



School of Pure and Applied Sciences

PROFESSOR: PHONE NUMBER:
OFFICE LOCATION: E-MAIL:
OFFICE HOURS: SEMESTER:

I. COURSE NUMBER AND TITLE, CATALOG DESCRIPTION, CREDITS:

EVR 1001C INTRODUCTION TO ENVIRONMENTAL SCIENCE (3 CREDITS)

Environmental science is an interdisciplinary study of interactions between the environment – physical, chemical and geological systems – and living organisms. Special emphasis is given to understanding the basic requirements of life and how human activities can degrade ecosystem services. Students learn about the rapidly changing earth by examining local and global case studies, and develop ideas for conserving biodiversity and living sustainably. Assignments may incorporate data analyses, satellite mapping, field trips, habitat monitoring, and laboratory activities.

II. PREREQUISITES FOR THIS COURSE:

SB 1720 Testing Exemption or successful completion of all Developmental courses

CO-REQUISITES FOR THIS COURSE:

None

III. GENERAL COURSE INFORMATION: Topic Outline.

- Planetary Environmental Systems & Ecosystems
- Evolution, Biodiversity, and Ecology
- Human Population Trends and Projections
- Soil, Agriculture and Food Systems
- Environmental Health, Pollution and Toxicology
- Geology and Mining
- Forests and Forestry
- Fresh Water / Marine Science and Resource Management
- Atmospheric Science and Climate Change
- Economics and Environmental Policy
- Restoration, Conservation, Renewable Energy and Sustainability Strategies

IV. ALL COURSES AT FLORIDA SOUTHWESTERN STATE COLLEGE CONTRIBUTE TO THE GENERAL EDUCATION PROGRAM BY MEETING ONE OR MORE OF THE FOLLOWING GENERAL EDUCATION COMPETENCIES:

Communicate clearly in a variety of modes and media.

Research and examine academic and non-academic information, resources, and evidence.

Evaluate and utilize mathematical principles, technology, scientific and quantitative data.

Analyze and create individual and collaborative works of art, literature, and performance.

Think critically about questions to yield meaning and value.

Investigate and engage in the transdisciplinary applications of research, learning, and knowledge.

Visualize and engage the world from different historical, social, religious, and cultural approaches.

Engage meanings of active citizenship in one's community, nation, and the world.

A. General Education Competencies and Course Outcomes

1. Listed here are the course outcomes/objectives assessed in this course which play an integral part in contributing to the student's general education along with the general education competency it supports.

General Education Competency: **Evaluate**

Course Outcomes or Objectives Supporting the General Education Competency Selected:

- Describe the basic tenets of environmental science and identify key environmental systems
- Describe the key components of natural selection and evolution and how these effect biodiversity and population ecology
- Appraise and assess the link between human population and environmental health
- Describe the importance of soil and agriculture and their roles in the future of food availability
- Summarize the importance of forest ecosystems and current management strategies including protected areas
- Examine the basics of geology and the impact of mining
- Explain the processes, properties, and importance of aquatic ecosystems
- Describe the basic tenets of atmospheric science and assess the link between humans and air pollution
- Define global climate change and appraise the role of humans on this occurrence
- Discuss sources of energy (renewable and nonrenewable), strategies for waste management, and effective methods of conservation and sustainability.

- Describe the basic tenets of environmental science and identify key environmental systems
- Outline and describe the nature and flow and matter and energy through ecosystems
- Describe the key components of natural selection and evolution and how these effect biodiversity and population ecology
- Identify and outline the types of species interaction and how biomes/communities change over time
- Outline the factors affecting demographic changes in human populations and the impact of population growth on the environment
- Appraise and assess the link between human population and environmental health
- Describe the importance of soil and agriculture and their roles in the future of food availability
- Summarize the importance of forest ecosystems and current management strategies including protected areas
- Examine the basics of geology and the impact of mining

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- Discuss sources of energy, strategies for waste management, and effective methods of conservation and sustainability

B. In accordance with Florida Statute 1007.25 concerning the state’s general education core course requirements, this course meets the general education competencies for natural sciences.

- Students will demonstrate the ability to critically examine and evaluate scientific observation, hypothesis, or model construction, and to use the scientific methods to explain the natural world.
- Students will successfully recognize and comprehend fundamental concepts, principles, and processes about the natural world.

V. DISTRICT-WIDE POLICIES:

PROGRAMS FOR STUDENTS WITH DISABILITIES

Florida SouthWestern State College, in accordance with the Americans with Disabilities Act and the College’s guiding principles, offers students with documented disabilities programs to equalize access to the educational process. Students needing to request an accommodation in this class due to a disability, or who suspect that their academic performance is affected by a disability should contact the Office of Adaptive Services at the nearest campus. The office locations and telephone numbers for the Office of Adaptive Services at each campus can be found at <http://www.fsw.edu/adaptiveservices>.

REPORTING TITLE IX VIOLATIONS

Florida SouthWestern State College, in accordance with Title IX and the Violence Against Women Act, has established a set of procedures for reporting and investigating Title IX violations including sexual misconduct. Students who need to report an incident or need to receive support regarding an incident should contact the Equity Officer at equity@fsw.edu. Incoming students are encouraged to participate in the Sexual Violence Prevention training offered online. Additional information and resources can be found on the College’s website at <http://www.fsw.edu/sexualassault>.

VI. REQUIREMENTS FOR THE STUDENTS:

List specific course assessments such as class participation, tests, homework assignments, make-up procedures, etc.

VII. ATTENDANCE POLICY:

The professor’s specific policy concerning absence. (The College policy on attendance is in the Catalog, and defers to the professor.)

VIII. GRADING POLICY:

Include numerical ranges for letter grades; the following is a range commonly used by many faculty:

90 - 100	=	A
80 - 89	=	B
70 - 79	=	C
60 - 69	=	D

Below 60 = F

(Note: The "incomplete" grade ["I"] should be given only when unusual circumstances warrant. An "incomplete" is not a substitute for a "D," "F," or "W." Refer to the policy on "incomplete grades.")

IX. REQUIRED COURSE MATERIALS:

(In correct bibliographic format.)

X. RESERVED MATERIALS FOR THE COURSE:

Other special learning resources.

XI. CLASS SCHEDULE:

This section includes assignments for each class meeting or unit, along with scheduled Library activities and other scheduled support, including scheduled tests.

XII. ANY OTHER INFORMATION OR CLASS PROCEDURES OR POLICIES:

(Which would be useful to the students in the class.)