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 interrelationships 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):

<table>
<thead>
<tr>
<th>Text Title</th>
<th>Publisher/Author</th>
<th>Year/Edition</th>
<th>ISBN</th>
<th>Text Distribution</th>
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<tbody>
<tr>
<td>Marine Biology</td>
<td>McGraw/Hill</td>
<td>5th Ed. 2005</td>
<td>0072509341</td>
<td>Class set</td>
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</tbody>
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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 sand 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.