

Morse CSS Lab

Masters of Natural Resources (MNR): Conservation Social Science Focus

The MNR is a non-thesis degree offered on campus or as a combination of online and on-campus courses. These positions are not funded. A small research project on a topic of interest to the student is possible as a directed study, but research is not required.

The following are examples of classes that my MNR students frequently take. A minimum of 30 hours (about 10 courses) is required which usually takes my students 3 semesters. Students can take any combination of these courses. I will work with students to help identify the best courses to achieve their career goals.

Graduate courses offered in the School of Forestry and Wildlife Sciences

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

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. Fall. *Dr. Morse*

FORY 7980 MASTER OF NATURAL RESOURCES PAPER (2) IND. In-depth study involving library review, data collection and/or data analysis. Departmental Program. Fall & Spring. *Dr. Morse*

NATR 6310 ENVIRONMENTAL ETHICS (3) LEC. 3. Critical examination of environmental ethics. Historical development and various ethical perspectives. Examination of current environmental issues using perspectives covered in course. Fall.

NATR 6430 HUMAN DIMENSIONS OF WILDLIFE AND NATURAL RESOURCES (3) LEC. 3. Forests, wildlife, wetlands, and wilderness - sustaining and managing our natural resources ultimately depends on understanding people. Students will investigate the paradigms and theoretical foundations regarding our values, beliefs, attitudes and behaviors concerning human-environment interactions. Spring.

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

FORY 7970 CONSERVATION PLANNING (3) LEC. 3. Pr. [NATR 2050](#) and [BIOL 3060](#) and ([STAT 2510](#) or [STAT 2010](#)). Trains students in how to build plans for conservation and management of natural resources. Covers established processes associated with developing conservation plans while addressing human concerns. Includes how to establish measurable objectives, utilize data, frame problems, and determine uncertainty/risk. Spring.

NATR 7250 SURVEYING AND INTERVIEWING FOR SCIENTISTS (3) LEC. 3. A research design and methods course aimed at interdisciplinary students working on research with one foot in the biological or ecological sciences, and one foot in the social sciences.

NATR 6880 ECOLOGICAL ECONOMICS (3) LEC. 3. Foundations, principles and empirical application of ecological economics to address current social and economic issues. Spring.

Graduate courses in Ecology

BIOL 6090 CONSERVATION BIOLOGY (3) LEC. 3. Pr. [BIOL 3060](#). This course is an overview of ethical, economic and biological aspects of conservation biology at scales ranging from local to global.

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

NATR 6250 WETLAND ECOLOGY AND MANAGEMENT (3) LEC. 3. Pr. [BIOL 3060](#). Wetland ecology in the southeastern U.S. with emphasis on soils, hydrology, biology, and policies and practices related to agriculture, forestry, wildlife. Spring.

ENVI 6100 CLIMATE CHANGE IMPACTS (3) LEC. 3. An overview of climate change for the non-climate scientist, how climate change affects global environments (forests, oceans, lakes, coasts, agriculture) in recent time periods and how historic records are used to study past climate change impacts.

Graduate courses in Rural Sociology

RSOC 6650 SOCIOLOGY OF NATURAL RESOURCES AND THE ENVIRONMENT (3) LEC. 3. The social origins of contemporary environmental problems, emergence of environmentalism as a social movement within industrialized nations, and other topical issues.

RSOC 6610 RURAL SOCIOLOGY (3) LEC. 3. Theories and conceptual approaches to rurality in international and domestic contexts. Rural-urban differences in demographic composition, occupational structure, attitudes and values of rural people and regional cultures. Rural services and institutions as determinants of the quality of life.

RSOC 6640 SOCIOLOGY OF COMMUNITY DEVELOPMENT (3) LEC. 3. Pr. [SOCY 1000](#) or [SOCY 1007](#). Principles of applied social change at the community level in both industrialized and non-industrialized settings; impacts of economic and technological changes on urban and rural communities; and citizen participation in community affairs.

Graduate courses in Geography and GIS

GEOG 6720 PANAMA STUDY ABROAD-CLIMATE CHANGE AND ENVIRONMENT (3) LEC. 3. Departmental approval. Four-week course intended to give students a general understanding of the potential impacts of climate change on Panama's environment via a mix of lectures, hands-on activities and field trips.

GEOG 6820/6826 AERIAL PHOTOGRAPHY AND REMOTE SENSING (4) LEC. 3. LAB. 2. Departmental approval. Aerial photo and satellite digital interpretation, photogrammetry, remote sensing technology and photogrammetry and related laboratory exercises.

GEOG 6830/6836 GEOGRAPHIC INFORMATION SYSTEMS (4) LEC. 3. LAB. 2. Departmental approval. Introduction to concepts and techniques used in developing a geographic information system (GIS) for evaluating spatial distribution patterns and spatial relationships.

GEOG 6850 GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS (3) LEC. 3. LAB. 3. Pr. [GEOG 6830](#).

Introducing the concepts and implementations of the geographic information analysis and integrate GIS with real-world applications. This is a follow-up course of GEOG6830.

FORY 6470 GIS APPLICATIONS IN NATURAL RESOURCES (2) LEC. 1. LAB. 3. Basic understanding of GIS through discussions of the components of a GIS and how GIS are used in natural resource applications.

FORY 6480 GIS DATABASE DESIGN AND ANALYSIS (2) LEC. 2. Departmental approval. Geographic information system database planning, design, creation, management and analysis using a project oriented approach. Spring.

Graduate courses in Community Planning

CPLN 6010 INTRODUCTION TO COMMUNITY PLANNING (3) LEC. 3. Examines the basic principles of community design and planning and introduces areas of specialization with the professional of planning.

CPLN 6020 CITIES, PLANNING, AND CLIMATE CHANGE (3) SEM. 3. This course focuses on connections that climate has with urban processes, climate action planning at local level, compiling greenhouse gas inventory, climate adaptation and mitigation strategies, and building sustainable and resilient cities.

CPLN 6070 ENVIRONMENTAL PLANNING (3) SEM. 3. Program approval for ABM students and non-majors. Addresses issues related to land use, environmental impact and policy, and sustainability. Specific course content may vary from semester to semester.