# University of the Fraser Valley Approved Course List for Registration

# with the Agrology Profession in British Columbia

*List includes courses from the Departments of Biology, Geography, and Bachelor of Agricultural Science – Horticulture.*

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
- biochemistry
- hydrology
- genetics
- chemistry
- earth sciences
- hydrogeology
- 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 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 |
|---|---|
| AGRI 112 | Soil Fertility and Fertilizers |
| AGRI 123 | Horticulture Skills and Techniques for Fall |
| AGRI 124 | Introduction to Horticulture |
| AGRI 129 | Horticulture Skills and Techniques for Winter |
| AGRI 143 | Introduction to Agriculture |
| AGRI 163 | Pest Biology and Identification |
| AGRI 203 | Fundamentals of Pest Management |
| AGRI 204 | Introduction to Soils and Soil Fertility |
| AGRI 210* | Directed Studies in Agriculture |
| AGRI 212 | Introduction to On-Farm Food Safety, Quality and Security |
| AGRI 220 | Plants in the Landscape |
| AGRI 237 | Introduction to the Health and Nutrition Farm Animals |
| AGRI 238 | Equine Production and Management |
| AGRI 239 | Management and Production of Beef, Sheep and Goats |
| AGRI 254 | Ruminant Animal Health |
| AGRI 256 | Management and Production of Poultry and Swine |
| AGRI 270 | Global Issues in Agriculture |
| GEOG 101 | Weather and Climate (Discontinued) |
| GEOG 211 | Environmental Science (Discontinued) |
| GEOG 253 | Introduction to Geographic Information Systems |

**300-400 Agrology Courses**

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|---|---|
| AGRI 306 | Field Techniques in Pest Management |
| AGRI 311 | Sustainable Soil Management |
| AGRI 321 | Vegetable Crop Production: Science and Practice |
| AGRI 323 | Fruit Crop Production: Science and Practice |
| AGRI 324 | Greenhouse Production: Science and Practice |
| AGRI 327 | Nursery Production and Propagation: Science and Practice |
| AGRI 328 | Forage Crop Production: Science and Practice |
| AGRI 331 | Dairy Production and Management: Science and Practice |
| AGRI 371 | Sustainable Holistic Agriculture: Planning and Practices |
| AGRI 390 * | Directed Studies in Agriculture |
| AGRI 490 * | Directed Studies in Agriculture |
| BIO 307 | Anatomy and Diversity of Plants |
| BIO 308 | Plant Physiology |
| BIO 319 (GEOG 319) | Swamps and Bogs |
| BIO 330 | Plants and Animals of British Columbia |
| BIO 335 (GEOG 335) | Methods of Freshwater Ecology |
| BIO 360 | Insect Biology |
| BIO 370 | Introduction to Mycology |
| BIO 390 | Animal Behaviour |
| BIO 407 | Applied Biotechnology |

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|---|---|
| BIO 410 (GEOG 410) | Plant Ecology |
| BIO 421* | Special Topics in Applied Biology |
| BIO 426 | Environmental Microbiology |
| BIO 430 | Forest Ecology |
| ECON 361 | Environmental Economics |
| GEOG 302 | River Geomorphology |
| GEOG 303 | Environmental Hydrology |
| GEOG 308 | Climate Change and Variability |
| GEOG 311 | Global Resources and the Environment |
| GEOG 314 | Geography of Food |
| GEOG 315 | Soilscapes |
| GEOG 318 | Water Resources Management |
| GEOG 319 (BIO 319) | Swamps and Bogs |
| GEOG 331 | Environmental Assessment and Management |
| GEOG 335 (BIO 335) | Methods in Freshwater Ecology |
| GEOG 353 | GIS Applications |
| GEOG 410 (BIO 410) | Plant Ecology |
| GEOG 452* | Advanced Field Methods and Techniques (Physical Geography only) |
| GEOG 453 | Remote Sensing of the Environment |
| GEOG 457* | Advanced Field Studies in Geography (Physical Geography only) |

**Foundational Natural Science Courses**

| **Course ID** | **Title** |
|---|---|
| BIO 111 | Introductory Biology I |
| BIO 112 | Introductory Biology II |
| BIO 201 | Cell Biochemistry/Metabolism (was Cell Biology I) |
| BIO 202 | Cell Signaling/Gene Regulation (was Cell Biology II) |
| BIO 210 | Introduction to Ecology |
| BIO 220 | Genetics |
| CHEM 110 | Introductory Chemistry |
| CHEM 113 | Principles of Chemistry I |
| CHEM 114 | Principles of Chemistry II |
| CHEM 213 | Organic Chemistry I |
| CHEM 221 | Inorganic Chemistry |
| PHYS 101 | Introductory General Physics: Mechanics and Fluids |
| PHYS 105 | Heat, Waves and Optics |
| PHYS 111 | Mechanics |
| PHYS 112 | Electricity and Magnetism |

**Mathematics, Calculus & Statistics Courses**

| **Course ID** | **Title** |
|---|---|
| MATH 111 | Calculus I |
| MATH 112 | Calculus II |

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|---|---|
| MATH 118 | Calculus II for Life Sciences |
| STAT 104 | Introductory Statistics |
| STAT 106 | Statistics I |
| STAT 270 | Introduction to Probability and Statistics |

**Economics, Communications/Writing Courses (and Computer Science courses)**

| **Course ID** | **Title** |
|---|---|
| AGRI 142 | Agribusiness Principles (computer science type course) |
| CMNS 125 | Communicating Professionally to Academic and Workplace Audiences |
| CMNS 251 | Professional Report Writing |
| CMNS 257 | Environment: Science and Communication |
| CMNS 325 | Writing for the Sciences and Technologies |
| ECON 100 | Principles of Microeconomics |
| ECON 101 | Principles of Macroeconomics |
| GEOG 257 | Environmental Science and Communications |