

# Ichthyology (Elective)

In this Ichthyology course we will investigate the foundations for studying fishes and the historical, current, and future environmental issues facing the most diverse extant vertebrate clade. The course will be broken up into three units. The first will be the classification and diversity of fishes, followed by anatomy and adaptations, and conclude with fisheries and environmental concerns and protections. The goal of the course is to build a working foundation for understanding fishes holistically and develop a working language to further the students' future scientific progress.

The course will be designed similarly to an undergraduate course using *Bond's Biology of Fishes* as a guide, with supplementary selections from historical and modern texts. Interactive teaching methods will be infused throughout the course. The course will examine the diversity of fishes, speak with fisheries professionals, and perform a dissection. The material will be studied through lecture and guided readings. Evaluation will be based on labs, tests, homework, and a final project.

## LEARNING SCHEDULE

The course will be divided into three units and at least one lab and field trip. Concepts will be studied through lecture and guided readings. Evaluation will be based on labs, tests, homework, and a final project.

**Unit 1:** Fish Morphology and Anatomy

**Unit 2:** Fish Diversity

**Unit 3:** Fisheries and Global Concerns.

## GRADES

Grades will be calculated based on participation, homework, quizzes, and a presentation using the standard 10% scale:

*A = 100 - 90%, B = 89 - 80%, C = 79 - 70, D = 69 - 60%, F = below 60%*

Participation: 10%

HW: 15%

In-Class Work & Labs: 25%

Projects: 25%

Quizzes & Tests: 25%

## LATE POLICY

All work turned in late is subject to a daily 10% reduction in grade.

## MAKE-UP POLICY

If a student is absent and the absence is excused, they may hand in their work late by as many days as they were absent (to a maximum of five) without penalty. After this grace period, normal late policy applies. In the case of unexcused absences, students will be held accountable for all work due during absences and any readings/assignments for the day(s) following their absence.

## PLAGIARISM POLICY

Plagiarizing is taking and using ideas from a source without citing that source. By not citing your sources, you claim that what you have written down or made is of your own creation.

If you plagiarize without making an effort to cite the source of the information, you will receive no credit for that piece of work. If your plagiarism is unintentional and resulting from poor citation form, the production or project will be returned to you and not accepted until the errors are corrected. Additionally, cheating of any kind, copying classmates' work, or exhibiting dishonesty in a production, project, or exam will result in receiving no credit for that work.