TEXTS - The required texts for this class are:
Nybakken and Bertness, Marine Biology – reading assignments are from the 6th Ed.
Academic Outline _Marine Biology
Kozloff – Seashore Life of the Northern Pacific Coast, Chs. 1 & 2, pdf files on the
course website, several copies of the whole book are on reserve in the Science
Library and the book is available as a recommended text in the bookstore
Additional required readings may be placed on the course website

Recommended: Brown and Rovetta – Exploring Pacific Coast Tidepools,

WEEK 1
M 3/30 READING: Ch. 1 Nybakken – Introduction to Marine Envt.
T 3/31 Basic scale and geology of the oceans
Th 4/2 Salts, waves, and sand – intro to tides

WEEK 2
M 4/6 LAB – Barnacles and their friends
T 4/7 Tides and Intertidal ecology (tide tables)
Th 4/9 Intertidal Ecology

WEEK 3
M 4/13 LAB – More Arthropods and mollusks
T 4/14 Biodiversity 1 – fish
Th 4/16 Biodiversity 2 – Birds and mammals

SATURDAY 4/18 FIELD TRIP TO OREGON COAST AQUARIUM, LOAD 7:45 BEHIND
GREEN CHEMISTRY LAB, DEPART 5PM, BRING LUNCH, RETURN ~5:30PM
WEEK 4
READING: Kozloff, Ch. 2, McLachlan & Ayres text portions (.pdf on website) & phylogeny reprint (.pdf on website)
M 4/20 LAB – Echinoderms
T 4/21 Biodiversity 3 – OVERVIEW of invertebrate diversity
Th 4/23 Biodiversity 4

WEEK 5
No new readings
M 4/27 NO LAB
T 4/28 Biodiversity 5 and exam prep
Th 4/30 Guest Lecturer _ Dr. Phil Gingerich, “Measuring geological time and dating the departure of ancient whales for the sea”

SUN. MAY 3RD, 2ND FIELD TRIP, load 7:45 behind green chemistry, depart 8AM, bring lunch. Return about 5:30 (RESCHEDULED FOR MAY 18)

Week 6
READINGS: Nybakken, Ch. 9, CH. 1 (PP.8-19); Ch. 11
M 5/4 LAB - cool new stuff, Urochordates, Nemrites, Platyhelminths
T 5/5 TREE OF LIFE DUE IN LAB
Th 5/7 Coral Reefs

Week 7
READINGS: Nybakken, Ch. 1 (pp 8-19); Ch. 2
M 5/11 LAB: Seashells and beachcombing;
MIDTERM DUE IN LAB
T 5/12 Circulation and Productivity (Coastal Upwelling)
Th 5/14 Primary Production (Seasonal Overturn & Equatorial Upwelling) & Primary Producers

SUN. MAY 16th, 2ND FIELD TRIP, load 7:45 behind green chemistry, depart 8AM, bring lunch. Return about 6:30

Week 8
READINGS: Nybakken: Ch. 2, Ch. 4, Handout
M 5/18 LAB: Plankton and seaweeds
T 5/19 Midwater animals and bioluminescence
Th 5/21 GUEST LECTURE: Dr. Craig Young, Deep-Sea Biology
CURRENT ASSIGNMENT DUE – PT 1 of FINAL

Week 9
READINGS: NYBAKKEN, Ch. 5, pp. 243-66; Ch. 9 (review) TBA
M 5/25 NO LAB – MEMORIAL DAY...
T 5/26 GUEST LECTURE: Paul Cziko – Polar Marine Biology
Th 5/28 Coral Reefs & Climate Change, 2nd part of final distributed
Week 10  Readings TBA
M 6/1  LAB NOTEBOOKS DUE, LAB PRACTICAL
T 6/2  Coral Reefs & Climate Change..
Th 6/4  Habitat restoration and conservation; science of marine reserves;
        PROJECTS DUE

FINAL DUE -- EXAM TIME 1PM JUNE 9,
        May be turned in early (June 4 in class with project

OTHER IMPORTANT DATES:
Sign up for field trip of your choice by the end of lab in week 2
Project proposals (1-2 paragraphs) due in lab, April 20
LAB PRACTICAL & LAB NOTEBOOKS DUE -- June 1
PROJECTS DUE in class June 4 (2% extra credit if turned in on time)
FINAL EXAM DUE ON EXAM DATE -- 1PM JUNE 9 in Classroom
        May be turned in early in class June 4

GRADING:
EXAMS -- 50%, 25% for each one, final is cumulative, will give better grade of the
average of the two exams or the grade on the final
PROJECT -- 20%
FIELD TRIP -- 5%
LAB -- attendance and notebook 15%, practical 10%