FORESTRY (FOR)

Courses

FOR 001. 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 RSEN students.

FOR 013. Intro to Wildlife Tracking. 1 Credit.
This outdoor course is designed to introduce the student to wildlife track identification and analysis at the UVM Jericho Research Forest. Cross-listed with: WFB 013.

FOR 014. Wildlife Trail Analysis. 1 Credit.
This outdoor course is designed to introduce the student to analysis and interpretation of wildlife trails at the UVM Jericho Research Forest. Cross-listed with: WFB 014.

FOR 015. Wildlife Track Analysis. 1 Credit.
This course introduces students to the details and clues left inside animal tracks including major body movements including speed, changes of direction and head position. Cross-listed with: WFB 015.

FOR 021. Dendrology. 0 or 4 Credits.
Classification, silvical characteristics, and identification features of native and introduced trees and shrubs.

FOR 073. Small Woodland Management. 3 Credits.
Concepts of forest ecology, resource inventory, cultural practices, and multiple use management for small woodland areas.

FOR 081. Forestry Seminar. 1 Credit.
Readings and discussions introducing current issues in forestry. Prerequisite: First-Year/Sophomore standing in Natural Resources.

FOR 121. Forest Ecology Laboratory. 0 or 2 Credits.
Application of ecological principles in the analysis of forest communities. Prerequisite: NR 025; a course in tree identification; previous or concurrent enrollment in NR 103.

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. Prerequisite: FOR 121, NR 140.

FOR 146. Remote Sensing of Natural Res. 0 or 3 Credits.
Cross-listed with: NR 146, GEOG 185. Identification, interpretation, measurement, and mapping of natural resources from aerial photographs and satellite imagery. Labs include air photo interpretation and digital image analysis. Prerequisites: Junior standing. Alternate years.

FOR 152. Forest Resources Values. 3 Credits.
History, methods, and current issues associated with the nonmarket and market values of forest-based resources, including aesthetics, wildlife, recreation, water, and timber. Prerequisites: EC 012 or CDAE 061. Cross-listed with: PRT 152.

FOR 182. Advanced Forestry Seminar. 1 Credit.
In-depth examination of contemporary issues in forestry. Prerequisite: Junior/Senior standing in Forestry. Credit arranged.

FOR 185. Undergrad Special Topics. 0-6 Credits.
Readings, investigations, and lectures in selected forest resource subjects. Prerequisite: Instructor permission. Credit arranged.

FOR 191. Forestry Work Practicum. 1-9 Credits.
Supervised work experience in forest resource area. Prerequisite: Instructor permission. Credit arranged.

FOR 222. Advanced Silviculture. 0 or 3 Credits.
Scientific basis and contemporary status of silviculture practices. Prerequisite: FOR 223; permission. Alternate years, 2000-01.

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. Prerequisites: NR 025, NR 103, FOR 121.

FOR 225. Tree Structure & Function. 3 Credits.
Basic anatomy and physiology of trees and other woody plants, emphasizing their unique structural and physiological adaptations to the environment. Prerequisite: Permission.

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: CHEM 031, CHEM 032, NR 103, NR 143 or NR 146, or Instructor permission. Cross-listed with: NR 228.

FOR 235. Forest Ecosystem Health. 4 Credits.
Forest health is a broadly defined, emerging discipline in forestry and ecology that examines the agents and processes affecting tree and forest decline. Pre/co-requisites: NR 103, BIOL 001 and BIOL 002 or PBIO 004, MATH 009, FOR 021, preferred FOR 121.

FOR 237. Sustainable 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. Prerequisite: FOR 122, NR 205; concurrent or prior enrollment in FOR 223, or Graduate standing.

FOR 275. Forest Watershed Management. 0 or 3 Credits.
Concepts of forest hydrology and forest watershed management; emphasis on natural processes and impacts of quantity, quality, and seasonal distribution of flow from watersheds. Prerequisites: NR 102; Junior standing; or Instructor permission.

FOR 285. Advanced Special Topics. 0-6 Credits.
Advanced special topics courses or seminars in forestry beyond the scope of existing formal courses. Prerequisite: Graduate or advanced undergraduate standing; Instructor permission. Credit as arranged.
FOR 291. **Senior Research. 3 Credits.**
Work on research problem under direction of a staff member. Findings submitted in written form as prescribed by department. Prerequisites: Senior standing; Instructor permission.

FOR 292. **Senior Research. 3 Credits.**
Work on research problem under direction of a staff member. Findings submitted in written form as prescribed by department. Prerequisites: Senior standing; Instructor permission.

FOR 299. **Honors. 1-6 Credits.**
Honors project dealing with the biology and/or management of forest ecosystems. Prerequisite: By application only. See Program Chair.