



## COURSE SYLLABUS

PO Box 1189  
1042 W. Hamlet Avenue  
Hamlet, NC 28345  
(910) 410-1700  
www.richmondcc.edu

**COURSE:**    **BIO 140**       **ENVIRONMENTAL BIOLOGY**

**HOURS:**     Lecture: 3       Lab/Shop: 0       Work Exp/Clinical: 0       Credits: 3

### **COURSE DESCRIPTION:**

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues.

*Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the general education requirement for natural sciences in A.A., A.S., and A.A.S. degree programs.*

**PREREQUISITE(S):** None

**COREQUISITE(S):** BIO 140A

### **TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:**

Open Educational Resources (OER) are listed in the course Moodle.

### **STUDENT LEARNING OUTCOMES:**

Upon successful completion of this course, the student will be able to:

1. Diagram pathways of food webs, carbon, nitrogen and phosphorus cycles.
2. Discuss evolution, speciation, the role of keystone species and interspecific relationships, such as competition and symbiosis.
3. Give examples of different terrestrial and aquatic biomes.
4. Recognize factors that affect populations and human population issues.
5. List sources of air and water pollution and explain the different methods of waste disposal.
6. Discuss current ideas concerning global warming and the greenhouse effect.
7. Classify soil composition, and identify ways to prevent soil erosion.
8. Discuss usage of pesticides and alternative forms of pest control.
9. Describe the effects of nonnative species and the role of extinction.
10. Discuss environmental issues that affect developed and developing countries around the world.

**\*\*\*Please refer to the online version of the Richmond Community College Program & Course Catalog and the Student Handbook for current academic and general information.**