

**ENVIRONMENT 101L
INTRODUCTION TO THE ENVIRONMENT LAB**

BULLETIN INFORMATION

ENVR 101L - Introduction to the Environment Lab (1 credit hour)

Course Description:

Demonstrations, field trips, data analyses, and discussion relating to environmental issues, such as sustainability, resource management, and pollution control.

Corequisite: Prereq or coreq: ENVR 101

Prerequisite: Prereq or coreq: ENVR 101

SAMPLE COURSE OVERVIEW

The lab section is designed to explore in greater detail the topics introduced in ENVR 101 lectures and give you hands-on experience with collecting and analyzing environmental data. We will make field observations and collect data for analysis, calculate environmental resource use rates, examine environmental impacts using simulation models, and evaluate case study situations.

ITEMIZED LEARNING OUTCOMES

Upon successful completion of Environment 101L students will be able to:

1. Describe the structure and function of significant environmental systems
2. Analyze, graph and interpret environmental data as a means of testing scientific hypotheses, understanding environmental problems, and evaluating potential solutions
3. Critically evaluate arguments regarding environmental issues
4. Comprehend the ways in which students' everyday actions affect the environment
5. Apply their understanding of environmental issues to personal choices

SAMPLE REQUIRED TEXTS/SUGGESTED READINGS/MATERIALS

1. **Experiencing Your Environment: ENVR 101 Lab Manual.** The lab manual is available in .pdf format at your lab's Blackboard site. Please print it out, and make sure to bring it with you to your lab each week. Successful completion of weekly labs requires you to get the most out of your lab sessions; therefore, you should read each week's exercise in advance, and be prepared if you have questions.
2. Calculator

SAMPLE ASSIGNMENTS AND/OR EXAMS

1. **Lab Assignments:** Each lab period will require additional homework, typically a series of questions, which will be due at the beginning of lab the following week. These assignments will be discussed in detail each week.

2. **Lab Final Exam:** The lab final exam tests your comprehensive knowledge of material covered in ENVR101L.

SAMPLE COURSE OUTLINE WITH TIMELINE OF TOPICS, READINGS/ASSIGNMENTS, EXAMS/PROJECTS

<u>Lab</u>	<u>Manual Page</u>
Lab 1: Lab Overview and Procedures	
Lab 2: Sustainable Living: Your Ecological Footprint	3
Lab 3: The Politics of Climate Change: <i>Everything's Cool</i>	9
Lab 4: West Quad - Tour of a Green Building	10
Lab 5: Food Web Structure and Dynamics	13
Lab 6: Dendrochronology and Precipitation Patterns	18
Lab 7: Fisheries & Aquaculture	24
Lab 8: Urban Transport and Sprawl	28
Lab 9: Population Statistics: A Study of Trinity Cemetery	33
Lab 10: USC Energy Audit	36
Lab 11: Green Power	42
Lab 12: Water Quality	45
Lab 13: Conclusions	48
Lab 14: Lab Final Exam	