Course Syllabus

BI/FW 111  
Introduction to Marine Life in the Sea  
itchung.cheung@oregonstate.edu

Winter Quarter,  
Saturday-Sunday (2/16-17)  
Hatfield Marine Science Center

Course Fee: $50 for transportation, housing and meals.

Course Description:
A field-focused learning experience, this inquiry-based course is a basic overview of the marine life and environment on the Oregon coast, including rocky shores, sandy beaches, mud flats, bays, estuaries, and watersheds. Through lectures, lab and field exercises, students will examine important marine organisms in their habitat; exploring their ecological niches and adaptations to their environment along the Oregon coast.

1 credit unit. P/NP: Lecture (9hrs), Labs (8hrs). Labs will include field observations.

Prerequisites: High school biology and chemistry.

Measurable Student Learning Outcomes:
The successful student will be able to:

a. Define multiple research fields within marine science and examine how these interdisciplinary relationships are addressing different research questions.

b. Identify and describe major marine habitats and taxa.

c. Describe and explain basic trophic relations in the marine environment

d. Illustrate adaptations of major marine organisms in marine habitats: Rocky Intertidal, Estuary and Mudflats, Open Ocean.

Evaluation of Student Performance:
Student evaluation for the course will be based on quizzes (20%), lab/field journal (25%), field participation (25%), discussions (10%) and group projects (20%).

Learning Resources:
Rite in the Rain field notebook
Introduction to the Biology of Marine Life by James L. Sumich and John F. Morrissey (Optional)

Schedule of Topics:

*Week prior: Pre course orientation and lecture (1.5 hours)
  - To Bring List (journal, camera, clothes, boots, money, sleeping bag)
  - Logistics (transportation, housing, meals)
  - Expectations
  - Reading Assignment
  - Lecture: Marine Biology Overview: Ecology, Habitats and Organisms

*Mandatory for students enrolled, but open to larger community
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Saturday:
7:30    Leave Corvallis for HMSC
7:30-9:00  Arrive at HMSC
9:00-10:00 Quiz and lecture: Marine Science Research (Welcome, introductions, lab tour, Library, view estuary)
10:00-11:00 Lecture: Estuaries and Mudflats
12:00-2:00 Field Observations: Estuary/Mudflat (HMSC)
2:00-3:00 Wet lab and Quiz
3:00-5:00 Field Observations: Rocky Intertidal (Seal Rock/Boiler Bay)
6:00    Marine Science Theme Film (DH or VC auditorium)

Sunday:
8:30-10:00 Quiz and Lecture: Rocky Intertidal
10:00-12:00 Field Observations: Docks
1:00-2:00 HMSC Visitor Center Lab
2:00-4:00 Group projects
4:00-5:30 Group Presentations
5:30-6:00 Final Lecture: The Value of Undergraduate Internship Opportunities
6:00    Leave for Corvallis

In accordance with University policy, academic dishonesty will not be tolerated. Please review the link to the Statement of Expectations for Student Conduct prior to the start of class http://oregonstate.edu/admin/stucon/achon.htm

Statement Regarding Students with Disabilities

"Accommodations are collaborative efforts between students, faculty and Services for Students with Disabilities (SSD). Students with accommodations approved through SSD are responsible for contacting the faculty member in charge of the course prior to or during the first week of the term to discuss accommodations. Students who believe they are eligible for accommodations but who have not yet obtained approval through SSD should contact SSD immediately at 737-4098."