

How To Apply

Contact a program representative at a location near you or apply online at www.friends.edu/application-0

E-MAIL learn@friends.edu
WEB SITE www.friends.edu
WICHITA 316-295-5901
LENEXA 913-233-8700
TOPEKA 785-272-9595
TOLL FREE 800-794-6945

Credit Transfer Policies

- Official transcripts must be mailed directly from the educational institution to Friends University.
- Transcripts stamped “issued to student” cannot be accepted as official transcripts.
- Please have transcripts sent to:
Admissions Processing
Friends University
2100 W. University Ave.
Wichita, KS 67213

Technical Requirements

PC Minimum Recommendations

- Current version of Microsoft Windows operating system
- Current version of Microsoft Office
- Antivirus Protection (McAfee Antivirus available free to students)
- High-speed Internet access
- Active email account (available free to students)

MAC Minimum Recommendations

- Current version of MAC operating system
- Current version of Microsoft Office for MAC
- High-speed Internet access
- Active email address (available free to students)

*Academic programs may have specific technology requirements that exceed these listed above.

Program Overview

The 36 credit-hour Master of Science in Environmental Studies (MSES) provides personalized instruction; and environmental experts guide the research interests of each student. The program also includes 160 clock hours of hands-on environmental internship in the student’s particular area of interest. The program meets one night a week for approximately 20 months and is structured to allow adults to maintain the responsibilities of family, community and career.

Admissions Requirements

- A signed, completed application and a **\$45** application fee (\$65 international fee).
- An official transcript from the institution granting bachelor’s degree or graduate degree.
- A Baccalaureate degree in the sciences, or other area, from an accredited college or university with a 3.0 or higher GPA.
- Prerequisites:
 - a. minimum of 8 credit hours of biological sciences
 - b. minimum of 8 credit hours of physical sciences
- One course each in:
 - c. College Algebra or Calculus
 - d. Computer course or demonstrated computer competence
- Submission of an essay stating your academic and professional background, your professional goals and how you feel the MSES program can help you achieve these goals.
- Interview with the program director
- Approval from the program director granted during the interview process.
- Three letters of recommendation: two professional and one academic.
- Selection preference will be given to professionals whose employment, by its nature, deals with the natural environment and educators who teach about the environment.

Mode of Delivery

- One night a week
- Cohort model

Hours/Length

- 36 credit hours
- 20 months

About the Program Director

Susan Erlenwein

Adjunct Professor

B.A. University of South Florida

M.S. Wichita State University

M.S. Friends University

(316) 660-7205 or (800) 794-6945 ext. 5828

erlenwein@friends.edu

Graduate School

For the past 20 years, the Friends University Graduate School has offered an education that is designed to fully prepare you for the career you are building. It starts with quality faculty who have years of industry experience in their chosen fields. You will receive the most up-to-date, practical education possible.

COURSE LISTINGS

ENVS 501 Introduction to Environmental Studies

This ten week course emphasizes the study of the connections and interactions of natural systems and human societies. The history of the environmental movement and the roles man plays in the environment today will be covered. Present day environmental case studies will be discussed. Each student will develop skills in oral presentation and defense of a particular view of an environmental issue. The specific issues will be selected from general areas of environmental concern, such as population growth, natural resource management, energy use, global warming, air pollution, water pollution, water conservation, soil conservation, pesticide use, hazardous waste management, deforestation and species endangerment. Also included will be an introduction to environmental research methods and statistics. *4 credit hours*

MGMT 516 Environmental Management

This ten week course covers management competencies, models for decision-making, communication skills, and organizational skills. The basic principals of developing a request for proposal (RFP), working within budgets, and working with stakeholders will be covered. Students will be introduced to local environmental management problems and their solutions. Students will then be given environmental problems to review, determine key issues, develop a management model, and develop solutions. Special attention will be given to developing creative methods to address complex problems. *4 credit hours*

GEOL 540 Environmental Geology

This ten week course includes the study of minerals, rocks, natural resources, earth history, earth movement, earth structures and formation, surface water, groundwater, land development, and structure and conservation of soils. Field methods, laboratory techniques and geological research methods will be emphasized. Special attention will be given to Kansas geology, geochemistry, fossil studies, petroleum geology, and environmental problems related to geology. *4 credit hours*

BIOL 560 Environmental Biology

This ten week course includes the study of ecosystem dynamics, aquatic and terrestrial biocommunities, biodiversity, and population ecology. Field methods and laboratory techniques will focus on the physical, chemical and biological parameters of terrestrial and aquatic ecosystems. Special attention will be given to the role man plays in biocommunities. Other topics will include wildlife management, fisheries management and zoo biology. *4 credit hours*

CHEM 520 Environmental Health Measures

This ten week course examines the investigative process of detecting contaminants in the environment. It looks at the behavior, identification, concentration limits and remediation techniques currently utilized to examine environmental contamination. Special attention will be given to toxicological principles, contaminant fate and transport, environmental media and exposure pathways, risk assessment, analysis of inorganic and organic chemicals in air, soil, sediments, surface water and ground water. Field methods, laboratory techniques and research methods will be emphasized. *4 credit hours*

PHYS 530 Energy and the Environment

This ten week course includes the study of the basic concepts of energy supply, storage, conversion, and end use. Throughout history, mankind has improved his quality of life by making use of energy resources. The use of these energy resources has always had environmental impacts and consequences. Our modern lifestyle is completely dependent upon the availability of affordable energy resources. Supply disruptions in the past three decades have demonstrated this dependence. Forecasts of remaining finite energy resources will be presented. The selection among alternatives for energy resources for meeting present and future energy needs will be studied. Includes guest speakers, labs and field trips. *4 credit hours*

LAWS 580 Environmental Law

This ten week course traces the history of environmental law to the present, discuss the evolution of philosophy of thought concerning environmental law and regulation to date, and review the major pieces of environmental law enacted in the United States in the 1960's, 70's and 80's. Emerging issues of environmental liability and financial responsibility, environmental impact assessment techniques, and environmental audits will be reviewed. The structure and function of federal, state, and local government bureaucracies, and licensing and permitting processes will be presented. Students will be introduced to major resources in the environmental law field including the use of the local law library, the use of the Environmental Reporter, and other similar materials. Resource people, including local environmental attorneys; officials from federal, state, and local environmental regulatory agencies; and environmental staff from private industries, will be utilized to illustrate the interaction of environmental law and its impact on modern society. *4 credit hours*

ENVS 620, 621, 622, 623 Environmental Internships

Environmental Internships emphasize participation in hands-on applications of environmental topics. The topics can be as diverse as prairie restoration, sustainable agriculture, environmental education curriculum development, analysis of aquatic or terrestrial ecosystems, environmental writing, developing environmental management plans, internships in environmental laboratories, participation in various environmental certification programs, and many others. The student will enroll in one credit hour for each of the four terms of the program. Each credit hour will require approximately 40 clock hours of supervised experience. The student will contract with a mentor regarding the specific activities required and the number of clock hours of work in each activity. The terms of the contract must be completed by the end of the enrollment period for that term. The student must participate in a minimum of 160 clock hours for a total of four semester credits. *4 – 1 credit hour courses*

ENVS 640 Environmental Project

The Environmental Project is designed to draw upon learned models, concepts and skills. Proposals for the Environmental Project must be completed and approved by the Environmental Studies Committee before the end of Term 3. The student will plan and implement a project that will benefit themselves and might also benefit their employers. Working with a mentor, the student will select a study and contract its terms. Drawing on coursework, library resources and prior experience, the student will carry out their study. Students are encouraged to apply their environmental internship experience to their environmental project. The project end product will follow the format of a report, curriculum guide, management plan, a five chapter thesis, power point presentation, demonstration model, or etc. The study should be completed by the end of the final term. *3 credit hours*

ENVS 660 Environmental Studies Portfolio

The major purpose of the portfolio is to showcase, to employers or prospective employers, the knowledge and skills the student acquired through the Graduate Program in Environmental Studies. The student will demonstrate their knowledge and/or skills in each of the seven expected outcomes of the program: 1) Skills in written and oral communication appropriate for effective application in the workplace. 2) Skills in environmental research appropriate for effective application in the workplace. 3) Ability to apply various forms of technology in the workplace. 4) Field, laboratory and research skills in environmental biology and geology appropriate for effective application in the workplace. 5) Understanding of the connections and interactions of natural systems and human societies. 6) Understanding of local, regional, national and global environmental issues. 7) Skills in applying practical answers and solutions to complex environmental problems. Students will provide at least one piece of evidence for each of the seven outcomes. Evidence may include class papers, lab and field reports, power point presentations, environmental application summaries and evaluations, or other exhibit forms. In addition, the student will develop a resume of employment and education for employers or prospective employers. *1 credit hour*