



## COURSE SYLLABUS

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

**COURSE:** BIO 140A ENVIRONMENTAL BIOLOGY LAB

**HOURS:** Lecture: 0 Lab/Shop: 3 Work Exp/Clinical: 0 Credits: 1

### COURSE DESCRIPTION:

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical 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 140

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

No textbook required.

### STUDENT LEARNING OUTCOMES:

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

1. Calculate relative density & relative frequency for a given population.
2. Determine the niche breadth and niche overlap of species within different environments.
3. Graph a survival curve for a given population.
4. Utilize current water quality testing procedures.
5. Diagram the flow of wastewater through a water treatment plant.
6. Identify materials that are recyclable and diagram the layers of a modern day landfill.
7. Identify ecological communities in the local area and identify the principal plant and animal species characteristic of these communities.
8. Identify the soil horizons from a given soil sample, classify the texture of the soil and analyze its nutrient content.
9. Identify invasive nonnative species and determine their niche here and in their country of origin.

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