

General Education Course Objectives and Learning Outcomes

Course Name: Principles of Environmental Science

Course Number: ENVS 1004

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Department: Biological Sciences

COMMON COURSE OBJECTIVES AND STUDENT LEARNING OUTCOMES THAT ARE OR WILL BE LISTED ON THE SYLLABUS OF EVERY SECTION OF THIS COURSE:

<i>Course objectives:</i>	This course is designed to bring the student to a basic but informed awareness of and responsible behavior toward our environment and the role of the human race therein. The content will include a study of the philosophical and scientific basis for the study of ecosystems and the environment, the nature of ecosystems, the techniques used to study the environment, the origin and development of current environmental problems, the interdisciplinary nature of environmental studies, the processes of critical thinking and problem solving, and the moral and ethical implications of environmentally-mandated decisions.
<i>Student learning outcomes:</i>	<p>Upon completion of the course students should be able to:</p> <ol style="list-style-type: none"> 1. Exhibit a basic understanding of key environmental issues 2. Demonstrate observation skills necessary for awareness of our personal, local, national, and global environments 3. Provide perspectives and insights into the global community 4. Exhibit intellectual skills to cope with ambiguity and complexity 5. Conduct research (laboratory, library, and internet) and evaluate sources of environmental information 6. Apply the scientific method, problem solving and critical thinking techniques to studying the environment and environmental problems and their solutions 7. Examine environmental issues and separate scientific conclusions from special interest propaganda

ADHE ACTS INFORMATION FOR THIS COURSE (IF APPROPRIATE)

<i>ACTS Course number:</i>	n/a
<i>Copy the ACTS course objectives and learning outcomes:</i>	n/a

WHICH ATU GENERAL EDUCATION GOALS DOES THIS COURSE FULFILL? (NO MORE THAN TWO)

- Communicate effectively
 - o Written communication
 - o Oral communication
- Think critically
- Develop ethical perspectives
 - o Diversity
 - o Empathy
 - o Leadership
- Apply scientific and quantitative reasoning
 - o Scientific reasoning
 - o Quantitative reasoning
- Apply the value of the arts and humanities
- Practice civic engagement

DESCRIPTION OF HOW THIS COURSE MEETS THE GENERAL EDUCATION GOALS CHOSEN ABOVE (TO

BE INCLUDED ON THE SYLLABUS OF EVERY SECTION OF THIS COURSE)

This course has objectives and content that clearly fall under General Education Goals to help students think critically, apply scientific and quantitative reasoning, and understand wellness concepts. The course is, above all else, a science course where the main content and laboratory experiences fall under and use the scientific method. This will require the student to handle abstract ideas and will employ critical thinking and the use of mathematical models in understanding the material and doing the experiments. The text chosen and the references listed in the bibliography emphasize the global and interdisciplinary nature of environmental science and the fact that all of us in the world are on this planet together. Thus, we must think and act globally.