ENVIRONMENTAL STUDIES (ENVN)

ENVN 2000 LANDSCAPE APPRECIATION AND ENVIRONMENTAL SUSTAINABILITY (3 credits)
This course enables students to observe, document and critically examine the values and processes associated with human-designed landscapes and their connection to natural environments. Through concepts and tools presented in the course, students understand the environmental, social and economic context of local and global environments. Emphasis is placed on landscape as an indicator of aesthetic quality; the preference and restorative attributes of nature; design principles and processes as integrators of humans and nature in sustainable urbanized landscapes; and the various ways that sustainability can define a framework for multi-functional landscapes.
Distribution: Humanities and Fine Arts General Education course

ENVN 2010 ENVIRONMENTAL PROBLEMS AND SOLUTIONS (1 credit)
An overview of current environmental problems and the efforts to solve those problems. Intended for Environmental Studies majors and other students with an interest in conservation, the human environment, and management of natural resources. This course examines current local, regional, and global environmental issues and explores work being done to improve environmental quality. The purpose of the course is to give students a broad, interdisciplinary overview of environmental topics to prepare them for advanced course work in the field. Usually offered Spring.
Prerequisite(s)/Corequisite(s): BIOL 1330 or GEOL 1010 (or concurrent enrollment). Not open to non-degree graduate students.

ENVN 2120 SUSTAINABLE LANDSCAPE PLANTS (4 credits)
This course focuses on the identification of native and adapted landscape plants, including herbaceous perennials, groundcovers, vines, trees and shrubs in natural and urbanized landscapes. In addition, it covers the ecological and design contexts for the landscape roles, sustainable usage and management of identified plants in the Great Plains region. (Cross-listed with BIOL 2120)
Prerequisite(s)/Corequisite(s): High school biology
Distribution: Natural/Physical Sci General Education lecture&lab

ENVN 2130 SUSTAINABLE LANDSCAPE PLANTS II (3 credits)
This course requires the identification of native and adapted landscape plants, including groundcovers, vines, trees and shrubs, in natural and urbanized landscapes. In addition, it covers the sustainable usage and management of identified plants in the Great Plains region. (Cross-listed with BIOL 2130)
Prerequisite(s)/Corequisite(s): ENVN 2130 or BIOL 2130 is recommended.

ENVN 3660 INTRODUCTION TO SUSTAINABLE LANDSCAPE DESIGN (3 credits)
This course provides an overview of graphic techniques and process for landscape design; the analysis and conceptual design of the landscape; and the exploration of the design characteristics of plants, landform, and structures through discussion, case studies and applied design development. A focus on sustainable design components and applications is included, including native and adapted plant selection, stormwater management, water conservation, efficient irrigation concepts, and practical landscape management and maintenance considerations. (Cross-listed with BIOL 3660)
Distribution: Humanities and Fine Arts General Education course
ENVN 4420  RESTORATION ECOLOGY (3 credits)
Restoration Ecology examines how people assist with the recovery of ecosystems that have been degraded. The course will examine the theory and application of restoration ecology through lecture, discussion, field trips, and development of a restoration management plan for a degraded ecosystem near Omaha. The course will provide information and resources used by restoration and land management professionals to plan, implement, and manage restorations. (Cross-listed with BIOL 4420, BIOL 8426)
Prerequisite(s)/Corequisite(s): Junior or Senior standing.

ENVN 4600  GIS APPLICATIONS FOR ENVIRONMENTAL SCIENCE (1 credit)
This course introduces the use of geographic information systems (GIS) and other geospatial tools for work in the fields of environmental science, ecology, and natural resource management. The course will develop a working knowledge of the common software and hardware tools used by ecologists through hands-on projects. (Cross-listed with BIOL 4600, BIOL 8606)
Prerequisite(s)/Corequisite(s): BIOL 3340 or permission of instructor.

ENVN 4610  ENVIRONMENTAL MONITORING AND ASSESSMENT (3 credits)
An interdisciplinary approach to techniques for the design and implementation of environmental inventory and monitoring schemes used to evaluate natural resources. Students work as teams to synthesize information from their backgrounds in geography, geology and ecology to evaluate the impacts of human actions on environmental quality following the framework for environmental assessments provided by the National Environmental Policy Act. Course is organized to accommodate variable needs of students with different backgrounds and career choices. Usually offered every year. (Cross-listed with BIOL 4610, GEOG 4610, GEOG 8616, GEOL 4610, GEOL 8616)
Prerequisite(s)/Corequisite(s): Permission of instructor.

ENVN 4700  SUSTAINABLE SOLUTIONS CAPSTONE (3 credits)
This is a capstone experience for students interested in sustainability and related fields. Students work as part of a multidisciplinary team under the guidance of faculty mentors to develop sustainable solutions to challenges faced by local, regional, or global organizations.
Prerequisite(s)/Corequisite(s): Instructor permission.

ENVN 4800  INTERNSHIP ENVIRONMENTAL MANAGEMENT AND PLANNING (1-3 credits)
Internship providing practical experience working with environmental organizations or government agencies for students interested in careers in environmental science and related fields. A proposed internship must be approved by the Environmental Studies Program prior to enrolling. Usually offered Fall, Spring, Summer. (Cross-listed with BIOL 4800)
Prerequisite(s)/Corequisite(s): Permission of the Environmental Studies Program.

ENVN 4820  INTRODUCTION TO ENVIRONMENTAL LAW & REGULATIONS (3 credits)
Seminar on environmental law and regulations. Addresses federal regulations, implementing instructions, legal principles and requirements. The major federal environmental laws, air and water quality, solid and hazardous waste, and pollution prevention and remediation are discussed. Usually offered Fall semesters. (Cross-listed with BIOL 4820, BIOL 8826, GEOG 4820, GEOG 8826, PA 4820, PA 8826)
Prerequisite(s)/Corequisite(s): Junior-senior and permission.