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
- 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. If any courses at 1 credit they are bundled together to equal one 3 credit course.*

*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 111	Introduction to Soils
AGRI 112	Soil Fertility and Fertilizers
AGRI 123	Horticulture Skills and Techniques for Fall
AGRI 124	Introduction to Horticulture
AGRI 126	Agriculture Pests & Pesticide Licensing
AGRI 129	Horticulture Skills and Techniques for Winter
AGRI 130	Principles of Sustainable Agriculture Practices
AGRI 143	Introduction to Agriculture
AGRI 163	Pest Biology and Identification
AGRI 203(was AGRI 200)	Fundamentals of Pest Management
AGRI 204	Introduction to Soils and Soil Fertility
AGRI 205	Integrated Pest Management Techniques and Equipment
AGRI 210*	Directed Studies in Agriculture
AGRI 212(was AGRI 121)	Introduction to On-Farm Food Safety, Quality and Security
AGRI 220	Plants in the Landscape
AGRI 226	Turfgrass Production
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 247*	Enterprise Project: Part I
AGRI 248*	Enterprise Project: Part II
AGRI 254	Ruminant Animal Health
AGRI 256	Management and Production of Poultry and Swine
GEOG 101	Weather and Climate
GEOG 103	The Physical Environment
GEOG 201	Introduction to Climatology
GEOG 202	Geomorphology
GEOG 219	Biogeography
GEOG 251	Cartography I
GEOG 252(GEOG 352)	Explanation in Geography: Quantitative Methods
GEOG 253	Introduction to Geographic Information Systems

300-400+ Agrology Courses

AGRI 306(was AGRI 206)	Field Techniques in Pest Management
AGRI 311(was AGRI 211)	Sustainable Soil Management
AGRI 321(was AGRI 222)	Vegetable Crop Production: Science and Practice
AGRI 323(was AGRI 223)	Fruit Crop Production: Science and Practice
AGRI 324(was AGRI 224)	Greenhouse Production: Science and Practice
AGRI 327(was AGRI 227)	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(was AGRI 230)	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 310	Conservation Biology
BIO 312	Developmental Biology
BIO 319 (GEOG 319)	Swamps and Bogs
BIO 330	Plants and Animals of British Columbia
BIO 335 (GEOG 335)	Methods of Freshwater Ecology
BIO 357 (GEOG 357)	Conservation GIS
BIO 360	Insect Biology
BIO 370	Introduction to Mycology
BIO 390	Animal Behaviour
BIO 401	Molecular Biology
BIO 406	Advanced Genetics
BIO 407	Applied Biotechnology
BIO 409*	Directed Studies in Biology
BIO 410 (GEOG 410)	Plant Ecology
BIO 414	Genomics
BIO 420*	Special Topics in Biology
BIO 421*	Special Topics in Applied Biology
BIO 426	Environmental Microbiology
BIO 430	Forest Ecology
BIO 498*	Advanced Biological Topics
BIO 499*	Honours Research Thesis
ECON 361 (GEOG 361)	Environmental Economics
GEOG 300*	Special Topics in Geography
GEOG 302	River Geomorphology or Advanced Geomorphology
GEOG 303	Environmental Hydrology
GEOG 308	Climate Change and Variability
GEOG 311	Global Resources and the Environment or Environment and Resources
GEOG 315	Soilscapes OR Soil Process and Function
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 352 (GEOG 252)	Quantitative Methods in Geography
GEOG 353	GIS Applications
GEOG 357 (BIO 357)	Conservation GIS
GEOG 361 (ECON 361)	Environmental Economics
GEOG 400*	Advanced Topics in Geography
GEOG 401	Global Climatology
GEOG 402	Quaternary Geology & Geomorphology
GEOG 410 (BIO 410)	Plant Ecology
GEOG 417	Wetland Biogeography
GEOG 419	Paleoecology

GEOG 452* (GEOG 470)	Advanced Field Methods and Techniques (Physical Geography only)
GEOG 453	Remote Sensing of the Environment
GEOG 454	Geographic Data Analysis Modelling
GEOG 457*	Advanced Field Studies in Geography (Physical Geography only)
GEOG 458*	GIS Project
GEOG 470* (GEOG 452)	Advanced Field Studies in Geography (Physical Geography only)
GEOG 484*	Directed Studies
GEOG 493*	Research Project

Foundational Natural Science Courses – for Section 1 in the BCIA Academic Worksheet

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 203 (BIO 309)	Microbiology I
BIO 210	Introduction to Ecology
BIO 220	Genetics
BIO 309 (BIO 203)	Microbiology I
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
GEOG 102	Evolution of Earth's Surface
GEOG 116	Earth Rocks
GEOG 211	Environmental Science
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 – for Section 1 in the BCIA Academic Worksheet

Course ID	**Title**
MATH 104 (STAT 104)	Introductory Statistics
MATH 111	Calculus I
MATH 112	Calculus II
MATH 118	Calculus II for Life Sciences
MATH 270 (STAT 270)	Introduction to Probability and Statistics
STAT 104 (MATH 104)	Introductory Statistics
STAT 106	Statistics I
STAT 270 (MATH 270)	Introduction to Probability and Statistics
STAT 271	Introduction to Data Analysis and Statistical Modeling

STAT 307	Data Visualization
STAT 315	Applied Regression Analysis
STAT 330	Designs of Experiments
STAT 350	Survey Sampling

Economics, Communications/Writing Courses – for Section 1 in the BCIA Academic Worksheet

Course ID	**Title**
AGRI 142	Agribusiness Principles (computer science type course)
CMNS 125	Communicating Professionally to Academic and Workplace Audiences
CMNS 180	Introduction to Intercultural Communication
CMNS 235	Public Speaking
CMNS 251	Professional Report Writing
CMNS 257 (GEOG 257)	Environment: Science and Communication
CMNS 325	Writing for the Sciences and Technologies
ECON 100	Principles of Microeconomics
ECON 101	Principles of Macroeconomics
ENGL 105	Academic Writing
GEOG 257 (CMNS 257)	Environment: Science and Communications
MACS 130	Introduction to Digital Media and Communications