 482	Cooperatives and Alternative Business Institutions
AREC 487 Managing Market Risk in Resource Industries AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 484	Strategic Management in Food and Resource Businesses
AREC 488 Introduction to Agricultural and Resource Game Theory BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology	AREC 485	Trade and Globalization in Food and Resources
BIOL 322 Diversity and Evolution of Microbial Life BIOL 331 Population Ecology		
BIOL 331 Population Ecology	AREC 488	Introduction to Agricultural and Resource Game Theory
	BIOL 322	
BIOL 332 Community Ecology	BIOL 331	Population Ecology
	BIOL 332	Community Ecology



Wetland Ecology and Management
Global Biogeochemistry
Ecotoxicology
Freshwater Ecology
Methods in Freshwater Ecology
Northern Ecology
Conservation Biology
A Planet in Crisis
Global Change and Ecosystems
Zoonoses Plant Animal Interactions
Plant Animal Interactions
Chemical Ecology
Watershed Ecohydrology
Global Biogeochemical Cycles
Problems in Conservation Biology
Landscape Ecology
Plant Development
Biology of the Fungi
Plant Anatomy
Biology of Bryophytes
Plant Diversity and Evolution
Field Botany
Plant Ecology
Plant Physiology
Plant Biotechnology
Molecular Plant Physiology
Environmental Chemistry I
Environmental Chemistry II
Geochemistry I
Introduction to Hydrogeology
Quaternary Geoscience and Terrain Analysis
Environmental Applications of GIS
Environmental Earth Science Field School
Contaminant Hydrogeology
Digital Remote Sensing
Hydrologic Modeling
Geochemical Processes
Resource Economics
Environmental and Natural Resource Policy
Natural Resource and Environmental Law
Principles of Rangeland Conservation & Habitat Management
Rangeland Plant Communities of Western Canada



ENCS 407	Rangeland Plant Communities of North America
ENCS 407	Practical Case Studies in Rangeland Management & Conservation
ENCS 471	Environmental and Conservation Policy
ENCS 473 ENT 378	·
	Insect Pathology
NU FS 300	Fundamentals of Dairy Science
NU FS 305	Introduction to the Principles of Nutrition
NU FS 312	Quality Assurance
NU FS 353	Unit Operations in Food Processing
NU FS 356	Nutrition Across the Lifespan
NU FS 361	Food Microbiology
NU FS 372	(NU FS 373) Food Chemistry
NU FS 374	Food Fundamentals and Quality
NU FS 400*	Undergraduate Reading Project
NU FS 401*	Undergraduate Research Project
NU FS 402	Brewing, Enology, and Food Fermentations
NU FS 403	Processing of Milk and Dairy Products
NU FS 404	Muscle Food Science and Technology
NU FS 406	Science and Technology of Cereal and Oilseed Processing
NU FS 427	Food Safety
NU FS 442	Sustainability of Food and Bio-based Products
NU FS 450	Food Product Development
NU FS 454	Unit Operations in Food Preservation
NU FS 480	Microbial Food Safety
NU FS 490	Innovations in Food Science
NU FS 499	Advanced Agri-Chemical Analysis
PLSC 310	Insects in Cropping Systems
PLSC 324	Crop Ecophysiology
PLSC 345	Plants for Bioproducts
PLSC 352	Invasive Alien Plants: Biology and Control
PLSC 354	Forage Crops
PLSC 355	Cereal, Oilseed, and Pulse Crops
PLSC 365	Genetic Improvement of Crop Plants
PLSC 380	·
PLSC 400*	Individual Study
PLSC 470	•
PLSC 481	Disease of Field and Horticultural Crops
PLSC 491	•
PLSC 495	Integrated Crop Protection
PLSC 499	•
RENR 301*	
RENR 305	•
PLSC 324 PLSC 345 PLSC 352 PLSC 354 PLSC 355 PLSC 365 PLSC 380 PLSC 400* PLSC 470 PLSC 470 PLSC 481 PLSC 491 PLSC 495 PLSC 499 RENR 301*	Crop Ecophysiology Plants for Bioproducts Invasive Alien Plants: Biology and Control Forage Crops Cereal, Oilseed, and Pulse Crops Genetic Improvement of Crop Plants Principles of Plant Pathology Individual Study Physiology of Herbicidal Action Disease of Field and Horticultural Crops Biotechnology for Crop Improvement



RENR 314	Forest Soils
RENR 321	Tree Physiology
RENR 322	Forest Ecosystems
RENR 327	The Mosses of Alberta: Conservation and Identification
RENR 333	Wetland Sciences and Management
RENR 341	Soil Formation and Landscape Processes
RENR 350	Physical Hydrology
RENR 360	Soil and Water Conservation
RENR 364	Principles of Managing Natural Diversity
RENR 365	Ecology of Northern Landscapes
RENR 366	Restoration Ecology
RENR 401*	Topics in Renewable Resources
RENR 402A*	Directed Research in Renewable Resources
RENR 402B*	Directed Research in Renewable Resources
RENR 414	Agroforestry Systems
RENR 421	Advanced Tree Physiology
RENR 426	Geographical Information Systems Applications in Renewable Resources
RENR 430	Forest Resources Management
RENR 440	Disturbance Ecology
RENR 441	Soil Formation and Landscape Processes
RENR 442	Soil Biogeochemistry
RENR 443	Soil Physics
RENR 444	Soil Environmental Chemistry
RENR 445	Soil Fertility
RENR 446	Climates and Ecosystems
RENR 450	Environmentally Sustainable Agriculture
RENR 452	Forest Watershed Management
RENR 469	Biodiversity Analysis
RENR 480	Applied Statistics for Environmental Sciences
RENR 482	Soil Remediation
RENR 483	Waste Management and Utilization
RENR 495	Land Reclamation
RENR 496	Conservation Planning
RSOC 355	Rural Communities and Global Economics
RSOC 365	Sociology of Environment and Development
RSOC 375	Public Participation and Conflict Resolution
RSOC 400*	Special Topics
RSOC 450	Environmental Sociology
STAT 361	Sampling Techniques
STAT 368	Introduction to Design and Analysis of Experiments



Foundational Natural Sciences

(Minimum 15 credits from the list)

Course ID	Title
BIOCH***	Any Biochemistry Course Foundational to Agrology
BIOL 107	Introduction to Cell Biology
BIOL 108	Introduction to Biological Diversity
BIOL 201	Eukaryotic Cell Biology
BIOL 207	Molecular Genetics and Heredity
BIOL 208	Principles of Ecology
BIOL ###	Any Biology Course not listed under Introductory or Senior Agrology
CHEM 101	Introductory University Chemistry I
CHEM 102	Introductory University Chemistry II
CHEM 103	Introductory University Chemistry I
CHEM 105	Introductory University Chemistry II
CHEM 164	Organic Chemistry I
CHEM 241	Introduction to Inorganic Chemistry
CHEM 261	Organic Chemistry I
CHEM 263	Organic Chemistry II
EAS 100	Planet Earth
EAS 105	The Dynamic Earth Through Time
PHYS 124	Particles and Waves
PHYS 126	Fluids, Fields, and Radiation
PHYS 130	Wave Motion, Optics, and Sounds
PHYS 144	Newtonian Mechanics and Relativity
PHYS 146	Fluids and Waves
PHYS 230	Electricity and Magnetism
PHYS 244	Mechanics
PHYS 261	Physics of Energy
PHYS 281	Electricity and Magnetism

Mathematics or Statistics Courses

(Minimum of 3 credits selected from the list)

Course ID	Title
AREC 313	Statistical Analysis
MATH 100	Calculus I



MATH 101 Calculus II MATH 102 Applied Linear Algebra MATH 125 Linear Algebra I MATH 134 Calculus for the Life Sciences I MATH 136 Calculus for the Life Science II MATH 140 Calculus for the Physical Sciences I MATH 141 Calculus for the Physical Sciences II MATH 154 Calculus for Business and Economics I MATH 156 Calculus for Business and Economics II STAT 141 Introduction to Statistics STAT 151 Introductory Statistics for Business and Economics STAT 337 Biostatistics		
MATH 125 Linear Algebra I MATH 134 Calculus for the Life Sciences I MATH 136 Calculus for the Life Science II MATH 144 Calculus for the Physical Sciences I MATH 145 Calculus for the Physical Sciences II MATH 154 Calculus for Business and Economics I MATH 156 Calculus for Business and Economics II STAT 141 Introduction to Statistics STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 101	Calculus II
MATH 134 Calculus for the Life Sciences I MATH 136 Calculus for the Life Science II MATH 144 Calculus for the Physical Sciences I MATH 146 Calculus for the Physical Sciences II MATH 154 Calculus for Business and Economics I MATH 156 Calculus for Business and Economics II STAT 141 Introduction to Statistics STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 102	Applied Linear Algebra
MATH 136 Calculus for the Life Science II MATH 144 Calculus for the Physical Sciences I MATH 146 Calculus for the Physical Sciences II MATH 154 Calculus for Business and Economics I MATH 156 Calculus for Business and Economics II STAT 141 Introduction to Statistics STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 125	Linear Algebra I
MATH 144 Calculus for the Physical Sciences I MATH 146 Calculus for the Physical Sciences II MATH 154 Calculus for Business and Economics I MATH 156 Calculus for Business and Economics II STAT 141 Introduction to Statistics STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 134	Calculus for the Life Sciences I
MATH 146 Calculus for the Physical Sciences II MATH 154 Calculus for Business and Economics I MATH 156 Calculus for Business and Economics II STAT 141 Introduction to Statistics STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 136	Calculus for the Life Science II
MATH 154 Calculus for Business and Economics I MATH 156 Calculus for Business and Economics II STAT 141 Introduction to Statistics STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 144	Calculus for the Physical Sciences I
MATH 156 Calculus for Business and Economics II STAT 141 Introduction to Statistics STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 146	Calculus for the Physical Sciences II
STAT 141 Introduction to Statistics STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 154	Calculus for Business and Economics I
STAT 151 Introduction to Applied Statistics I STAT 161 Introductory Statistics for Business and Economics	MATH 156	Calculus for Business and Economics II
STAT 161 Introductory Statistics for Business and Economics	STAT 141	Introduction to Statistics
	STAT 151	Introduction to Applied Statistics I
STAT 337 Biostatistics	STAT 161	Introductory Statistics for Business and Economics
	STAT 337	Biostatistics

Communication or Equivalent Courses

(Minimum of 3 credits selected from the list)

Course ID	Title
ALES 204	Communication Fundamentals for Professionals
ENGL 108	Introduction to Language and Literature
ENGL 150	Introduction to English Studies
ENGL ###	Any English course with a reading and writing focus

Economics Courses

(Minimum of 3 credits selected from the list)

Course ID	Title
ECON 101	Introduction to Microeconomics
ECON 102	Introduction to Macroeconomics
ECON ###	Any foundational Economics course