SUSTAINABLE NATURAL RESOURCES (SNR)

SNR 506, INDEPENDENT PROJECT IN NATURAL RESOURCE SUSTAINABILITY, 2 Credits

Students identify, pose, frame, and analyze the various components of an important natural resource sustainability problem within their country, region, or organization and, at the end of term, present a workplan for its resolution. Oral and written reports are expected. Graded P/N.

Prerequisite: SNR 511 with C or better

Available via Ecampus

SNR 511, SUSTAINABLE NATURAL RESOURCE DEVELOPMENT, 1 Credit

Using readings, class discussions, and field trips, we introduce the program sessions and pedagogical methods, familiarize students with basic working definitions of sustainability, and build capacity to work as group on a common project.

Available via Ecampus

SNR 520, SOCIAL ASPECTS OF SUSTAINABLE NATURAL RESOURCES, 3 Credits

Using readings, personal experiences, and class discussions, students explore five principles of socially sustainable natural resource management, and review the role they play in creating natural resource-based sustainable communities.

Recommended: SNR 511

Available via Ecampus

SNR 521, ECONOMICS OF SUSTAINABLE NATURAL RESOURCE MANAGEMENT, 3 Credits

Focuses on the sources of market failure, the means of correcting market failure, and the real-world examples of making progress toward sustainable resource use by means of market mechanisms.

Recommended: SNR 511

Available via Ecampus

SNR 522, BASIC BELIEFS AND ETHICS IN NATURAL RESOURCES, 3 Credits

Examines basic philosophies and ethical systems in American forestry, including Pinchot’s agricultural/utilitarian approach and Leopold’s biotic/ecological model, compares them to contemporary public attitudes and considers their implications for sustainability.

Available via Ecampus

SNR 530, ECOLOGICAL PRINCIPLES OF SUSTAINABLE NATURAL RESOURCES, 3 Credits

Focus on ecological sustainability and ecological concepts and principles, with examples drawn from forests and arid lands. Exploration of global ecosystems, ecological processes and services, factors that create and maintain diversity, ecosystem health and integrity. Principles for sustainable natural resource management and use.

Recommended: SNR 511 and a basic ecology course

Available via Ecampus

SNR 531, SUSTAINABLE SILVICULTURE AND FOREST CERTIFICATION, 3 Credits

Strategies for sustainable silviculture, and measuring and verifying environmental performance (including certification systems) are examined using classroom lectures, case studies, and field exercises. Part of the 18-credit Sustainable Natural Resources (SNR) Graduate Certificate; also open to other graduate students.

Recommended: SNR 511 and at least two years’ experience working in a natural resources-related field

Available via Ecampus

SNR 532, PLANNING AGROFORESTRY PROJECTS, 2 Credits

Develop basic understanding and appreciation of agroforestry concepts, systems, technologies and practices as used and applied in tropical and temperate zones of the world.

Recommended: SNR 530 (or equivalent ecology course) and SNR 511

Available via Ecampus

SNR 533, NONTIMBER FOREST PRODUCTS: AN INTERDISCIPLINARY INTRODUCTION, 3 Credits

Interdisciplinary introduction to the culture, history, economy, ecology, policy and management of nontimber forest products (NTFP), e.g., wild foods, medicines, floral greens, craft material and landscaping species. Includes domestic public and private forest and international case studies.

Available via Ecampus

SNR 534, REDUCED IMPACT TIMBER HARVEST, 2 Credits

Explores planning, implementation, monitoring, and evaluation of reduced impact timber harvesting. Part of the 18-credit Sustainable Natural Resources (SNR) Graduate Certificate; also open to other graduate students.

Recommended: SNR 511 and at least two years’ experience working in a natural resources-related field

Available via Ecampus
SNR 535, SUSTAINABLE MANAGEMENT OF AQUATIC AND RIPARIAN RESOURCES, 3 Credits
Explores integrated strategies for sustainable management of watersheds, estuaries, coastal zones, and aquatic resources. Special emphasis given to links between land uses and aquatic environments. Part of the 18-credit Sustainable Natural Resources (SNR) Graduate Certificate; also open to other graduate students.
Recommended: SNR 511
Available via Ecampus

SNR 540, GLOBAL ENVIRONMENTAL CHANGE, 3 Credits
Explore biophysical and social sciences that underlie contemporary global change issues: global biogeochemical cycles, climate system, climate change, threats to biodiversity; human dimensions of climate change, globalization, land cover and land use change, global environmental governance and management tools.
Recommended: Basic biology course
Available via Ecampus

SNR 808, WORKSHOP, 1-4 Credits
Describes the policies, practices, and market mechanisms that enhance ecological, economic, and social sustainability of natural resource production and natural ecosystems. Sustainable natural resource management attempts to meet the needs of the present without compromising the future of people or the ecosystems on which they depend.
This course is repeatable for 4 credits.