

# ENVIRONMENTAL STUDIES (EVR)

## **EVR 1001C - Intro. Environmental Science (3 Credits)**

This course is a survey of basic chemical, biological, and physical principles of environmental science and their applications to environmental issues. This course is appropriate for students in a wide range of disciplines or programs.

**Attribute(s):** GENC - Gen. Ed -Natural Sci+Lab, Gen. Ed -Natural Sci+Lab, SCIQ - Scientific Inquiry, Scientific Inquiry

## **EVR 2264 - Environmental Health (3 Credits)**

Provides a broad overview of environmental health within a human and ecological health context. Students become familiar with a broad range of environmental health issues.

**Attribute(s):** CRIT - GE Critical Think Competency, GE Critical Think Competency, GE Written Comm Competency, GENA - Gen. Ed -Natural Sci., Gen. Ed -Natural Sci., WCOM - GE Written Comm Competency

## **EVR 2861 - Intro to Environmental Policy (3 Credits)**

This interdisciplinary course surveys the history and current conditions of environmental policy development and decision-making in the U.S., introducing: the process of environmental policy making; the context in which environmental policy is made; and the conceptual structure, practical implementation, and underlying rationale of environmental policies and regulations.

**Attribute(s):** SUSC - Sustainability Component

## **EVR 3002 - Overview Environmental Studies (1 Credits)**

This is an orientation course for students enrolled in or interested in enrolling in the Environmental Studies Major or interested in careers in environmental fields. The course has several objectives. The first is to orient students to the Environmental Studies Program requirements. Students will also be provided with career and graduate school information. Additionally, students will discuss local and regional environmental and sustainability issues and begin student career counseling.

## **EVR 3020 - Environmental Philosophies (3 Credits)**

Examination of a number of different environmental philosophies as they have been presented through a variety of forms of human expression. Topic center on environmental thought in North American, but philosophies from other cultures, particularly indigenous peoples, will also be studied.

**Attribute(s):** PHMR - Philosophy Minor, SUSC - Sustainability Component

## **EVR 3081 - Science Communication (3 Credits)**

This course explores a variety of methods for communicating science using virtual communication methods. We will learn theory and techniques for a crucial and fast-evolving demand, on-line communication among technical specialists, and assess the effectiveness of those techniques.

## **EVR 3712 - Regional Environmental Studies (3 Credits)**

The natural environments of a selected region of the globe and critical environmental issues are examined within their ecological, cultural, economic, and historical contexts. Multiple sources of information including scientific data and artistic impression are utilized.

**Prerequisite(s):** EVR 1001C

## **EVR 4024C - Microbial Ecology (3 Credits)**

Understanding of ecological and environmental aspects of microorganisms including recently amended global estimation of microbial contribution in our planet and technology developments.

**Prerequisite(s):** (BSC 1010C or (BSC 1010 and BSC 1010L)) or (CHM 1045C or (CHM 1045 and CHM 1045L))

**Attribute(s):** SUSC - Sustainability Component

## **EVR 4026 - Human Ecology and Systems (3 Credits)**

Studies human community patterns from a systems perspective to include energy use, food production, population growth, and interactions with other species. Applying ecological principles, students examine the interactions of the human population, the use of renewable and non-renewable resources and pollution problems and solutions.

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway

## **EVR 4028 - Simulation and Modeling (3 Credits)**

Systems simulation and modeling techniques are used in this course to investigate environmental problems and issues and to develop practical solutions. Students will work in teams to develop models for selected issues. The use of models for predicting future impacts and developing policy will be discussed.

**Prerequisite(s):** PCB 3043C or ISC 3154C or ISC 3154

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway, WBLI - Work based learning indicator

## **EVR 4043C - Environmental GIS (3 Credits)**

To provide a basic understanding of geographic information system concepts as applied to environmental science using ArcGIS.

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway, WBLI - Work based learning indicator

## **EVR 4211 - Water Resources Sci & Policy (3 Credits)**

Water resources regulations, management decisions, and public policies in the U.S., emphasizing current problems of water supply and water quality in southwest Florida. Application of quantitative techniques and policy analysis to critique of specific water resources decisions.

**Prerequisite(s):** EVR 2861 (may be taken concurrently)

## **EVR 4323 - Restoration Ecology (3 Credits)**

Principles and practices of environmental restoration. Examines ecological theory in relation to restoration using case studies from terrestrial and aquatic ecosystems in South Florida and other areas of the world.

**Prerequisite(s):** (BSC 1010C or (BSC 1010 and BSC 1010L)) and (BSC 1011C or (BSC 1011 and BSC 1011L)) and PCB 3043C

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway

## **EVR 4324 - Integrated Ecosystems Mgmt (3 Credits)**

Holistic approach to planning and management, incorporating ecological, social, and economic concepts into an examination of selected case studies.

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway

## **EVR 4326 - Environmental Studies Capstone (3 Credits)**

Conservation strategies enabling communities to build sustainable futures, including the maintenance of healthy and diverse natural environments, renewable natural resources, and sustainable economies. Case studies will be used to identify practical problem-solving approaches by means of integrated lectures and class projects.

**Prerequisite(s):** ((ISC 3120C or ISC 3120 or ISC 3154 or ISC 3154C) and EVR 3020)

**Attribute(s):** SUSC - Sustainability Component

**EVR 4418 - Environmental Policy: Wildlife (3 Credits)**

This course examines the drivers of wildlife extinction and proposed solutions and controversies using a combination of applied readings and case studies.

**EVR 4423 - Teach & Learn Outdoors (3 Credits)**

This course provides experience in the logistics of field trip planning, outdoor group management, outdoor safety, and other issues related to outdoor and non-formal environmental education. National curricula in environmental education will be explored and evaluated.

**Attribute(s):** SUSC - Sustainability Component, WBLI - Work based learning indicator

**EVR 4871 - Environmental Policy Process (3 Credits)**

This interdisciplinary course explores the development of and shifts in environmental policy. It combines widely accepted theories of policy change with domestic and international case studies.

**EVR 4872 - Environmental Policy/Law (3 Credits)**

An introduction to environmental policy emphasizing climate change, biodiversity, and economic growth. Also includes discussion of regulatory policies, taxes, market solutions, and other policy solutions applied to energy policy, transportation policy, endangered species, and materials used.

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway, SUSC - Sustainability Component

**EVR 4905 - Ind. Study in Enviro. Studies (1-4 Credits)**

Individual study by students under the direction of a faculty member.

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway

**EVR 4910 - Sr Proj Rsch Environ Studies (2 Credits)**

Research projects are developed by one or more students under the supervision of a faculty mentor. The research project is designed to hone skills in applying research principles, obtain practice in data collection and analysis, and to develop knowledge and skills in potential professional areas.

**Prerequisite(s):** ISC 3120 or ISC 3120C or ISC 3154 or ISC 3154C

**Attribute(s):** WBLI - Work based learning indicator

**EVR 4911 - Sr Prj Present Envir Studies (1 Credits)**

A continuation of the senior project, students will be expected to prepare and present a summary of their research. The presentation may be oral, written, multimedia, or in another form but accompanied by a report. Work will be completed with a faculty mentor.

**Prerequisite(s):** EVR 4910

**Attribute(s):** WBLI - Work based learning indicator

**EVR 4914 - Interpreting the Environment (3 Credits)**

An in-depth examination of the theory, methods, and contemporary practices in interpretation of the natural and cultural environment from literature review, field analysis and research investigations. Design and assessment of exhibits, trails, signage, creative drama, comprehensive programs and their staffing, management and funding.

**Attribute(s):** SUSC - Sustainability Component, WBLI - Work based learning indicator

**EVR 4920 - Current Topics Environ Studies (1 Credits)**

Special sessions exploring the current issues in Environmental Studies. Topics may vary; they are selected on the basis of what is new or currently relevant in the field.

**Attribute(s):** BIOE - Biology Elective, BPRO - BS Bio Pre-Pro Reqs, ENVE - Envir.Stud.Elect.Pathway

**EVR 4924 - Environmental Education (3 Credits)**

Survey of historical and current philosophies and their applications in practice. Explores interpretations of what the content and processes of environmental knowledge and understanding ought to be.

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway, SUSC - Sustainability Component

**EVR 4930 - Spec Topics in Environ Studies (1-4 Credits)**

Topics of current or special interest to students or faculty. Topics or focus vary depending on student/faculty interest.

**Attribute(s):** ENVE - Envir.Stud.Elect.Pathway

**EVR 4940 - Internship in Environ Studies (3 Credits)**

An internship provides the student with an opportunity to work on a project in the field or laboratory setting, with an environmental agency or education program. This work is usually completed off-campus and the student will have a qualified supervisor at the site as well as a faculty mentor who will jointly evaluate the student's progress.

**Attribute(s):** WBLI - Work based learning indicator

**EVR 5145 - Ecotoxicology (3 Credits)**

Studies of the principles of pharmacology and toxicology, toxicity testing, various types of toxicants (natural and anthropogenic), their transport and fate, risk assessment, and examination of case studies.

**Prerequisite(s):** (CHM 1084 or CHM 1084C or (CHM 1045C and CHM 1046C) or (CHM 1045 and CHM 1045L and CHM 1046 and CHM 1046L)) and EVS 4814

**EVR 5414 - Interpreting the Environment (3 Credits)**

An in-depth examination of the theory, methods, and contemporary practices in interpretation of the environment from literature review, field analysis and research investigations. Design and assessment of exhibits, trails, signage, creative drama, comprehensive programs and their staffing, management and funding. (Permission of instructor required)

**EVR 5925 - Environmental Education (3 Credits)**

The history, content, strategies, methods, assessment, funding, in the context of environmental education, its evolution to education for a sustainable future will be examined in the framework of local to global programs and trends.

**EVR 6022 - Environmental Rsch Methodology (3 Credits)**

An introduction to practice and principles of scientific methods. Includes basic observational, sampling and analytical techniques in environmental science. Topics include hypotheses testing, data collection, quality control/quality assurance, statistical analyses of data, and preparation of scientific reports.

**Attribute(s):** WBLI - Work based learning indicator

**EVR 6045C - Data Analysis Enviro Science (3 Credits)**

Data Analysis in Environmental Science will equip students with necessary skills for effective experimental design, and techniques for analyzing and interpreting environmental science data. This course provides hands-on learning with student generated data.

**Attribute(s):** WBLI - Work based learning indicator

**EVR 6216 - Sci Basis for Watr Qual Policy (3 Credits)**

A critical analysis of U.S. policies for water quality protection and scientific methods used to develop policy and make management decisions. Students learn the regulatory framework, master selected quantitative analytical methods, and apply methods to real-world data from recent watershed management plans.

**Prerequisite(s):** EVR 2861 or EVR 4872 or EVS 6937 and (ISC 3120 or EVR 6022)

**EVR 6237 - Natural Resource Management (3 Credits )**

The course combines economics, policy, and science to study how natural resources and ecosystems are managed and considers environmental resource management issues as relating to wilderness, recreational, agricultural and urban areas.

**EVR 6322 - Con App Sustainability (3 Credits )**

Concepts and applications of sustainability will be discussed in the context of conserving healthy and diverse natural ecosystems and renewable natural resources, and the design of sustainable economies on local, regional, national, and international levels.

**Prerequisite(s):** EVR 6022 or PCB 6064C or OCB 6635

**EVR 6825 - Environ Program Evaluation (3 Credits )**

Focuses on techniques and evaluation methods to assess the effectiveness of organizations involved in environmental services. Students are exposed to evaluation frameworks employed by such organizations as NSF, EPA, NOAA, WHO, the Kellogg Foundation.

**EVR 6907 - Independent Stdy Environ Scien (1-4 Credits )**

Individual study by graduate students under direction of a faculty mentor. The topic will be determined between the student and faculty member. Instructor permission required.

**EVR 6936 - Special Topics in Enviro Scien (1-4 Credits )**

Courses will be developed based on topics of special interest to students or faculty. Topics or focus will vary.