

# BIOL215C : Freshwater Ecology

Enhances students' understanding of ecology and introduces them to the biological, chemical, and physical properties of lakes, streams, and wetlands as they relate to the structure and function of freshwater ecosystems. Students will gain an understanding of freshwater environmental concerns and experience in water quality assessment. The course will also cover topics in sustainability, management, and rehabilitation of natural aquatic environments in relation to human impact.

**Credits** 4

**Lab/Practicum/Clinical Hours** 2

**Lecture Hours** 3

**Prerequisites**

*Students are required to pass prerequisite courses with a grade of C or higher. Exceptions apply; please consult your department chair.*

- Students must take BIOL111C or BIOL115C.

BIOL111C

BIOL115C

**Learning Outcomes**

Upon completion of this course, students will:

1. Describe freshwater ecological principles in stream, lake, and wetland ecosystems.
2. Explain how watershed scale processes affect aquatic ecosystem structures and functions.
3. Evaluate temporal and spatial changes that occur in aquatic environments.
4. Define ways that humans affect aquatic ecosystems and how these changes affect society.
5. Collect and analyze data typical of current aquatic ecosystem research.