

FORESTRY PROGRAM

<http://www.uvm.edu/rsenr/?Page=undergraduate/forestry.html&SM=undergradmenu.html> (<http://www.uvm.edu/rsenr/?Page=undergraduate/forestry.html&SM=undergradmenu.html>)

The Forestry Major trains students to meet the needs of the 21st century, which include managing forests for resilience, adaptation, and climate mitigation. The program attracts students who want a career working outdoors, excel at math and science, learn by doing, and can embrace both the fundamentals of traditional forestry and emerging perspectives in the field. The Forestry major provides students with an education in ecologically responsible forestry, emphasizing the complex landscapes of the northeastern United States, while also stressing global context and change. Students develop the ability to coordinate and manage all aspects of sustainable forestry through an education that combines a strong foundation in natural and social sciences with hands-on field classes, internships, research experience, and forest management projects.

MAJORS

FORESTRY MAJOR

Forestry B.S. (<http://catalogue.uvm.edu/undergraduate/rubensteinschool/forestry/forestrybs/>)

MINORS

FORESTRY MINOR

Forestry (<http://catalogue.uvm.edu/undergraduate/rubensteinschool/forestry/forestryminor/>)

Courses

FOR 001. SU: Forest Conservation. 3 Credits.

Introduction to the ecology and management of American forests: forest distribution, ownership, and ecological factors, species interactions, multi-resource management goals, and silvicultural practices. Cannot be taken by Junior/Senior-level Rubenstein School of Environment and Natural Resources students.

FOR 021. Dendrology. 0 or 4 Credits.

Classification, silvical characteristics, and identification features of native and introduced trees and shrubs.

FOR 090. Internship. 1-3 Credits.

On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

FOR 092. Independent Study. 1-18 Credits.

A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

FOR 095. Special Topics. 1-18 Credits.

See Schedule of Courses for specific titles.

FOR 111. Nat Res Ecol and Assessment 1. 0 or 4 Credits.

Basic, essential field and assessment skills; knowledge needed in upper-level classes and jobs in forestry, wildlife, fisheries, or natural resources.

FOR 112. Nat Res Ecol and Assessment 2. 4 Credits.

Introduces concepts and skills important for assessing forest ecosystem structure and functioning to inform forest management and other natural resource conservation decisions.

FOR 122. Forest Ecosystem Analysis. 4 Credits.

An integrated field course to investigate, through quantification and interpretation, the flora, fauna, and abiotic components (soils, physiography, water, and microclimate) of a selected forest ecosystem. Prerequisites: FOR 121, NR 140.

FOR 146. Remote Sensing of Natural Res. 0 or 3 Credits.

Examinations of the earth's surface from aerial photographs and satellite imagery. Emphasis is on image interpretation, classification, change detection, multivariate analysis (e.g. principal components analysis). Prerequisite: Sophomore standing. Cross-listed with: NR 146, GEOG 185.

FOR 190. Internship. 1-18 Credits.

On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

FOR 191. Forestry Work Practicum. 1-9 Credits.

Supervised work experience in forest resource area. Credit arranged.

FOR 192. Forestry Work Practicum. 1-9 Credits.

Supervised work experience in forest resource area.

FOR 193. Independent Study. 1-18 Credits.

A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

FOR 195. Special Topics. 1-18 Credits.

Readings, investigations, and lectures in selected forest resource subjects.

FOR 197. Teaching Assistantship. 1-3 Credits.

Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

FOR 198. Undergraduate Research. 1-18 Credits.

Undergraduate student work on individual or small research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

FOR 223. Multi-Resource Silviculture. 0 or 4 Credits.

Theory and application of forest stand maintenance/manipulation for forest ecosystem sustainability. Topics: Silvics, regeneration, tree improvement, protection, stand structure/dynamics/tending, and multi-resource perspectives. Prerequisite: NR 103.

FOR 228. Ecosystems Ecology. 3 Credits.

Examination of the structure and function of terrestrial ecosystems focusing on carbon and nutrient cycles. Laboratory sessions involve spatial modeling and data analysis. Prerequisites: NR 103, BCOR 102, PSS 161, or Graduate student standing. Cross-listed with: NR 228.

FOR 233. Management of Forest Woodlots1. 3 Credits.

Introduction to the knowledge and skills required for serving forest management needs of small properties in New England and beyond. Prerequisite: FOR 223.

FOR 272. Sustain Mgmt Forest Ecosys. 0 or 4 Credits.

Principles of long-term planning and plan implementation in support of sustainable forestry; Adaptive management; biodiversity and ecosystem health; major management planning project. Prerequisites: FOR 122, NR 205, FOR 223.

FOR 290. Internship. 1-18 Credits.

On-site supervised work experience combined with a structured academic learning plan directed by a faculty member or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion.

FOR 291. Undergraduate Research. 1-18 Credits.

Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Findings submitted in written form as prescribed by department. Offered at department discretion Prerequisite: Senior standing.

FOR 292. Undergraduate Research. 1-18 Credits.

Undergraduate student work on individual or small research projects under the supervision of a faculty member, for which credit is awarded. Findings submitted in written form as prescribed by department. Offered at department discretion Prerequisite: Senior standing.

FOR 293. Independent Study. 1-18 Credits.

A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

FOR 295. Advanced Special Topics. 1-18 Credits.

Advanced special topics courses or seminars in forestry beyond the scope of existing formal courses. Prerequisites: Minimum Junior standing; Instructor permission.

FOR 297. Teaching Assistantship. 1-3 Credits.

Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

FOR 299. Honors. 1-6 Credits.

Honors project dealing with the biology and/or management of forest ecosystems. See Program Chair.