

University of Northern BC (UNBC) Approved Course List for Registration with the Agrology Profession in British Columbia

List includes courses from the Department in Biology, Geography, Environmental Science, Forest Ecology and Management, Outdoor Recreation and Conservation, and Wildlife and Fisheries.

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 202	Invertebrate Zoology
BIOL 204	Plant Biology
ENSC 201	Weather and Climate
ENSC 202 (ENVS 202)	Introduction to Aquatic Systems
ENVS 201	Introduction to Atmospheric Science
FSTY 201	Forest Plant Systems
FSTY 205	Forest Soils
FSTY 206	Forest Biology
FSTY 207	Terrestrial Ecological Classification
FSTY 208	Silvics
FSTY 209	Forest Biology and Silvics
GEOG 204	Introduction to GIS
GEOG 205	Cartography and Geomatics
GEOG 210	Geomorphology
NREM 100	Field Skills
NREM 203	Resource Inventories and Measurements
NREM 204	Introduction to Wildlife and Fisheries
NREM 210	Integrated Resource Management

300-400 Agrology Courses

Course ID	Title
BIOL 301	Systematic Botany
BIOL 302	Limnology
BIOL 303	Plant Physiology
BIOL 304	Plants, Society and the Environment
BIOL 307	Ichthyology and Herpetology
BIOL 308	Ornithology and Mammalogy
BIOL 311	Cell and Molecular Biology
BIOL 315	Animal Diseases and Parasites
BIOL 318	Fungi and Lichens
BIOL 321	Animal Physiology
BIOL 322	Entomology
BIOL 323	Evolutionary Biology
BIOL 325	Ecological Analysis
BIOL 404	Plant Ecology
BIOL 402	Aquatic Plants
BIOL 406	Fish Ecology
BIOL 409	Conservation of Aquatic Ecosystems
BIOL 410	Population and Community Biology
BIOL 411	Conservation Biology
BIOL 412	Wildlife Ecology
BIOL 413	Wildlife Management

BIOL 420 Animal Behaviour CHEM 302 Environmental Chemistry I FNGR 451 (ENSC 451) ENRC 451 (ENSC 451) ENPL 401 Environmental Law ENPL 401 Environmental Law ENPL 402 Terrain Assessment ENSC 307 Intro to Geochemistry ENSC 308 (ENVS 308) ENSC 308 (ENVS 308) ENSC 308 (ENVS 308) ENSC 312 (ENVS 312) ENSC 325 Soil Physics Processes & Environments ENSC 312 (ENVS 312) ENSC 402 Weather and Climate ENSC 404 Waste Management ENSC 406 (ENVS 406) Environmental Modelling ENSC 412 Air Pollution ENSC 413 Environmental Measurement and Analysis ENSC 412 Air Pollution ENSC 413 Environmental Measurement and Analysis ENSC 425 (ENSC 625) Climate Change and Global Warming ENSC 430* (NRES 430) Undergrad Thesis ENSC 451 (ENSC 651) Environmental and Geophysical Data Analysis ENSC 451 (ENSC 651) Environmental and Geophysical Data Analysis ENSC 452 Reclamation and Remediation of Disturbed Environments ENSC 652 (ENSC 425) ENSC 651 (ENSC 451) Groundwater Hydrology ENSC 651 (ENSC 451) FOR STY 307 Disturbance Ecology and Forest Health FSTY 307 Disturbance Ecology and Forest Health FSTY 307 Disturbance Ecology and Management FSTY 415 Forest Ecology and Management FS	BIOL 414	Fisheries Management
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GEOG 405 Fluvial Geomorphology GEOG 411 Quarternary and Surficial Geology GEOG 413 Advanced GIS GEOG 414 Weathering Processes GEOG 432 Remote Sensing GEOG 457 Advanced Remote Sensing GEOG 498* Special Topics	GEOG 357	Intro to Remote Sensing
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GEOG 413 Advanced GIS GEOG 414 Weathering Processes GEOG 432 Remote Sensing GEOG 457 Advanced Remote Sensing GEOG 498* Special Topics	GEOG 405	Fluvial Geomorphology
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GEOG 457 Advanced Remote Sensing GEOG 498* Special Topics	GEOG 414	Weathering Processes
GEOG 457 Advanced Remote Sensing GEOG 498* Special Topics	GEOG 432	Remote Sensing
GEOG 498* Special Topics	GEOG 457	
	GEOG 499 *	

NREM 333*	Field Applications in Resource Management
NREM 400	Natural Resources Planning
NREM 410	Watershed Management
NREM 413 (NREM 613)	Agroforestry
NREM 425 (FSTY 625)	Soil Formation and Classification
NREM 601	Plant Community Ecology
NREM 613 (NREM 413)	Agroforestry
NREM 625 (FRTY 425)	Soil Formation and Classification
NREM 720	Research Thesis
NREM 799	Plant Physiology
NRES 422	Undergraduate Report
NRES 430* (ENSC 430)	Undergrad Thesis
NRES 498*	Special Topics in Natural Resources and Environmental Studies
NRES 712	Spatial and Temporal Analyses
NRES 776	Advanced Stat Analyses for NRSci
NRES 801	Integrated Environmental Systems I

Foundational Natural Science Courses

Course ID	Title
BIOL 101	Introductory Biology I
BIOL 102	Introductory Biology II
BIOL 103	Introductory Biology I
BIOL 104	Introductory Biology II
BIOL 110	Introductory Ecology
BIOL 201	Ecology
BIOL 203	Microbiology
BIOL 210	Genetics
CHEM 100	General Chemistry I
CHEM 101	General Chemistry II
CHEM 200	Physical Chemistry I
CHEM 201	Organic Chemistry I
CHEM 202	Inorganic Chemistry I
CHEM 203	Organic Chemistry II
CHEM 204	Introductory Biochemistry
CHEM 220	Organic and Biochemistry
PHYS 100	Introduction to Physics
PHYS 101	Introduction to Physics I
PHYS 110	Introductory Physics I: Mechanics
PHYS 111	Introductory Physics II: Waves and Electricity
PHYS 115	General Introduction to Physics

Mathematics, Calculus & Statistics Courses

Course ID	Title	
ECON 205	Statistics for Business and the Social Science	
MATH 152	Calculus for Non-majors	
MATH 100	Calculus I	
MATH 101	Calculus II	
MATH 200	Calculus III	
STAT 240	Basic Statistics	
STAT 371	Probability and Statistics for Scientists and Engineers	

Economics, Communications/Writing Courses

Course ID	Title
ECON 100	Microeconomics
ENGL 170	Writing and Communication Skills
NRES 100	Communications in Natural Sciences and Environmental Studies