

# BIOLOGICAL SCIENCES *with a Concentration in Ecology + Evolution*

COLLEGE OF ARTS + SCIENCES



## COURSES

In your first two years, you'll take the four core biology courses. Two of these classes are linked with labs so that as you learn the fundamental concepts of the biological sciences, you'll also get some hands-on field experiences. Here's a sample of what you can expect to learn and do:

### Plant Ecology

This course emphasizes understanding the functional ecology of plants and vegetation in terrestrial ecosystems. In the lab, students will engage in hands-on lab and field experiences in an effort to develop quantitative, experimental approach to studying the ecology of land plants and their ecosystems such as microclimate characterization, leaf gas exchange, chlorophyll fluorescence, plant competition, pollination ecology and others.

### Conservation Biology

The study of the conservation of biodiversity based in the principles of ecology, evolution, and genetics. The primary goal of this course is to understand natural ecological systems in the context of a human dominated world to learn to best maintain biological diversity in concert with an exploding human population. This is accomplished through lecture, group discussion, and videos.

### Tropical Ecology

This course examines biology, ecology, and conservation of flora and fauna of tropical ecosystems. The co-requisite laboratory for this course involves a fieldtrip abroad to a country such as Belize, Ecuador, Honduras, or Panama to experience first-hand the unique natural history and unparalleled biodiversity of tropical ecosystems. Tropical Ecology incorporates an intense study abroad component and service learning.

**LIFE'S FUNNY, ISN'T IT?** That's one thing people say. Or amazing. Or chaotic, beautiful, unfair, and too short. But a biologist says that life is discoverable. Medicine, dentistry, pharmacy, environmental service, molecular genetics, virology, botany, ecology, marine biology, microbiology, physiology, zoology—our program is the first step toward all of these fields and more. Whether your interest is micro or macro, we'll turn you into an expert-level life scientist.

## Possible Careers:

- Ecologist
- Conservation Biologist
- Wetland manager
- Environmental consultant

**ATTENDING LOYOLA** means being in the heart of New Orleans. Our campus is located in the city's historic Uptown neighborhood, just a short drive from the Central Business District, the city's hub of innovation and strategic thinking. You'll learn to hone your talents in the city named #1 new brainpower city in America and the #5 city in the U.S. for women in tech.