**OCN 100 - OCEANOGRAPHY LECTURE** **FALL 2009**

Instructor: Dr. L. Yon
Office: NS 110-C
Office Hours: Mon. & Wed., 1:00 – 3:00 PM;
Tues. & Thurs., 4:00 – 4:30 PM; or by appointment.
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## Course Objective:

As a survey course, Oceanography 100 provides a foundation in science by examining the basic geological, chemical, physical, and biological aspects of the world's oceans. This course is an interdisciplinary course and therefore covers a wide variety of subject matter. Because of the diversity of the subject matter, it is not possible to cover all areas with equal emphasis or in a comprehensive manner. Students successfully completing this course will have a basic understanding of the dynamic nature of the world's oceans and an appreciation of the delicate balance that exists between the oceanic system and humans.

*A note about Oceanography 100 Lab:* The Oceanography 100 Lab course is designed to complement the Oceanography 100 lecture course. Topics covered in the lab tie in closely with topics covered in the lecture course and are taught using both hands-on activities and field trips. While enrollment in the Oceanography 100 Lab is not mandatory, students enrolled in both lecture and lab components have a higher success rate and conclude the course with a deeper understanding of oceanographic concepts.

## Textbook and Other supplies:

Required Text: Essentials of Oceanography, Trujillo & Thurman, 9th Edition (2008)

The required textbook for this course is an excellent resource but should not be used as a substitute for class attendance. The attached reading and exam schedule outlines the topics to be covered in each class meeting. **It is highly recommended that textbook readings be completed prior to discussing the topic in class.** It is very important for you to keep up on the reading assignments. Textbooks should be brought to each class meeting for easy reference to important figures and diagrams.

Other Supplies:

You may wish to have on hand a few colored pencils or colored markers for highlighting information in the textbook or for classroom drawings. Also, the study of Oceanography is heavily tied to the geographic distribution of ocean phenomenon. It is critical that you be familiar with the basic distribution of the world's landmasses and ocean basins. I will be referring to specific sites as examples of oceanographic processes and you will be responsible for this information. For the geographically underprepared, you may wish to invest in an inexpensive (though up-to-date) atlas as a resource beyond the textbook.

## Class Attendance and Etiquette:

This is a 3-unit course transferable to a CSU or UC school and therefore the expectations for learning are the same as those at a CSU or UC school. As in most any entry-level course, you will essentially be expected to learn a whole new vocabulary centered on the scientific description of the oceans and its processes. Traditionally, students are expected to spend at least 3 hours studying for each hour of in-class time (more time if science "isn't your subject!").

Lectures will follow the text in general subject matter but material will be presented which is supplemental to required text readings. A significant part of class time may include films and slides related to concepts you will be expected to understand. Exam material will be taken from class lecture material and discussions of assignments. **Please note that you are responsible for everything covered or assigned in classroom sessions. Notes for sessions missed must be obtained from other students.**

Although I am here to facilitate your learning, it is each student who determines his or her own grade. In order to do well in class, you will need to attend class regularly. Although your attendance will not be directly factored into your grade, your grade will reflect your attendance. I encourage you to ask questions in class, but unnecessary talking will not be tolerated. Such behaviour is disruptive to the class and interfers with students who are in the class trying to learn the material. If you have a question, please don't have a conversation with your neighbor, raise your hand and ask me.

As a courtesy to your fellow students and to me, I expect you to arrive on time for class meetings and to arrive prepared for the class session. Also, I realize that some of you may have very busy schedules, but please, if you are extremely tired, go home and take a nap there, not in class!

Please note that assignments are collected and handouts will be available for you to pick up at the beginning of class. Should circumstances make you late for class, please enter the classroom quietly and quickly take a seat. Please do not interrupt me or the class by walking to the front to collect something or hand something in once I have started class. Also, please do not start putting your books/papers away before I have dismissed class...such behavior is disruptive to the class. Please do not eat and/or drink in class – it not only distracts you but is disruptive to your neighbors as well. Cell phones and iPods are also considered disruptive. These devices must be turned off and put away during class time. **Students disrupting the class will be asked to leave the classroom and may be subject to removal from the course for repeat offenses.**

**Grades:**

Final grades will be based on student comprehension as demonstrated on 6 quizzes, a cumulative final exam, and class assignments. The final exam accounts for 20% of your final grade. The quizzes account for 60% of your final grade. Your lowest quiz score will be dropped and thus will not adversely affect your grade. Since a low score may represent an absence, there will be no make-ups on the quizzes. All quizzes may contain any combination of the following: multiple choice, matching, true-false, sketches or drawings, definitions, and short essay questions. Scantron forms (#882) are required. Study outlines and review questions for each quiz are posted on the class web site (http://faculty.palomar.edu/Lyon/).

Class assignments will be given throughout the duration of the course and will constitute 20% of your final grade. Some assignments may be completed in class; others may require work outside of the classroom. There will be specific instructions for each assignment. All assignments and due dates are announced in class and posted on the class web site. Assignments are considered due at the beginning of the class on the day specified. If for some reason you cannot attend class, arrangements must be made for the delivery of your work. I do not accept work via email. Information associated with these assignments is considered part of the course content and appears on quizzes.

At the end of the course, all points will be added together and compared to the total points possible on a percentage basis. Grades will be based on the following scale:

| | | |
|---|---|---|
| 90% = A | ⇨ | Student has a superior understanding of the topic. |
| 80% = B | ⇨ | Student has an accurate grasp of the topic. |
| 65% = C | ⇨ | Student has an acceptable, but commonplace understanding of the topic. |
| 55 % = D | ⇨ | Student fhas only a limited understanding of the topic. |
| Below 55 % = F | ⇨ | Student has little or no grasp of the topic. |

Extra credit exercises/points may be assigned at my discretion and is dependent upon overall class performance. Extra credit points may not be made up – you must be present in class to participate and to receive the points.

**Academic Honesty:**

Please note that committing any type of academic fraud is a very serious offense and that cheating and plagiarism are not tolerated in any of my classes. This class will be conducted in accordance with the Palomar College "Student Code of Conduct" and the basic standards of academic honesty. If I have reason to believe that plagiarism or cheating has occurred, you will receive a zero grade for the work in question. You will also be reported to the Director of Student Affairs. For your information, please note the following:

- ★ **Plagiarism** is using someone else's ideas or work without acknowledging them as a reference.
- ★ **Cheating** involves the copying someone else's work on a quiz, test, or homework question. It also includes intentionally or unintentionally giving or receiving help during an exam, using unauthorized information sources during an exam, or removal of an exam from the classroom.

**Students with Disabilities**

If you have a disability that requires some accommodation, please speak with me and provide official documentation within the first two weeks of class. Reasonable accommodation will be made.

**Add-Withdrawal Information:**

Only students who are officially registered may participate in this class. If you are given a permission code to add this class, you must officially add the class prior to the next class meeting. If you have difficulty using eServices to add, please notify me immediately. The deadline for adding any class or using a permission code to add is Sept. 6, 2009. **Under no circumstance will students be allowed to add this class after the add deadline**.

The following table summarizes the Add/Drop time schedule:

| Through Sept. 23 | Sept. 24 through Oct. 17 | Oct. 18 through the end of the semester |
|---|---|---|
| Visit Student eServices to drop classes. The instructor's permission is not required. No notation or grade will appear on your record. **Last day to qualify for a refund is Sept. 6, 2009**. | Visit Student eServices to drop classes. An instructor's permission is not required. A "W" will appear on your record. | No drops are allowed. An evaluative grade (A, B, C, D, F) must be given. Note: Incompletes are given only in documented cases of extenuating circumstances such as an accident or medical concern. |

* Please note that it is the student's responsibility to initiate the procedure of withdrawing from a course by filing the proper information with administration; I can not do this for you. The instructor's signature is not required and you may withdraw through the 8th week of the semester. Although you officially do not need to inform me of your withdrawal, I would appreciate the chance to talk to you before you do so. Please note that if you decide to drop this class and you are also enrolled in the Oceanography Lab class, you must also drop the lab class!

**Please remember that I am here to help you learn the material!**
**Please do not be afraid to ask questions!**

**TENTATIVE READING AND EXAM SCHEDULE - OCN 100 – Fall 2009**

Section 70407, Mon. & Wed., 9:30 – 10:50 AM, Room NS-135

| Week # | Week of: | Lecture Topic | Relevant Chapters |
|---|---|---|---|
| 1 | Aug. 24 | Course Overview | Introduction |
| | | Introduction to Planet "Earth" | Chapter 1 |
| 2 | Aug. 31 | Introduction to Planet "Earth" | Chapter 1 |
| | | Introduction to Plate Tectonics | Chapter 2 |
| 3 | Sept. 7 | Monday Holiday (Labor Day) | |
| | | Introduction to Plate Tectonics | Chapter 2 |
| 4 | Sept. 14 | Plate Dynamics | Chapter 2 |
| | | ***Quiz 1 - Chapters 1 & 2 (selected portions)*** | |
| 5 | Sept. 21 | Plate Tectonics and Marine Provinces | Chapters 2 & 3 |
| 6 | Sept. 28 | Marine Sediments | Chapter 4 |
| | | ***Quiz 2 – Chapters 2, 3, & 4*** | |
| 7 | Oct. 5 | Chemical/Physical Properties of Sea Water | Chapter 5 |
| | | Air-Sea Interaction | Chapter 6 |
| 8 | Oct. 12 | Air-Sea Interaction | Chapter 6 |
| 9 | Oct. 19 | ***Quiz 3 - Chapters 5 & 6*** | |
| | | Surface Ocean Circulation | Chapter 7 |
| 10 | Oct. 26 | Surface Ocean Circulation | Chapter 7 |
| | | Deep Ocean Circulation | Chapter 7 |
| 11 | Nov. 2 | ***Quiz 4 - Chapter 7*** | |
| | | Wave Dynamics and Wind Waves | Chapter 8 |
| 12 | Nov. 9 | Tides | Chapter 9 |
| 13 | Nov. 16 | Tsunamis | Chapter 8 |
| | | ***Quiz 5 - Chapters 8 & 9*** | |
| 14 | Nov. 23 | Coastal Oceanography | Chapters 10 & 11 |
| | | The Marine Habitat | Chapter 12 |
| 15 | Nov. 30 | Biological Productivity | Chapter 13 |
| | | ***Quiz 6 - Selected portions of Chapters 10, 11, 12, & 13*** | |
| 16 | Dec. 7 | Pelagic and Benthic Marine Communities | Chapters 14 & 15 |
| | | Special Summary Topic - El Niño/La Niña | Hand-outs |

**CUMULATIVE FINAL EXAM:** Section 70407, Wed. Dec. 17, 10 AM