ENVR 3700: Natural Resource Management

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 0
Lab Hours/Week: 0
OJT Hours/Week: *.*

Prerequisites:
ENVR 2000 - Introduction to Environmental Science
Corequisites: None
MnTC Goals: None

This class offers an interdisciplinary introduction to the principles of natural resource management highlighting the biological and physical science aspects of natural resource management at local, national, and global scales. Topics covered may include resource management of soil, water, forests, rangelands, wetlands, waterways, and wildlife. This is an intermediate-level course designed to introduce key concepts and topical areas in natural resource management. A specific focus for the course will be the application of adaptive natural resource management to key Minnesota resources at multiple levels of government (local, county, state, federal, and tribal) over time. Prerequisite(s): ENVR 2000 or consent of instructor.

B. COURSE EFFECTIVE DATES: 08/26/2019 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Minnesota resource management: historical/current issues and practices
2. Soil ecology and management
3. Water conservation and quality
4. Basic ecological principles & their application to natural resource management
5. Forest ecology and management
6. Invasive weed management
7. Grassland ecology and management
8. Mining resources and management
9. Inland water resources and management
10. Global change biology (climate change, land-use change, etc.) as related to natural resource management
11. Ecosystem goods and services

D. LEARNING OUTCOMES (General)

1. describe the conceptual basis for natural resource management.
2. apply knowledge gained in class toward practical problem solving in stakeholder groups.
3. formulate management plans for a specific natural resource important for Minnesota.
4. develop skills for oral and written presentation of knowledge learned in the course.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None
F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted