

Marine Biology

Text: Marine Biology, Castro & Huber, 2005, 5th Ed, McGraw-Hill

Purpose. This course is a one-semester, introductory marine biology course for 12th grade students interested in pursuing this area of study in college or simply gaining a better understanding of the marine environment.

Part One: Principles of Marine Science

The History & Science of Marine Biology, the Sea Floor, Chemical and Physical Features of Seawater and the World Ocean

Part Two: Life in the Marine Environment

Some Basics of Biology, Microbial World, Multicellular Primary Producers: Seaweeds and Plants, Marine Animals without a Backbone, Marine Fishes, Marine Reptiles, Birds, and Mammals

Part Three: Structure and Function of Marine Ecosystems

An Introduction to Ecology, Between the Tides, Estuaries: Where Rivers Meet the Sea, Life on the Continental Shelf, Coral Reefs, Life near the Surface, and The Ocean Depths

Part Four: Humans and the Sea

Resources from the Sea, and the Impact of Humans on the Marine Environment