## 2. General Information

**Date**  
12/04/2016

**Department**  
Environmental Conservation & Horticulture

**Course Prefix:**  
BIO/CON

**Course Number:**  
221/202

**Course Title:**  
Principles of Terrestrial and Aquatic Ecology

## 3. Course Information

**Credit Hours**  
3

**Lecture Contact Hours**  
3

**Laboratory Contact Hours**  

**Other Contact Hours**  

**Catalog Description**  
This course is designed for second year students in Horticulture and Conservation degree programs. An introduction to the scientific study of the interactions between organisms and their environment. Students examine the influence of biotic and abiotic variables on species evolution, population dynamics, and community composition. Students are required to conduct an independent field study to integrate and reinforce ecological concepts learned throughout the degree program.

**New Analysis Question**

**Prerequisites**  
BIO 122 OR BIO 125

**Co-requisites**

**Grading Scheme**  
Letter Grade
This course can be taken more than once for credit

This course is designated as satisfying a requirement in the following SUNY Gen Ed category

First Year Experience

Capstone

4. FLCC Values

College Learning Outcomes Addressed by the Course

- Inquiry
- Interconnectedness
- Perseverance

5. Course Learning Outcomes

Course Learning Outcomes

1. Explain ecological concepts using appropriate terminology.
2. Apply ecological concepts to explain observed patterns (spatial and temporal) in community structure and function.
3. Practice technical writing skills.
4. Integrate information from appropriate sources (primary and secondary).

6. Program Affiliation

This course is required as a core program course in the following program(s)

- AS Environmental Studies
- AAS Fish and Wildlife Technology
- AAS Horticulture
- AAS Natural Resources Conservation
- AAS Natural Resource Conservation: Law Enforcement

8. Outline of Topics Covered

Outline of Topics Covered in Course

New Analysis Question

Outline of Topics Covered

I. Introduction to Ecology
II. Living Things and Their Environment
III. Population Ecology
IV. Community Ecology
V. Human Interactions with Natural Populations
VI. Introduction to the Major Biomes (will be covered throughout the course)