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.

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 a group on a common project.

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.

SNR 521. ECONOMICS OF SUSTAINABLE NATURAL RESOURCE MANAGEMENT. (3 Credits)
Focuses on the forces 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.

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.

SNR 530. ECOLOGICAL PRINCIPLES OF SUSTAINABLE NATURAL RESOURCES. (3 Credits)
Focus an 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.

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.

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.

SNR 533. ALTERNATIVE (NONTIMBER) FOREST PRODUCTS. (2 Credits)
Explores the economic, environmental, and sociocultural components of understanding and managing alternative forest products, also known as nontimber forest products (NTFPs), while considering other natural/social resources. Part of the 18-credit Sustainable Natural Resources (SNR) Graduate Certificate; also open to other graduate students.

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.

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.

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.

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.