



2019 LUMCON SUMMER COURSES

Credit Course Session Dates: Session I: June 3-21, 2019

Session II: July 8-26, 2019

Course Locations: DeFelice Marine Center, Cocodrie, Louisiana

2019 Courses:

- **Field Studies in Marine Fish Biology and Ecology – June 3-21, 2019**

A field-based assessment of marine fish anatomy, reproduction, physiology, ecology and behavior. Students will learn the theoretical foundation and diverse observation, quantification and analytical techniques involved in the scientific study of fish biology and ecology. Students will gain practical experience in various collection techniques, dissecting, and performing basic physiological and behavioral analyses. Students will learn the fundamental theories underlying the scientific study of marine fish biology and ecology and apply a broad suite of techniques to collect and analyze data. This course is a field-oriented, scientific approach to learning about fishes. [Click here](#) to read the course details.

- **Marine Invertebrate Biodiversity – July 8-26, 2019**

This advanced biology course will integrate key aspects of oceanography, ecology, evolution, and statistics. Students will participate in lectures, literature and theory review, field sampling, programming, and laboratory work to quantify and understand patterns and processes of marine invertebrate biodiversity. Students will gain science literacy through regular journal clubs and a final presentation. This course will cover recent developments and classic concepts in biodiversity theory and community ecology and will give an overview of the structure and function of invertebrate communities. Among the topics covered will include: biotic and abiotic determinants of diversity, invertebrate taxonomy, different sampling methodologies and equipment, sampling design, quantifying and analysis of diversity, data visualization, and R programming. [Click here](#) to read the course details.

**For information on the 2019 courses visit lumcon.edu or contact
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