Marine Science 1 and 2  
La Jolla High School

Instructor: Mr. David James  Room: 911  Phone: (858) 454-3081 ext. 4911
Email: djames2@sandi.net  Web Page: http://www.ljhs.sandi.net/faculty/DJames/

Grades 11 or 12  [UC] [CSU]

Course Description
This is a lab science course designed to give students a diverse background in the marine sciences. The course includes wet labs with live organisms, dissections, intertidal fieldwork, and class projects. The course covers various aspects of oceanography: chemistry, plate tectonics, sediments, ocean and atmospheric circulation, waves, tides, and coastal processes. In addition, the class will focus on marine biology, inclusive of such topics as the biology of plankton, seaweed, plants, animals, marine ecosystems, and ecology. Students will also address issues such as global climate change and pollution. This course fulfills one year towards the science requirement for graduation. It also meets the UC A-G requirements.

Prerequisite
One year of biology; chemistry and/or physics are recommended.

Course Objectives
1. To develop an understanding and appreciation for marine organisms and their environment.
2. To learn how to conduct experiments in the laboratory in a safe and effective manner.
3. To develop skills in conducting field and lab research, analyzing and assessing data, and presenting results.
4. To oversee and maintain a mariculture system to raise white seabass.

Upon successful completion of this course, students will have an understanding of the fundamentals of marine science and its interdisciplinary nature. This is achieved through fieldwork, labs and hands on experiences, class discussions, and guest lectures from marine scientists. Students will read scientific literature and analyze data collected by marine scientists. The course combines curriculum requirements set by the California State Science Standards and additional selected topics.

Method of Instruction
Lectures: Students are expected to actively participate in group discussions and activities, which take place during lectures.

Laboratories: These are designed to supplement the lectures and homework. It is not possible to make up some labs.

A calendar of lectures, homework assignments, and exam dates for each chapter will be available prior to the beginning of the chapter on the instructor’s web page. Audiovisual materials and guest speakers will be presented to emphasize certain subject matter.
Examination material will be taken from topics covered in lecture, as well as textbook chapters, laboratories, classroom activities, and homework. The recommended minimum study time for quizzes is 45 minutes and 60 minutes for a chapter test. The best way to prepare for exams is to stay current with new material. This means that the student reads the sections from the book, reviews their lecture notes, understand the lab materials, and comprehends homework answers. All of this should be done in advance of the night before the exam!

**Student Support Plan**
If you have any questions please feel free to email or call me. I am available for students before school, at lunch, and after school by appointment.

**A. Before instruction**
- Unit calendar to include lectures, homework, laboratory activities, quizzes, and exam.
- Tutoring available before school by appointment.
- Students have access to classroom before school to work on homework
- Ongoing instructor assessment and revision of all curricula

**B. During instruction**
- Assessment of student understanding through regular quizzes, student responses during lecture discussions and individual questions, pre-lab assessment checks, and post-lab/activity discussions.
- Use of technology for student presentations, data analysis, and lectures
- Peer group activities and peer assessment

**C. After assessments**
- Tutoring available after school
- Regular parent contacts to encourage academic performance, punctuality, and attendance
- Grades are posted in a timely fashion for student and parent information
- Students will be recognized and rewarded for academic performance and attendance

**Materials**
Text: *Marine Science – The Dynamic Ocean* (Marrero and Schuster)

<table>
<thead>
<tr>
<th>Quarter</th>
<th>Curriculum</th>
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</thead>
<tbody>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>Marine Ecosystems, Water Structure, History of Oceanography, Migrations, Seafloor, Ocean Formation, Seasonal Changes, Sea Surface</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>Ocean Heat Capacity, Weather and Climate, Deep Sea, Photosynthesis and Seaweed, Biodiversity, Marine Populations, Food Webs</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>Invertebrates, Fishes, Marine Reptiles and Birds, Marine Mammals, Biological Relationships, Waves, Tides</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>Animal Tracking, Human Impact, Marine Resources, Climate Change, Protecting Habitats</td>
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See instructor’s web page for unit calendars with all due dates.
Academic Standards

Grading Policy
A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = 59% and below

Grade Components
Homework and Participation 15%
Labs, Activities, and Projects 35%
Notebook (collected @ semester end) 5%
Exams 45%

Classroom Rules

Be respectful to others.
This includes being courteous, respecting others’ property, and not being mean, teasing or fighting.

Treat classroom equipment and materials with care.
This includes keeping a neat work environment, cleaning up at the end of the period, not damaging school property, and behaving in a safe manner.

Bring your binder, class notebook, and assignments to class each day.
This means having your notebook present in order to take notes on lectures, readings, and lab experiments. It also includes bringing homework to class and having class assignments on hand each day.

Be awake and alert during the entire class.
This means no sleeping and paying attention in class.

Raise your hand to speak in turn.
This includes not getting out of one’s seat without asking first.

Use appropriate language.
This includes slang as well as inappropriate language. It applies verbally and to what is written.

General Consequences

1st Violation – the student will receive a verbal warning and will acknowledge what rule was broken. This will be done in front of the class so that everyone will be aware of the action and consequence.

2nd Violation – the student will receive a verbal warning and will acknowledge what rule was broken. This will be done in front of the class so that everyone will be aware of the action and consequence. The parents will also receive a phone call regarding this matter.

3rd Violation – the student will have a conference with the teacher. The parents will also receive a phone call. This will negatively affect the class participation part of the student’s grade.

4th Violation – The student will write a note to the parents that explains the misconduct and will be given a referral to see the school counselor.

5th Violation – The student will be transferred into another class.
Expectations

Come to class prepared.  Be seated and be ready before the bell rings.
Pay attention during class.  Participate actively in class.
Do your best job possible.  Complete assignments on time.
Ask questions when you do not understand.

Academic Standards

Exams
If an exam is not taken on the assigned day, it must be taken on the first day of the student returning to class. The second absence on an exam day will result in a 10% reduction on the exam score. An additional 10% reduction will result in each additional exam missed.

Due Dates
Assigned work is due on the designated day given. Late assignments are not accepted. In the case of an absence, the assigned work is due on the day of your return. If you are absent, it is your responsibility to find out what you missed in class (upcoming tests, homework, labs, etc.). Make up work that was missed because of an excused absence is due no later than 24 hours after the student’s return. Ask the teacher or check my web site for work that was missed due to an absence.

Academic Dishonesty
Any student guilty of academic dishonesty will receive a zero for the affected activity. That zero may not be dropped from the record and will be included into the student's grade final grade. Upon a second instance of dishonesty in either semester of that course, the student will be removed from that course and receive a final grade of "F/U."

Students are required to put answers in their own words on all work (homework, labs, and other activities). Copying another student’s work and allowing another student to copy his/her work are both plagiarism and fall under academic dishonesty. Talking, passing notes, and other forms of communication during an exam also constitute academic dishonesty.

Citizenship Grade
Citizenship is important for instruction, classroom organization, teamwork, and safety. Inappropriate behavior will not be tolerated. Grading will be based on student’s classroom behavior, participation, and cooperation with fellow classmates, and attendance. Any referrals for inappropriate behavior may result in an “N” or “U” grade in citizenship.
Tardiness
Be in your seat with the required materials when the bell rings. Excessive tardiness will lower your citizenship grade! **This applies for the entire semester.**

- **First-second tardies** → conference with student – no penalty
- **Third tardy** → parent contact – no penalty
- **Fourth tardy** → lower citizenship one grade
- **Fifth tardy** → lower citizenship one grade; parent contact
- **Sixth tardy** → lower citizenship one grade; referral to counselor
- **Seventh tardy** → **U in citizenship; referral and/or suspension**

Gum, Food, and Drink
**Chewing gum, eating food,** and **drinking in class** is not allowed in class and may affect your citizenship grade.

Attendance
Class attendance is critical. Participation in the class is included in the grade. Some labs may not be made up if missed. If you plan to be excessively absent, then you may wish to rethink your enrollment in this class.

Code of Conduct
Students are subject to charges of misconduct concerning, but not limited to, the following acts:

- No use of electronics in class (i.e., phones, iPods, etc.)
- Physical or verbal disruption of instructional activity
- Disorderly, lewd, indecent or obscene conduct
- Wearing of hats or hoods in the classroom
- Wearing of hats and/or clothing that advertise obscenities, alcohol or drugs
- No leaning or tilting while sitting on stools. This is a safety issue.
- The bell does not excuse the class; the teacher excuses the class.

**Students:** This syllabus lists your responsibilities as a student in our class. Please read and follow these responsibilities and expectations. Sign the signature page. Then have your parent(s) or guardians read this syllabus, which lists the course curriculum, grading policies, and course requirements. Have them sign the signature page and return it to class by the first Friday of the course.
Academic Dishonesty

Acts of academic dishonesty include, but are not limited to, the following:

**Cheating** – distribution or use of external assistance relating to an examination, test, quiz, homework, project, or the like, without express permission of the teacher.

**Fabrication** – falsification or invention of data, citation, or other authority in an academic exercise.

**Plagiarism** – use of another's ideas, words, or work as one's own. Plagiarism includes, but is not limited to, the misuse of published or Internet material, and other student’s work.

Students may never copy another student's answer. This includes exams, labs, class work, and homework. All written answers must be in the student's own words.

**Theft or Alteration of Materials** – unauthorized taking, concealment, or alteration of student or teacher materials.

Any student guilty of academic dishonesty will receive a **zero for the affected activity**. That zero may not be dropped and will be averaged into the student's grade. **Citizenship will be lowered by one mark** after the 1st instance of academic dishonesty.

Upon a **second instance** of dishonesty in either semester of that course, the student will be **removed from that course** and receive a final grade of "F/U."

Note: In all instances, a referral will be placed in the student's cumulative folder.

**Effect on Applying to College** – Question on the Common Application for College

Have you ever been found responsible for a disciplinary violation at any educational institution you have attended from the 9th grade (or the international equivalent) forward, whether related to academic misconduct or behavioral misconduct that resulted in a disciplinary action? These actions could include, but are not limited to: probation, suspension, removal, dismissal, or expulsion from the institution.

Applicants are expected to **immediately notify the institutions** to which they are applying should there be any changes to the information requested in this application, including disciplinary history.

I have read and understand the school academic dishonesty policy and consequences.

Student ________________________________ (Print)

Signature of Student ________________________________

Name of Parent/Guardian ________________________________ (Print)

Signature of Parent/Guardian ________________________________
Student

I have read and understand the rules, consequences, expectations, academic standards, and supplies needed for this course.

Student ________________________________ (Print)

Signature of Student ________________________________

Student’s email ________________________________

Dear Parent/Guardian,
Communication between the parent, student, and teacher is vital for the success of the student. I hope that we can effectively work together for your daughter/son. If you have any questions or concerns, please contact me via my email or school phone. I will get back to you as soon as possible. Your child’s results reflect their progress and the grades earned will be important for the academic future. I encourage you to review my web page for additional valuable information about the course.

Name of Parent/Guardian ________________________________ (Print)

Signature of Parent/Guardian ________________________________

Phone number: ______________ Date ______________

Parent’s Email: ________________________________

20807(a) 6/09  Teacher’s course requirements, procedures, and practices are not limited to everything included above.