

ECOLOGICAL LANDSCAPE PLANNING AND DESIGN 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.

The Ecological Landscape Planning and Design (ELPD) program emphasizes the integration of ecological principles into design and planning while promoting a shift from engineered solutions to ecosystem-based approaches. It offers nature-based solutions to climate change challenges.

This degree provides a foundation in the natural sciences and design skills with an emphasis on the application of ecological principles to the management of natural and human landscape. Disciplinary synthesis is attained through advanced courses in soils, plant identification and management, and advanced design. Concentrations in Horticulture and Landscape Planning and Design allow students to specialize in management of plants and landscapes and the design of those spaces using an ecological framework.

Students graduating with a B.S. in ELPD are prepared to become practitioners through professional development and internship experiences available in the program.

CORE MAJOR REQUIREMENTS

Requirement Description		Credits
ENGL 1001	Written Expression	3
BIOL 1450	Principles of Biology 2	4
or BCOR 1450	Exploring Biology 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
or BCOR 2100	Ecology and Evolution	
STAT 1110	Elements of Statistics	3
or STAT 1410	Basic Statistical Methods 1	
ALE 1100	Home & Garden Horticulture	3
ALE 1150	Home & Garden Horticulture Lab	1
CDAE 1010	Drafting Design I	3
ALE 1370	Intro to Ecological Planning	3
ALE 2250	Woody Landscape Plants	4

ALE 2260	Herbaceous Landscape Plants	3
ALE 2370	Landscape Design Fundamentals	3
ALE 2371	Landscape Design Studio	3
ALE 2991	Internship	3
or ALE 2993	Independent Study	
or ALE 2995	Undergraduate Research	
ALE 2610	Fundamentals of Soil Science	4
ALE 2810	Prof Dev: Ag, Landscape, & Env	1
ALE 3030	Planting Design Studio	3
ALE 3380	Ecological Landscape Design	4

HORTICULTURE CONCENTRATION (18 CREDITS)

Requirement Description		Credits
Choose a minimum or 18 credits from the following options:		
ALE 1210	Intro to Agroecology	3
ALE 1360	Illustrating Botanicals	3
ALE 2060	Entomology & Pest Mgmt	4
ALE 2060	Entomology & Pest Mgmt	4
ALE 2120	Weed Ecology & Management	3
ALE 2170	Plant Pathology	4
ALE 2270	Greenhouse Operations & Mgmt	4
ALE 2380	Commercial Plant Propagation	4
ALE 2560	Permaculture	3
ALE 2620	Soil Fertility & Conservation	3
ALE 3400	Landscape Construction & Tech	3
CHEM 1100	Outline: General Chem w/lab	4
PBIO 2040	Plant Physiology	4

LANDSCAPE PLANNING & DESIGN CONCENTRATION (18 CREDITS)

Requirement Description		Credits
Choose a minimum or 18 credits from the following options:		
ALE 1210	Intro to Agroecology	3
ALE 1360	Illustrating Botanicals	3
ALE 2560	Permaculture	3
ALE 2620	Soil Fertility & Conservation	3
ALE 3400	Landscape Construction & Tech	3

ALE 3450	Urban Landscape Design Studio	3
ALE 3500	Landscape Planning Global	3
CDAE 1170	Digital Illustration	3
CDAE 2010	Drafting Design II	3
CDAE 3760	Community Design Studio	3
CHEM 1100	Outline: General Chem w/lab	4
NR 2430	Intro to Geog Info Systems	3

RESTRICTIONS

Ineligible Minors: Ecological Landscape Horticulture