

# Montclair High School

## Course Syllabus

**Department: Science**

**Course: Marine Biology**

**Level: Academic – Honors by Contract only**

**Credits: 2.5**

### **Course Description:**

Marine Biology is a one semester elective that explores the largest Biome on Earth – the ocean, and the organisms that co-exist in it. The course takes an ecological approach and focuses on the inter relationships among the myriad of organisms found living in the salt water. The course utilizes labs, specimens, videos and journal articles. The course can be contracted for Honors credit.

### **Standards:**

HS-LS2,3 WHST9-12.2, 8

### **Anchor Text(s):**

| <b>Text Title</b> | <b>Publisher/Author</b> | <b>Year/Edition</b>      | <b>ISBN</b> | <b>Text Distribution</b> |
|-------------------|-------------------------|--------------------------|-------------|--------------------------|
| Marine Biology    | McGraw/Hill             | 5 <sup>th</sup> Ed. 2005 | 0072509341  | Class set                |

### **Supplementary Materials:**

Videos, specimens, journal articles

### **Units of Study:**

The Science of Marine Biology

The Sea Floor

Chemical and physical properties of sea water

Marine protists

Marine invertebrates and vertebrates

Marine Fish, birds, reptile and mammals

Marine ecology

### **Proficiencies:**

By the end of this course, students will:

- Identify groups of major marine organisms
- Understand the flow of food energy through the different trophic levels of the marine environment
- Identify major pollutants that are detrimental to the ocean and its inhabitants
- Demonstrate safety when working in the lab setting

**Evaluation & Assessment:**

- Classwork 30%
- Homework 15%
- Labs 5%
- Quizzes 10%
- Tests 40%

Each marking period will be 45% of the semester grade and Final exam will be 10%

It is the student's responsibility to get make up work, notes and tests. Late work will NOT be accepted.

Prior to beginning any lab activities, all students must have submitted a Safety Contract which has been duly signed by both the student and their parent/guardian. This contract will be kept on file by the teacher for the duration of the course.