FOREST RESOURCES AND CONSERVATION

Course Search
Not all courses are offered every semester. Refer to the schedule of courses for each term’s specific offerings.
More Info

Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.

Courses

FNR 3131C Dendrology/Forest Plants 3 Credits
Provides a basic understanding of the classification, nomenclature, morphology, ecological relationships, associations and uses of the major forest tree and shrub species of North America.
Prereq: refer to the department

FNR 3410C Natural Resource Sampling 3 Credits
Prereq: STA 2023

FNR 4070C Environmental Education Program Development 3 Credits
A comprehensive approach to program development, from needs assessment to evaluation, are applied to non-formal environmental opportunities. Existing and developing programs are analyzed, with emphasis on the role of participation and indicators in meeting environmental objectives. Required field trips.
Prereq: junior standing

FNR 4343C Forest Water Resources 3 Credits
Watershed hydrology, balances and models. Water quality parameters, processes and loading. Ecosystem and watershed functions. Watershed resources management
Prereq: SWS 3022 and SWS 3022L, or the equivalent
Coreq: FNR 4343L

FNR 4345 Models for Water Resources 1 Credit
Examination of stand and watershed hydrologic models, model development, calibration, scenario testing and interaction with actual hydrologic models.
Coreq: FNR 4343C

FNR 4461 Spatial Models and Decision Analysis 3 Credits
Concepts and applications of environmental modeling in a spatial context using descriptive and prescriptive tools and spatial reasoning.
Prereq: FOR 3434C or the equivalent, basic statistics or instructor permission

FNR 4623C Integrated Natural Resource Management 3 Credits
An integrative approach to the study of forest resource management for the production of multiple products, such as timber, recreation, wildlife, rangeland, utilizing the case study approach.
Prereq: refer to the department

FNR 4624C Field Operations for Management of Ecosystems 3 Credits
Covers the common operations utilized by natural resource managers to manipulate ecosystems to reach a goal (commodity production, ecological enhancement, aesthetics, recreational opportunities, etc.). Addresses the use of heavy machinery, herbicides and prescribed fire; and the regulations, contracting markets and safety concerns governing each.
Prereq: FOR 3153C and FNR 3410C or WIS 4954C or FOR 3162C

FNR 4660 Natural Resource Policy and Economics 3 Credits
Factors in evolution of forest, range, and wildlife natural resources administration and policies in the United States; policy components; policy formation implementation, change processes; and economic criteria for evaluating the effectiveness of policies.
Prereq: junior or senior standing

FOR 2662 Forests for the Future 3 Credits
Examines current environmental issues that impact individual, community and institutional decisions about North American forest resources. Each issue is reviewed with a framework that uses human behavior, policy options and media messages. Students are expected to understand the issues and to discuss and analyze the major social and ecological variables affecting each issue. (S) (WR)
General Education - Social Science
WR6

FOR 3004 Forests, Conservation and People 3 Credits
A general background course for non-FRC students interested in management, use and conservation of forest resources. Topics include resource description, historical perspectives, current issues, forest biology and management principles. (B)
General Education - Biological Science

FOR 3153C Forest Ecology 3 Credits
Ecological principles and their application to the management of forests; major sections include tree population, forest community dynamics and ecosystem processes. (B)
General Education - Biological Science

FOR 3162C Silviculture 4 Credits
Principles governing establishment, treatment and control of forest stands; natural and artificial regeneration systems; intermediate cuttings and cultural operations.
Prereq: FOR 3153C

FOR 3200C Foundations of Natural Resources and Conservation 3 Credits
Overview of current and historical views of forest conservation, utilization and policy; principles of forest biology, ecology, Silviculture and management relevant to future courses and careers; basic field research, communications and computer skills.
Prereq: SFY or instructor permission

FOR 3202 Society and Natural Resources 3 Credits
Local-to-global and individual-to-institutional perspectives on natural resource values, sustainability, diversity, and social change with consideration of potential paths for working with complex human and natural resource systems. (S)
General Education - Social Science
FOR 3162C and ECO 2023, or the equivalents

FOR 3214 Fire Ecology and Management
Detailed study of the role, occurrence and function of wildland fires in natural ecosystems and the use of prescribed burning to simulate those functions. Key topics include factors that influence natural fires, effects of fires on the environment, management and control of wildfires, and the use of prescribed burning. Students will plan and conduct several prescribed burns.
Prereq: FOR 3153C or PCB 3034C or PCB 4044C, or the equivalent

FOR 3214L Fire Ecology and Management Laboratory
Laboratory to assess, design and participate in the application of prescribed fire in forest ecosystem research and management.
Coreq: FOR 3214 encouraged strongly

FOR 3342C Tree Biology
Studies tree structure and function with relationships to forest environments and forestry practices.
Prereq: BOT 2010C or BSC 2011C

FOR 3430C Forest Mensuration
Forest resource measurements, log and tree content estimation, forest inventory techniques, and stand growth and yield.
Prereq: FNR 3410C or the equivalent

FOR 3434C Forest Resources Information Systems
Introduces the concepts, principles and applications of geographic information systems, remote sensing and global positioning systems that emphasize applications in forest resource management.

FOR 4020 Seminar in Contemporary Issues in Forest Resources and Conservation
Seminar using the study of contemporary issues in forest resources and conservation to build critical thinking and communication, leadership, presentation, and interview skills.
Prereq: 4FY status or instructor permission

FOR 4060 Global Forests
Overview of important international issues and developments related to forest resource use and tree management systems in a wide variety of contexts.
Prereq: 4FY or higher

FOR 4090C Urban Forestry
Introduces the nature, scope and components of the urban forest, including biology, culture, protection and aspects of management, planning and policy.
Prereq: 4FY or higher

FOR 4110 Ecology and Restoration of Longleaf Pine Ecosystems
History, structure, importance, ecology, restoration and management techniques, ownership patterns and policy implications.
Prereq: FOR 3153C or PCB 3034C or PCB 4044C, or the equivalent

FOR 4621 Forest Economics and Management
Principles of forest management for timber, non-timber and timberland valuation: decision analysis, management plans, forest regulation and harvest scheduling.
Prereq: FOR 3162C and ECO 2023, or the equivalents

FOR 4624C Forest Health Management
Integrated, tree- and forest-oriented study of forest health emphasizing the ecological and economic roles of the biotic agents and abiotic factors that incite dysfunction and the biological and ecological basis for the maintenance of forest health through integrated management of these agents and the forest.
Prereq: 4 FY or higher

FOR 4664 Sustainable Ecotourism Development
Interdisciplinary and applicable study of the tools and techniques managers and planners use to provide sustainable ecotourism opportunities in Florida and worldwide. Topics include integrating ecotourism with other resource uses, landscape level ecotourism planning, sustainable community development, minimizing and monitoring ecotourism impacts, and creating a diversity of ecotourism opportunities.

FOR 4854 Agroforestry
Concepts and principles of agroforestry, including its complexity and diversity; improved agroforestry techniques in temperate and tropical zones, recent research problems and methodologies of agroforestry research, and the potentials of agroforestry in land management and development.
Prereq: 4FY or 4AG

FOR 4900 Supervised Extension Experience in Forest Resources and Conservation
Firsthand, authentic extension experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

FOR 4905 Individual Study in Natural Resources
Individual study of a selected topic related to forest resources and conservation as contracted with the instructor at the start of the term.

FOR 4911 Supervised Research in Forest Resources and Conservation
Firsthand, authentic research in forest resources and conservation under the supervision of a faculty member. Projects may involve inquiry, design, investigation, scholarship, discovery or application. (S-U)

FOR 4915 Honors Thesis Resrch
Honors Thesis Resrch.

FOR 4934 Topics in Natural Resources
1-4 Credits
Topics in forestry, wood science, range, recreation, wildlife and fisheries. Topics include special issues and in-depth study of topics not in other courses.

FOR 4941 Internship in Natural Resources
1-4 Credits
Supervision by a faculty member and a post-internship report are required. (S-U)

FOR 4944 Internship in Natural Resources
1-4 Credits
Firsthand, authentic experiences in agricultural and life sciences under the supervision of a faculty member. Projects may involve program planning, development, implementation, and evaluation. (S-U)

FOR 4950 Topics in Natural Resources
3 Credits
Honors Thesis Resrch.

FOR 4954 Agroforestry
Concepts and principles of agroforestry, including its complexity and diversity; improved agroforestry techniques in temperate and tropical zones, recent research problems and methodologies of agroforestry research, and the potentials of agroforestry in land management and development.
Prereq: 4FY or 4AG

FOR 4959 Individual Study in Natural Resources
1-4 Credits
Individual study of a selected topic related to forest resources and conservation as contracted with the instructor at the start of the term.

FOR 4964 Sustainable Ecotourism Development
Interdisciplinary and applicable study of the tools and techniques managers and planners use to provide sustainable ecotourism opportunities in Florida and worldwide. Topics include integrating ecotourism with other resource uses, landscape level ecotourism planning, sustainable community development, minimizing and monitoring ecotourism impacts, and creating a diversity of ecotourism opportunities.

FOR 4965 Agroforestry
Concepts and principles of agroforestry, including its complexity and diversity; improved agroforestry techniques in temperate and tropical zones, recent research problems and methodologies of agroforestry research, and the potentials of agroforestry in land management and development.
Prereq: 4FY or 4AG

FOR 4970 Topics in Natural Resources
3 Credits
Individual study of a selected topic related to forest resources and conservation as contracted with the instructor at the start of the term.

FOR 4974 Agroforestry
Concepts and principles of agroforestry, including its complexity and diversity; improved agroforestry techniques in temperate and tropical zones, recent research problems and methodologies of agroforestry research, and the potentials of agroforestry in land management and development.
Prereq: 4FY or 4AG

FOR 4980 Topics in Natural Resources
3 Credits
Individual study of a selected topic related to forest resources and conservation as contracted with the instructor at the start of the term.

FOR 4990 Topics in Natural Resources
1-4 Credits
Topics in forestry, wood science, range, recreation, wildlife and fisheries. Topics include special issues and in-depth study of topics not in other courses.

FOR 4991 Internship in Natural Resources
1-4 Credits
Supervision by a faculty member and a post-internship report are required. (S-U)

Prereq: undergraduate coordinator permission