Courses

**FOWS 1010 INTRODUCTION TO RENEWABLE NATURAL RESOURCES (1)**
LEC. 1. Introduction to the wealth and breadth of renewable natural resources in the state, region, nation, and world. Speakers cover topics in forestry, wildlife, water, and soil. Fall, Spring.

**FOWS 2033 INTRO TO ENVIRON EDUCATION (3)**
LEC. 3. Students will learn about the historical and theoretical foundations of environmental education while participating in experiential learning exercises.

**FOWS 2060 INTRODUCTION TO FORESTED LANDSCAPES (2)**
LEC. 2. Pr. BIOL 1020 or BIOL 1027. This course will serve as an introduction to forest tree biology, forest types of North America, forest ecology and tree identification. The overall course objective is to introduce students to important concepts in forest ecosystem science and management.

**FOWS 3015 INTERNATIONAL ISSUES IN NATURAL RESOURCE MANAGEMENT (3)**
FLD. 3. Examination of contemporary natural and cultural resource management practices and conservation programs through national and international program placements. Spring, Summer and Fall.

**FOWS 3025 INTERNATIONAL ISSUES IN COMMUNITY DEVELOPMENT (3)**
FLD. 3. Examination of contemporary natural and cultural resource management practices and conservation programs through national and international program placements. Spring, Summer and Fall.

**FOWS 3800 INTRODUCTION TO THE ROLE OF FORESTS ON HUMAN HEALTH AND LIVELIHOODS IN SOUTH AFRICA AND MA (1)**
LEC. 1. This course is intended to prepare students for the study abroad trip to South Africa and Madagascar (FOWS 3810). Students will gain knowledge as to cultural practices of South Africa and Madagascar, issues faced by communities and the role forests play in livelihoods and human health. Knowledge and theoretical approaches to various issues to ensure the well-being of people, animals and environment through collaborative multidisciplinary problem solving will be introduced and discussed.

**FOWS 3810 ROLE OF FORESTS ON HUMAN HEALTH AND LIVELIHOODS IN SOUTH AFRICA AND MADAGASCAR (4)**
AAB. 4. Pr. FOWS 3800. This is a study abroad course, students will travel to South Africa and Madagascar to learn about the importance of trees for rural community livelihood and human health. Using the knowledge obtained in the pre-requisite theoretical course (FOWS 3800) students will interact with communities and researchers in South Africa and Madagascar to witness and learn about putting theory into action. Students will witness how issues, discussed in FOWS 3800, are addressed through collaborative, multi-disciplinary problem solving that results in unique approaches to ensure the well-being of people, animals and the environment.

**FOWS 3950 UNDERGRADUATE SEMINAR (1)**
LEC. 1. Students will practice speaking in front of a scientific audience, learn to research topics, and organize presentations for professional audiences, faculty, and other students.

**FOWS 4310 ECOTOURISM (3)**
LEC. 3. Principles, business considerations, and issues surrounding ecotourism, with emphasis on critique and connections to other industries. Spring.

**FOWS 4970 SPECIAL TOPICS (1-4)**
LEC. Overview of forest soil composition, formation, biota, classification, chemistry, ecology, and sustainable management. Course may be repeated for a maximum of 8 credit hours.

**FOWS 4980 UNDERGRADUATE RESEARCH (1-4)**
IND. Departmental approval. Directed research in the area of specialty under faculty supervision. Course may be repeated for a maximum of 4 credit hours.

**FOWS 5140 WATERSHED SERVICES (2)**
LEC. 2. This class examines the livelihoods and ecological impacts of Costa Rica’s program of payments for watershed services. Travel required. Senior. Fall. May count either FOWS 5140 or FOWS 6140.

**FOWS 5220 LANDSCAPE ECOLOGY (3)**
LEC. 3. Pr. BIOL 3060 or FORY 4230. Ecological effects and management of heterogeneous spatial pattern on ecosystems over large areas. Spring Even Years. May count either FOWS 5220 or FOWS 6220.

**FOWS 5270 NATURAL RESOURCE POLICY (3)**
LEC. 3. Departmental approval. Examination of attitudes, philosophies and policies that govern management of the natural resource. Spring.

**FOWS 5320 ENVIRONMENTAL SERVICES (3)**
LEC. 3. Environmental services provided by ecosystems, with emphasis on human well-being and livelihood, and emerging market mechanisms. Spring.
FOWS 5453 CONFLICT AND COLLABORATION IN NATURAL RESOURCES MANAGEMENT (3) DSL. 45. Overview of issues, theories, and approaches to conflict management and collaboration in natural resources. Topics include conflict management, collaborative processes, and negotiation; tools and frameworks for analyzing conflict; and evolving management approaches to natural resource conflict.

FOWS 5620 NATURAL RESOURCE FINANCE AND INVESTMENT (3) LEC. 3. Pr. (ECON 2020 or ECON 2023 or ECON 2027). Principles of corporate and real estate finance as applied to natural resources and the place of natural resources in individual and institutional portfolios. May count one of: FORY 5620, FOWS 5620, FOWS 6620.

FOWS 6140 WATERSHED SERVICES (2) LEC. 2. This class examines the livelihoods and ecological impacts of Costa Rica’s program of payments for watershed services. Travel required. Graduate Standing. Fall. May count either FOWS 5140 or FOWS 6140.

FOWS 6220 LANDSCAPE ECOLOGY (3) LEC. 3. Ecological effects and management of heterogeneous spatial pattern on ecosystems over large areas. Spring Even Years. May count either FOWS 5220 or FOWS 6220.

FOWS 6270 NATURAL RESOURCE POLICY (3) LEC. 3. Departmental approval. Examination of attitudes, philosophies and policies that govern management of the natural resource.

FOWS 6320 ENVIRONMENTAL SERVICES (3) LEC. 3. Environmental services provided by ecosystems, with emphasis on human well-being and livelihood, and emerging market mechanisms. Spring.

FOWS 6456 CONFLICT AND COLLABORATION IN NATURAL RESOURCE MANAGEMENT (3) DSL. 45. Overview of issues, theories, and approaches to conflict management and collaboration in natural resources. Topics include conflict management, collaborative processes, and negotiation; tools and frameworks for analyzing conflict; and evolving management approaches to natural resource conflict.

FOWS 6620 NATURAL RESOURCE FINANCE AND INVESTMENT (3) LEC. 3. Principles of corporate and real estate finance as applied to natural resources and the place of natural resources in individual and institutional portfolios. Spring. May count either FORY 5620 or FORY 6620.

FOWS 7006 INFLUENCES OF NATURAL AND ALTERED ENVIRONMENTS ON ONE HEALTH (3) DSL. 3. The course will emphasize relationships among natural environments, anthropogenic influences on those environments, and vectors of human and animal diseases.

FOWS 7106 HUMAN DIMENSIONS OF ONE HEALTH (2) DSL. 2. Discussion platform for advanced concepts regarding the human dimensions aspects of One Health. The information will be based on human behavior and how it applies within a One Health framework.

FOWS 7150 SPATIAL STATISTICS FOR NATURAL RESOURCES (3) LEC. 3. LAB. 1. Applications of spatial statistics in the natural resources. Three types of spatial data including point pattern data, geostatistical data and lattice (areal) data will be covered to introduce basic concepts, theories and methodology of spatial (spatial-tempo) data analyses and modeling.

FOWS 7206 DISEASE ECOLOGY (3) DSL. 3. Discusses the critical importance of relationships between human and animal diseases and the ecology of vectors, pathogens and the environment.

FOWS 7216 RESTORATION ECOLOGY (3) DSL. 3. Overview of the history, science, ethics, and current practice of restoration ecology to recognize and understand the need for restoration.

FOWS 7226 FOREST HISTORY OF ALABAMA AND THE SOUTHEASTERN UNITED STATES (3) DSL. 3. This course will focus on the natural, human and societal factors that influenced forests and land management in the southeastern United States from the 1700s to present. FOWS 7220 or FOWS 7226.

FOWS 7236 FOREST STAND DYNAMICS (3) DSL. 3. Forest stand dynamics studies the changes in stand structure over time. Examines phases of stand development and how we can help and aid forest, wildlife and restoration management decisions.

FOWS 7246 FIRE ECOLOGY (3) DSL. 3. Examines history of fire management, fire behavior, fuel management and models, ignition techniques, fire suppression techniques, urban interface, smoke management, fire weather, elements of a prescribed burn plan, fire and wildlife, and outreach.
FOWS 7256 LONGLEAF PINE ECOLOGY, MANAGEMENT, AND RESTORATION (3) DSL. 3. Covers the ecology of the once-dominant species, the role fire played in maintaining these ecosystems, management possibilities, conversion to longleaf pine, and an overview of the current restoration efforts.

FOWS 7266 FOREST WETLANDS RESTORATION ECOLOGY (3) DSL. 3. This course will cover the history and policy of wetlands destruction and restoration, wetland classification and inventory, techniques for assessing wetland functions, and techniques for forest wetlands restoration.

FOWS 7306 CURRENT TOPICS IN ONE HEALTH (1) DSL. 1. An undergraduate degree in a Biology-related field. The One Health concept refers to connections among health of people, animals and ecosystems and is used as a framework for addressing health related problems. Course explores the concept from the perspective of current and relevant health issues.

FOWS 7480 ADVANCED NATURAL RESOURCE POLICY (3) LEC. 3. Pr. FORY 5400 or FORY 6400. Policy process and players, theory and evolution of property rights, public choice theory, land ethics, policy analysis, programs and statutory laws, forest policy in an international context. Spring odd years.

FOWS 7950 GRADUATE SEMINAR (1) SEM. 1. SU. Students develop ability and confidence in making oral presentations based upon research and provide constructive criticism of their peers' presentations.