Mission Statement: El Camino College offers quality, comprehensive educational programs and services to ensure the educational success of students from our diverse community.

Lynn Fielding
El Camino College
Fall 2009
Section 1330
My Office: NATS 211
T and H 1:30 – 2:00 PM
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ISBN 0131447734         Price new $107.95         Price used $87.35

ISBN 2-10-551369-7 Price new $11.25

Course Objectives: At the completion of the course, students should be able to describe plate tectonics, seafloor spreading, the origin of ocean sediments, the near shore and deep ocean environments, the dynamics of waves, tides, and ocean currents, and general ocean processes.

Recommended preparation: eligibility for English 84.

Transfer credit – California State University and University of California

Class Meetings:
Lecture H 2:00 – 5:10 PM Room: NATS 218
Lab T 2:00 – 5:10 PM Room: NATS 218

Student Learning Objectives:
Students will be able to recognize and articulate how the ocean affects human life and how humans affect the ocean and explain the basic concepts of oceanography. Oceanography students will use the scientific method in their laboratory and field exercises. Assessment assignments will be administered during the semester.

Attendance: Roll will be taken at each class meeting. Students are expected to attend every lecture. Excessive absences may impact the student's grade. Students are responsible for all of the attendance guidelines published in the current El Camino College Catalog. Maps to alternative site meetings will be provided at least a week in advance.

Lecture Notes: The best way to learn what will be covered on the exams is to attend class. Text book web site is : http://www.prenhall.com.

Bring the text book and lab manual to class!

Grading:
4 Lecture Exams 400 Points (100 points each) A = 900 - 1,000 Points
Lab Assignments 300 Points B = 800 - 899 Points
4 Assignments 100 Points (25 points each) C = 700 - 799 Points
Group Presentation 50 Points
Attendance/Participation 50 Points D = 600 - 699 Points
Final Exam 100 Points
1,000 Points Total
F = > 599 Points

No make up exams or laboratories without prior consent of instructor or for medical reasons. International students may use a paper dictionary during exams.

Laboratory assignments are to be done during class time and not as a homework assignment. Students are to work with partners (up to four students per group) during the laboratory exercises.

**Student Conduct:** Anyone caught cheating or found to be plagiarizing material will receive the grade of F. Conduct at El Camino College must conform to the laws of the State of California, District policies, and campus rules and regulations. The El Camino College faculty, staff and administration are dedicated to maintaining an optimal learning environment; the standards of behavior as outlined in this policy are essential to the maintenance of a quality college environment. These standards will apply to all students on campus, other college property or while attending any college-sponsored event. Violation of such laws, policies, rules and regulations or behavior adversely affecting suitability as a student, will lead to disciplinary action. Disciplinary actions as noted in Section II may be taken against any person who engages in behavior defined as misconduct as listed. Students are responsible for all of the standards of conduct guidelines published in the current El Camino College Catalog.

**American Disability Act:** El Camino College is committed to providing educational accommodations for students with disabilities upon the timely request by students to the instructor. Students with disabilities that would like to request an academic accommodation are responsible for identifying themselves to the instructor and to the Special Resources Center.

Several alternative site meetings will be conducted off campus and students are expected to provide their own transportation. Waivers must be completed prior to the alternative site meetings. Please note that students represent El Camino College and the Earth Science Department both in the classroom and during alternative site meetings so please act accordingly. Car stereos should not be able to be heard from outside of the vehicle when arriving at alternative site locations.

**A maximum of ten extra credit points** (1 point per current event) can be earned by sharing an oceanographic current event with the class at the beginning of lecture. To receive credit, students must write their name, date, and topic on a sheet of paper and submit it by the end of the current event announcements.

Food and drink are permitted in the classroom as long as it does not cause a disruption during class time. Students are expected to clean up all materials before leaving the classroom or loss in privileges will result. No food or beverages, even water, are allowed in the computer labs. There is to be no gum in the classroom.

Smoking is **NOT** permitted during alternative site meetings.

Cell phones and portable electronic devices are not to be used in the classroom at any time.

Please push in chairs before leaving the classroom. The classroom door should never slam shut. Generally, one door will be left ajar and the other closed. Use only the door that is ajar to prevent disruption of classes in session. When in the hallway, students should only speak softly so as not to disrupt other classes in session.

**Students will be notified of any changes to the course requirements or policies.**

Good luck this semester!
Oceanography 10
Fall 2009 Semester Outline

Week 1
09/01   T  Course Outline, Introduction, Latitude and Longitude
09/03   H  Chapter 1 (Introduction to Planet Earth), Appendix, Maps and Charts

Week 2
09/08   T  Lab - California Tectonics/ Geography of the Oceans
09/10   H  Chapter 1, Chapter 2 (Plate Tectonics and the Ocean Floor)

Week 3
09/15   T  Chapter 2, Chapter 3 (Marine Provinces), Assignment 1 Due
09/17   H  Alternative Site Meeting Madrona Marsh

Week 4
09/22   T  Alternative Site Meeting Torrance Beach - Geology/Ocean Environment  Meet at alternative site at 2:45 PM
10/01   H  Exam 1 (Chapter 1, 2, and 3), Chapter 4, Chapter 5 (Water and Seawater)

Week 5
09/29   T  Lab - Plate Tectonics Computer Lab (MCS 8)
10/01   H  Assignment 2 Due

Week 6
10/06   T  Lab – Tsunamis, Circulation
10/08   H  Chapter 5, Chapter 6 (Air - Sea Interaction), Lab - Global Warming

Week 7
10/13   T  Alternative Site Meeting Torrance Beach - Sediments  Meet at alternative site at 2:45 PM
10/15   H  Assignment 2 Due

Week 8
10/20   T  Lab – Seawater Chemistry
10/22   H  Chapter 7, Chapter 8 (Waves and Water Dynamics), lab - Waves

Week 9
10/27   T  Lab - Productivity, Coral Reefs
10/29   H  Chapter 8, Chapter 9 (Tides), Sieving of Sediment Samples

Week 10
11/03   T  Alternative Site Meeting Marine Mammal Care Center  Meet at alternative site at 2:45 PM
11/05   H  Exam 2 (Chapters 4, 5, 6, and 7), Chapter 10 (The Coast: Beaches and Shoreline Processes)

Week 11
11/10   T  Lab - Internet Research Project  (MCS 8)
11/12   H  Assignment 3 Due, Sediment Analysis Due

Week 12
11/17   T  Lab - Remote Sensing, Lab Manuals Due
11/19   H  Exam 3 (Chapters 8, 9, 10, and 11), Chapter 13 (Biological Productivity and Energy Transfer), Assignment 4 Due

Week 13
11/24   T  Alternative Site Meeting Cabrillo Marine Aquarium  Meet at alternative site at 3:00 PM
11/26   H  No Class Meeting – Thanksgiving Day!

Week 14
12/01   T  Alternative Site Meeting Torrance Beach - Marine Habitat  Meet at alternative site at 2:45 PM
12/03   H  Chapter 14 (Animals of the Pelagic Environment), Chapter 15 (Animals of the Benthic Environment)

Week 15
12/08   T  Lab Presentations
12/10   H  Exam 4 (Chapters 12, 13, 14, and 15), Current Events in Oceanography

Week 16
12/15   T  Alternative Site Meeting Torrance Beach – Pollution  Meet at alternative site at 2:45 PM  (Collect Beach Labs)
12/17   H  Final Exam

Final Exam
Thursday, December 17, 2009
2:00 PM, NATS 218