

# UBC-Okanagan Approved Course List for Registration with the Agrology Profession in British Columbia

List includes courses from Earth and Environmental Sciences, Biology, Geography, Ecology and Evolutionary Biology programs

To be registered as an Articling Agrologist (AAg) leading to the Professional Agrologist (PAg) designation, applicants must have obtained:

A Bachelor's Degree with a science focus from a recognized university of which the course work must consist of the following:

a. A minimum of 8 entry level <u>foundational</u> knowledge courses, usually at the 100 or 200 level, in the subject matters listed on the Academic Worksheet. Applicants may have more than 1 entry level course in the same subject matter <u>and cannot double count in the other two sections of the worksheet</u>.

#### These can include courses in:

- biology
- biochemistry
- hydrology
- genetics
- chemistry
- earth sciences
- physical geography
- physics
- ecology

- microbiology
- geology

May include courses that are of benefit to the study of natural sciences or agrology:

- math
- statistics
- computer science
- economics
- communications/Writing

b. At least 20 courses in agricultural **or** natural sciences **or** agricultural **or** resource economics that relate directly to agrology (as defined by the *Agrologists Regulation, 2021)*.

c. At least 8 senior level courses (can come from within the above noted 20 course requirement) in agricultural **or** natural sciences **or** agricultural **or** resource economics that relate directly to agrology (as defined by the *Agrologists Regulation, 2021)*. Only senior courses (3rd year level and higher) taught by a Recognized University are recognized as senior level courses.

Courses that are considered eligible for meeting the coursework requirements for BCIA registration are listed in the following categories: Agrology, Foundational Natural Science; Mathematics or Statistics; Economics, Communications /Writing and Computer Science. *The Credentials Committee has the authority to limit how many foundational courses are accepted in each subject matter.* 

\*Course requires supporting documentation; may or may not be accepted depending on subject matter

This course listing is a guideline only; the Credentials Committee determines eligibility based on a comprehensive course by course review ensuring the academic worksheet is optimized while remaining within the minimum registration requirements.

## 100-200 Agrology Courses

Course ID	Title
BIOL 204	Vertebrate Structure and Function
BIOL 205	Comparative Invertebrate Zoology
BIOL 209	Fungi (Algae, Fungi and Bryophytes)
BIOL 210	Land Plants (Vascular Plants)
BIOL 250	Evolutionary Biology
EESC 205 (GEOG 205)	Introduction to Hydrology
EESC 212 (GEOG 200)	Atmospheric Environments
EESC 213	Introductory Forest Science and Management
EESC 222 (GEOG 222)	Geomorphology
FDSY 221 (GEOG 221)	Food Systems 1: System Thinking
GEOG 108	Earth Systems: Weather, Climate and Life
GEOG 109	Earth Systems: Landscape Dynamics
GEOG 200 (EESC 212)	Atmospheric Environments
GEOG 205 (EESC 205)	Introduction to Hydrology
GEOG 221 (FDSY 221)	Food Systems 1: System Thinking
GEOG 222 (EESC 222)	Geomorphology
GEOG 272	Cartography and Remote Sensing

### 300-400+ Agrology Courses

Course ID	Title
APBI 428	Integrated Pest Management
BIOC 307	Wine Biochemistry (Enology 1)
BIOC 310	Plant Biochemistry
BIOL 306	Ecology of Animals
BIOL 307	Limnology
BIOL 308	Population Biology
BIOL 309	Field Ecology of Plants and Soil
BIOL 314	Medical Microbiology
BIOL 330	Freshwater Microbiology
BIOL 341	Neurobiology
BIOL 354	Cell Physiology
BIOL 356	Comparative Animal Physiology
BIOL 357	Introduction to Entomology
BIOL 358	Plant Ecophysiology
BIOL 363	Developmental Biology
BIOL 364	Evolutionary Development
BIOL 366	Molecular Genetics
BIOL 371	Flora of British Columbia
BIOL 372	Field Ornithology
BIOL 375 (FWSC 375)	Flora and Fauna of Inland Waters
BIOL 380	Food and Industrial Microbiology
BIOL 381	Environmental Microbiology

BIOL 410 Plant-Microbe Interactions   BIOL 414 Advanced Field Ecology   BIOL 422 Conservation Biology   BIOL 422 Conservation Biology   BIOL 440* Honours Thesis   BIOL 440* Honours Thesis   BIOL 440* Dynamic Modelling of Human-Environment Systems   444(EESC Dynamic Modelling of Human-Environment Systems   444(EESC Directed Studies in Biology   BIOL 452 * Directed Studies in Biology   BIOL 460 Population Genetics   BIOL 461 Comparative Environmental Physiology   BIOL 462 Molecular Approaches to Scientific Problems   BIOL 468 Molecular Approaches to Scientific Problems   BIOL 503 * Integrated Approaches to Scientific Problems   BIOL 510 Plant-Microbe Interactions   BIOL 513 Conservation Biology   BIOL 514 Advanced Field Ecology   BIOL 522 * Directed Studies in Biology   BIOL 523 Directed Studies in Biology   BIOL 560 Population Genetics   BIOL 561 Aqueous Environmental Physiology   BIOL 562 Molecular Approaches in Ecology and Evolution   BIOL 568 Molecular Approaches in Ecology and Evolution   BIOL 568 Molecular Approaches in Ecology   BIOL	BIOL 401	Spatial Ecology
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	EESC 381 (GISC 381)	Fundamentals of Geographic Information Science II
EESC 413 Analytical Methods in Hydrology	EESC 402	Freshwater Resources
,	EESC 413	Analytical Methods in Hydrology

EESC 418*	Special Topics in Earth and Environmental Science
EESC 419*	Special Topics in Earth and Environmental Science
EESC 419 EESC 422 (GEOG 422)	Fluvial Geomorphology
EESC 422 (GEOG 422)	Tracers of Natural Processes
EESC 429	Contaminant Hydrogeology
EESC 431	Quaternary Glacial Environments
EESC 435	Fluvial Field Techniques
EESC 437 (GEOG 437)	Terrain Analysis
EESC 444 (EESC 544)	Dynamic Modelling of Human-Environment Systems
(BIOL 444)	
EESC 448 *	Directed Studies in Earth and Environmental Sciences
EESC 449 *	Honours Thesis
EESC 456	Soil Science
EESC 502	Environmetrics
EESC 512	Applied Data Analysis in Geosciences
EESC 544 (EESC 444)	Dynamic Modelling of Human-Environment Systems
(BIOL 444)	
EESC 550*	Research Seminar in Earth and Environmental Science
EESC 551 *	Special Topics in Earth and Environmental Sciences
EESC 552 *	Directed Readings in Earth and Environmental Sciences
EESC 599*	Masters Thesis
FWSC 375 (BIOL 375)	Flora and Fauna of Inland Waters
GEOG 301	Mechanisms of Global Change
GEOG 304 (EESC 304)	Anthropogenic Climate Change
GEOG 307	Advanced Biogeography
GEOG 314	Environmental Impact Assessment: Process, Regulation and Admin
GEOG 317	The Physical Environment of BC
GEOG 370	Introduction to Geographic Information Science
GEOG 380 (GISC 380)	Fundamentals of Geographic Information Science I
GEOG 381 (GISC 381)	Fundamentals of Geographic Information Science II
GEOG 414	Applied Climatology
GEOG 421	Geography of Food Systems
GEOG 422 (EESC 422)	Fluvial Geomorphology
GEOG 435	Wine Geographies
GEOG 437 (EESC 437)	Terrain Analysis
GEOG 466	Soil Science
GEOG 491*	Selected Topics in Geography
GEOG 498 *	Directed Studies in Geography
GISC 380 (GEOG 380)	Fundamentals of Geographic Information Science I
GISC 381 (GEOG 381)	Fundamentals of Geographic Information Science II
GISC 480	Practical Applications in GIS
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### Foundational Natural Science Courses

Course ID	Title

BIOL 116	Biology for Science Majors I
BIOL 125	Biology for Science Majors II
BIOL 200	Cell Biology
BIOL 201	Introduction to Evolution and Ecology
BIOL 228	Introductory Microbiology
BIOL 203	Introduction to Ecology
BIOL 265	Principles of Genetics
BIOL 311	Biochemistry I
BIOL 319	Biochemistry II
CHEM 111	Principles of Chemistry I
CHEM 113	Principles of Chemistry II
CHEM 121	Structural Chemistry
CHEM 123	Physical and Organic Chemistry
CHEM 201	Introduction to Physical Chemistry
CHEM 203	Introduction to Organic Chemistry
CHEM 204	Organic Chemistry
CHEM 211	Analytical Chemistry
CHEM 213	Organic Chemistry for Biological Sciences I
CHEM 214	Organic Chemistry for Biological Sciences II
CHEM 220	Atomic Structure and Molecular Bonding
CHEM 311	Instrumental Analytical Chemistry
EESC 101	Environmental Science
EESC 111	Earth Science
EESC 112	Environmental Earth Science
EESC 121	Earth History
EESC 200	Mineralogy
GEOG 207	Introduction to Biogeography
INDG 307	Traditional Ecological Knowledge
INDG 420	Indigenous Perspectives on Food, Place, Identity, and Biodiversity
PHYS 102	Electricity, Light, and Radiation
PHYS 111	Introductory Physics for the Physical Sciences I
PHYS 112	Introductory Physics for the Life Sciences I
PHYS 121	Introductory Physics for the Physical Sciences II
PHYS 122	Introductory Physics for the Life Sciences II

#### Mathematics

Course ID	Title
MATH 100	Differential Calculus with Applications to Physical Sciences and Engineering
MATH 101	Integral Calculus with Applications to Physical Sciences and Engineering
MATH 103	Integral Calculus with Applications to Life Sciences
MATH 200	Calculus III

#### **Calculus & Statistics**

Course ID	Title
BIOL 202	Introduction to Biostatistics
DATA 101	Making Predictions with Data
GEOG 271	Geographic Data Analysis
STAT 121	Elementary Statistics
STAT 230	Introductory Statistics

## Economics, Communications and Writing

Course ID	Title
BIO 313	Science Writing
ECON 101	Microeconomics
ECON 102	Macroeconomics
EESC 398	Technical Communication
ENGL 112	Strategies for University Writing