Thompson Rivers University Approved Course List for Registration with the Agrology Profession in British Columbia

List includes courses from the Departments of Natural Resource Science and Regenerative Agriculture

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.*

*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.

1000-2000 (100-200) Agrology Courses

Course ID	Title
AGSC 2200	Food Systems at the Local Level
BIOL 2280	Evolution and Ecology of Land Plants
BIOL 2290	Evolution of Animal and Body Plans
GEOG 2020	Weather, Climate and Global Environmental Change
GEOG 2050	Introduction to Hydrology
GEOG 2120	Geography
GEOG 2700	Introduction to Geographical Analysis
GEOG 2750 (NRSC 2230)	Geographic Information Systems
NRSC 1110	The Science and Management of Natural Resources
NRSC 1120	Dendrology 1
NRSC 1220	Dendrology 2
NRSC 2000	Introduction to the Study of Soils
NRSC 2100	Forest Ecology and Silvics 1
NRSC 2110	Forest Mensuration
NRSC 2200	Forest Ecology and Silvics 2
NRSC 2230 (GEOG 2750)	Geographic Information Systems
RGEN 1030	Biodiversity, Invasive Species, Watershed and Riparian Systems
RGEN 1050 + RGEN 2100*	On Farm Demonstration Research I (2 credits) + On Farm Demonstration Research II (1 credit) (combined - 1 agrology course)
RGEN 1060	Crop Diversification
RGEN 1070	Livestock Diversification
RGEN 1110	Human Resource Management and Land Resources
RGEN 1130	Range Ecology/Grazing Management
RGEN 1140	Introduction to Soils and Soil Health
RGEN 2010	Beef Nutrition and Herd Health
RGEN 2020	Sheep Production, Flock Health and Nutrition
RGEN 2030	Winter Forage Production
RGEN 2050*	Comprehensive Business and Operations
RGEN 2060	Beef Genetics and Technology in Agriculture
RGEN 2100* + RGEN 1050	On Farm Demonstration Research II (1 credit) + On Farm Demonstration Research I (2 credits) (combined - 1 agrology course)
WTTP 1711	Water Treatment I

3000-4000+ (300-400+) Agrology Courses

Course ID	Title
BIOL 3030	Population Biology
BIOL 3101	Animal Behaviour
BIOL 3110	Field Ornithology
BIOL 3230	Biochemistry
BIOL 3260	Field Botany
BIOL 3350	Molecular Genetics
BIOL 4020 (NRSC 3260)	Limnology

BIOL 4120	Evolution of Flowers
BIOL 4160	Principles of Conservation Biology
BIOL 4210	Microbial Physiology
CHEM 3010	Aqueous Environmental Chemistry
CHEM 3020	Atmospheric Environmental Chemistry
ECON 3710	Economics of the Environment
ECON 3740	Land Use Economics
ENVS 5000* (ENVS 5300*)	Environmental Science: Topics and Case Studies
ENVS 5020*	Advanced Topics
ENVS 5200*	Environmental Science 2: Conducting Science
ENVS 5300* (ENVS 5000*)	Environmental Science: Topics and Case Studies
ENVS 5480*	Directed Studies
ENVS 5990*	Master of Science Thesis
GEOG 3040	Environmental Climatology and Meteorology
GEOG 3050	Physical Hydrology
GEOG 3060	Groundwater Hydrology
GEOG 3070	Biogeography
GEOG 3080	Introduction to Geomorphology
GEOG 3100	Environment, Resources and Sustainability
GEOG 3630*	The Geography of Resource Industries (with agricultural focus only)
GEOG 3700	Field Course in Geography
GEOG 3740	Remote Sensing of the Environment
GEOG 3750	Applying Geographic Information Systems
GEOG 3770	GIS for Water Resources Systems Analysis
GEOG 3990*	Special Topics in Geography and Environmental Studies
GEOG 4050	Fluvial Geomorphology
GEOG 4060	Advances in Hydrology
GEOG 4480*	Directed Studies
GEOG 4740	Spatiotemporal Analysis
GEOG 4750	Advances in Geomatics
GEOG 4990*	Special Topics in Geography and Environmental Studies
NRSC 3000	Diversity and Ecology of the Vertebrates
NRSC 3000	Evolution and Diversity of the Vertebrates (effective 2025)
NRSC 3110	Grassland Ecology (was Range Ecology)
NRSC 3170	Ichthyology
NRSC 3200	Silviculture
NRSC 3210	Range Management
NRSC 3260 (BIOL 4020)	Limnology
NRSC 4020	Natural Resource Entomology
NRSC 4030	Natural Resource Pathology
NRSC 4040	Wildlife Management and Conservation 1: Theory and Principles
NRSC 4050	Wildlife Management and Conservation 2: Practice and Application
NRSC 4100	Fisheries Management
NRSC 4110	Watershed Management

NRSC 4130	Fire Ecology and Management
NRSC 4140	Natural Resource Policy and Planning
NRSC 4210	Conflict Resolution in the Natural Resources
NRSC 4230 *	Graduating Essay
NRSC 4300	Ecosystem Reclamation

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

Course ID	**Title**
BIOL 1110	Principles of Biology I
BIOL 1210	Principles of Biology 2
BIOL 2130	Cell Biology
BIOL 2131	Cell and Molecular Biology
BIOL 2160	Introduction to Microbiology
BIOL 2170	Introduction to Ecology
BIOL 2340	Introduction to Genetics
BIOL 3131	Introduction to Biochemistry
CHEM 1500	Chemical Bonding and Organic Chemistry
CHEM 1510	Fundamentals of Chemistry
CHEM 1520	Principles of Chemistry
CHEM 2120	Organic Chemistry 1
CHEM 2123	Organic Chemistry I
CHEM 2220	Organic Chemistry 2
CHEM 2223	Organic Chemistry II
GEOG 1000	Planet Earth – An Introduction to Earth System Science
GEOL 1110	Introduction to Physical Geology
GEOL 2391	Environmental Geology
PHYS 1100	Fundamentals of Physics 1
PHYS 1200	Fundamentals of Physics 2

Mathematics/Calculus, Statistics Courses – for Section 1 in the BCIA Academic Worksheet

Course ID	**Title**
BIOL 3000	Biometrics
MATH 1000	Pre-Calculus
MATH 1140	Calculus I
MATH 1150	Calculus for the Biological Sciences
MATH 1240	Calculus II
STAT 2000	Introduction to Statistics

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

Course ID	**Title**
CMNS 2300	Critical Thinking and Writing for Science and Technology
ECON 1900	Principles of Microeconomics

ENGL 1100	Introduction to University Writing
ENGL 1110	Critical Reading & Writing