

AGROECOLOGY B.S.

All students must meet the Degree and University Requirements.

All students must meet the Catamount Core Curriculum Requirements.

All students must meet the College Requirements.

Agroecology (AGR) is a degree that provides a foundation in the natural sciences with an emphasis on applying ecological principles to the production of horticulture or agronomic crops. Hands-on courses cover soils, plant pathology, entomology, and integrated farm management.

The focus of this program on Agroecology as opposed to simply Agriculture is intentional. The AGR curriculum includes many typical courses associated with traditional agriculture programs: plant science, introductory horticulture, soil science, entomology, plant pathology, etc. A focus on social, community, and environmental facets of agricultural production and its integration with livelihoods of farmers, farmworkers, consumers, and society is the differentiating component of our program from other institutions.

Vermont is a unique living laboratory of community-based agriculture and a long history of farm to plate advocacy. UVM, with its Food Systems Research Institute and Agroecology Institute, is uniquely positioned for students who want to study Agroecology with a focus on the future of farming and food systems.

UVM's 97-acre Horticulture Research and Education Center which includes the Catamount Educational Farm gives the program a hands-on and applied focus with multiple opportunities for student to engage in research and get involved with practical projects.

CORE MAJOR REQUIREMENTS

Requirement Description		Credits
ENGL 1001	Written Expression	3
BIOL 1400 & BIOL 1450	Principles of Biology 1 and Principles of Biology 2	4
or BCOR 1400 & BCOR 1450	Exploring Biology 1 and Exploring Biology 2	
CHEM 1400 & CHEM 1450	General Chemistry 1 and General Chemistry 2	4
CHEM 1100	Outline: General Chem w/lab	4
or CHEM 1500 & CHEM 1550	Organic Chemistry for Majors 1 and Organic Chemistry for Majors 2	
MATH 1034	Pre-Calculus Mathematics	3
or MATH 1077	Exploring Modern Mathematics	
or MATH 1212	Fundamentals of Calculus I	

or MATH 1234	Calculus I	
NR 2030	Ecology, Ecosystems & Environ	3
BCOR 2100	Ecology and Evolution	4
STAT 1110	Elements of Statistics	3
or STAT 1410	Basic Statistical Methods 1	
ALE 1100 & ALE 1150	Home & Garden Horticulture and Home & Garden Horticulture Lab	3
ALE 1210	Intro to Agroecology	3
ALE 1370	Intro to Ecological Planning	3
ALE 2060	Entomology & Pest Mgmt	4
ALE 2120	Weed Ecology & Management	3
ALE 2170	Plant Pathology	4
ALE 2380	Commercial Plant Propagation	4
ALE 2610	Fundamentals of Soil Science	4
ALE 2620	Soil Fertility & Conservation	3
ALE 2810	Prof Dev: Ag, Landscape, & Env	1
ALE 2991	Internship	1-6
or ALE 3100	Diversified Farm Operations	
ALE 3080	Agricultural Policy and Ethics	3
ALE 3090	Diversified Farm Planning	3
ALE 3120	Advanced Agroecology	4
CDAE 1610	Principles of Comm Dev Econ	3
CDAE 2660	Intro to Comm Entrepreneurship	3
PBIO 2040	Plant Physiology	4
Choose at least 12 credits of 2000-level or higher electives		
ALE 2200	Cold Climate Viticulture	3
ALE 2240	Sust Veg Crops Production	3
ALE 2270	Greenhouse Operations & Mgmt	4
ALE 2370	Landscape Design Fundamentals	3
ALE 2371	Landscape Design Studio	3
ALE 2430	Forage and Pasture Mgmt	4
ALE 2540	Composting Ecology & Mgmt	3
ALE 3100	Diversified Farm Operations	6
ALE 3210	Sustainable Orchard Management	3
ALE 3320	Biological Control	3

ALE 3380	Ecological Landscape Design	4
ALE 3610	Soil Morph and Land Use	3
ALE 3640	Chemistry of Soil & Water	4
ALE 3680	Soil Ecology	4
ALE 3690	Soil/Water Pollution/Bioremed	3
ALE 2560	Permaculture	3

RESTRICTIONS

Ineligible Minors: Agroecology