****

**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**

*Lab Manual Page*

Lab 1: Lab Overview and Procedures

Lab 2: Sustainable Living: Your Ecological Footprint         3

Lab 3: The Politics of Climate Change: *Everything's Cool*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