

## Vancouver Island University Approved Course List for Registration with the Agrology Profession in British Columbia

*List includes courses from the Departments of Biology, Fisheries and Aquaculture, Geography, and Geoscience.*

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 foundational 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 and cannot double count in the other two sections of the worksheet.

**These can include courses in:**

- |                      |  |
|----------------------|--|
| - biology            | - microbiology   |
| - biochemistry       | - geology  |
| - hydrology          |  |
| - genetics           | <b>May include courses that are of benefit to<br/>the study of natural sciences or agrology:</b> |
| - chemistry          | - math   |
| - earth sciences     | - statistics   |
| - physical geography | - computer science   |
| - physics            | - economics  |
| - ecology            | - 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**

<b>Course ID</b>	<b>Title</b>
BIOL 223	Botany
FISH 204	Aquatic Plant Ecology and Culture
FISH 205	Invertebrate Zoology
FISH 207	Invertebrate Identification and Biology
FISH 211	Life History and Management of Salmonids
FISH 222	Larval Rearing and Invertebrate Culture
FISH 227	Fish Husbandry
FISH 253	Fisheries Engineering I – Hydrology
FISH 254	Fisheries Engineering II - Hydraulics
FRST 132	Forest Ecology I: Ecosystems & Silvics
FRST 143	Forest Hydrology and Riparian Management
FRST 151	Forest Soils I
FRST 152	Forest Soils II
FRST 231	Silviculture I
FRST 233	Silviculture II
FRST 235	Forest Ecology II: Ecosystems & Management
FRST 242	Integrated Resource Management
FRST 256	Introduction to Forest Resource Management
GEOG 101	Environmental Geography
GEOG 211	Atmospheric Environments
GEOG 212	Earth Environments
GEOG 226	Introductory Spatial Analysis for the Environmental Sciences
GEOG 228	Spatial Analysis (now Maps and Mapping)
RMOT 200	B.C. Fisheries
RMOT 201	B.C. Wildlife
RMOT 206	Habitat Management

**300-400 Agrology Courses**

<b>Course ID</b>	<b>Title</b>
BIOL 305	Animal Physiology
BIOL 310	Invertebrate Zoology
BIOL 315	Parasitology
BIOL 320	Aquatic Ecosystems
BIOL 322	Terrestrial Ecosystems
BIOL 329	Vertebrates of BC
BIOL 332	Microbial Ecology
BIOL 334	Virology
BIOL 336	Bacterial Genetics
BIOL 337	Biochemistry and Physiology of Microbes
BIOL 341	Molecular Cell Biology
BIOL 342	Advanced Biochemistry
BIOL 351	Population and Community Ecology
BIOL 360	Intro to Animal Behaviour

BIOL 403 *	Current Topics in Biology
BIOL 415	Ecological Parasitology
BIOL 432	Applied Microbiology
BIOL 436	Pathogenic Microbiology
BIOL 443	Developmental Biology
BIOL 445	Molecular Genetics
BIOL 457	Biodiversity and Conservation Biology
FISH 321	Lake and Stream Ecosystems
FISH 322	Coastal and Estuarine Ecosystems
FISH 324	Ichthyology
FISH 327	Salmonid Husbandry
FISH 331	Advanced Fish Culture
FISH 341	Diseases of Fish and Shellfish
FISH 371 *	Aquaculture Practices I
FISH 372 *	Aquaculture Practices II
FISH 392 *	Project in Husbandry IV
FISH 453	Fish Habitat Assessment and Rehabilitation
FISH 490 *	Directed Studies
FISH 491 *	Undergraduate Research Project
GEOG 326	Remote Sensing
GEOG 328	Geographic Information Systems
GEOG 372	Climatology
GEOG 373	Biogeography
GEOG 374	Hydrology
GEOG 376	Geomorphology
GEOG 428	GIS Applications
GEOL 304	Hydrogeology
RMOT 306	Environmental Monitoring
RMOT 357	Research Methods in Natural Resource Management
RMOT 400	Fisheries Conservation and Management
RMOT 401	Wildlife Management

### Foundational Natural Sciences

Course ID	Title
BIOL 121	Introductory Zoology
BIOL 123	Introduction to Cellular and Molecular Biology
BIOL 200	Introduction to Cell Biology
BIOL 201	Principles of Biochemistry I
BIOL 202	Ecology
BIOL 210	Microbiology I
BIOL 212	Genetics
CHEM 141	Chemistry Fundamentals I
CHEM 142	Chemistry Fundamentals II
CHEM 231	Organic Chemistry I
CHEM 232	Organic Chemistry II

CHEM 311	Environmental Chemical Analysis
FISH 123	Concepts in Biology
GEOG 101	Environmental Geography
PHYS 111	Physics for the Life Sciences I
PHYS 112	Physics for the Life Sciences II
PHYS 121	Physics for the Physical Sciences I
PHYS 122	Physics for the Physical Sciences II

### **Mathematics, Calculus & Statistics**

<b>Course ID</b>	<b>Title</b>
GEOG 221	Statistical Methods in Geography
MATH 100	Calculus for Engineering and Physical Sciences I
Math 101	Calculus for Engineering and Physical Sciences II
MATH 121	Calculus I
MATH 122	Calculus II
MATH 181	Intro to Statistics
MATH 203	Biometrics
MATH 211	Statistics I

### **Economics, Communications and Writing**

<b>Course ID</b>	<b>Title</b>
GEOG 322	Geographic Communication
ENGL 115	University Writing and Research