

ESSM - ECOSYSTEM SCIENCE & MGMT

ESSM 604 Changing Natural Resource Policy

Credits 3. 3 Lecture Hours. Process through which environmental policies are changed; theories of social and political change; using these theories along with original research on environmental policy problems to create and implement plans for changing environmental policies in communities. **Prerequisite:** Graduate classification.

ESSM 610 Rangeland Resource Management

Credits 3. 3 Lecture Hours. Basic concepts and theories of rangeland resource management; trends in range classification, grazing management and improvement practices. **Prerequisite:** Graduate classification in agriculture or related subject matter areas.

ESSM 611 Grazing Management and Range Nutrition

Credits 3. 3 Lecture Hours. Nutritional ecology of domestic and wild herbivores on rangelands; vegetation and animal response to various grazing management practices; diet selection, quality, intake and supplementation of herbivores.

ESSM 612 Rangeland Vegetation Management

Credits 3. 3 Lecture Hours. Principles of rangeland brush and weed control with mechanical, chemical, burning and biological methods; interrelationships of brush management with grazing, wildlife and watershed management; planning and economic analysis of range improvement practices.

ESSM 628 Wetland Delineation

Credits 3. 2 Lecture Hours. 2 Lab Hours. Application of the 1987 Wetland Delineation Manual in use by the Army Corps of Engineers; field indicators of hydrophytic vegetation, hydric soils, wetland hydrology, methods for making jurisdictional determination in non-disturbed and disturbed areas, recognition of problem wetlands and technical guidelines for wetlands. **Prerequisite:** Graduate classification or approval of instructor.

ESSM 636 Wildland Watershed Management

Credits 3. 3 Lecture Hours. Elements of watershed management and principles and practices of wildland management for protection, maintenance and improvement of water resources values; current literature and research advances.

ESSM 672/RENR 660 Environmental Impact Analysis for Renewable Natural Resources

Credits 3. 3 Lecture Hours. Analysis and critique of contemporary environmental analysis methods in current use; environmental impact statements; national policies; political, social and legal ramifications as related to development and use of renewable natural resources.

Prerequisite: Graduate Classification. **Cross Listing:** RENR 660/ESSM 672.