

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:

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

b. At least 20 courses in natural sciences and/or agricultural and resource economics that relate directly to agrology (as defined by the *Agrologists Act 2003*).

c. At least 8 senior level courses (can come from within the above noted 20 course requirement) in natural sciences and/or agricultural and resource economics that relate directly to agrology (as defined in the *Agrologists Act, 2003*). 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 121 | Introductory Zoology |
| BIOL 223 | Botany |
| FISH 204 | Aquatic Plant Ecology and Culture |
| FISH 205 | Invertebrate Zoology |
| 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 |
| 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 |

300-400 Agrology Courses

| Course ID | Title |
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| BIOL 305 | Animal Physiology |
| BIOL 310 | Invertebrate Zoology |
| BIOL 315 | Parasitology |
| BIOL 320 | Aquatic Ecosystems |
| BIOL 322 | Terrestrial Ecosystems |
| 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 432 | Applied Microbiology |
| BIOL 436 | Pathogenic Microbiology |
| BIOL 443 | Developmental Biology |
| BIOL 445 | Molecular Genetics |
| 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 |

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| 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 |
| FRST 242 | Integrated Resource Management |
| GEOG 326 | Remote Sensing |
| GEOG 328 | Geographic Information Systems |
| GEOG 350 | Natural Resource Management |
| GEOG 372 | Climatology |
| GEOG 373 | Biogeography |
| GEOG 374 | Hydrology |
| GEOG 376 | Geomorphology |
| GEOG 428 | GIS Applications |
| GEOL 304 | Hydrogeology |

Foundational Natural Sciences

| Course ID | Title |
|-----------|--|
| 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 |
| PHYS 111 | Physics for the Life Sciences I |
| PHYS 112 | Physics for the Life Sciences II |

Mathematics, Calculus & Statistics

| Course ID | Title |
|-----------|---|
| 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

| Course ID | Title |
|------------------|---------------------------------|
| GEOG 322 | Geographic Communication |
| ENGL 115 | University Writing and Research |