

Spring 2019 Online Syllabus
INTRODUCTION TO OCEANOGRAPHY
Cabrillo College

DATES	LECTURE TOPICS (Start and End dates for each topic will be posted in the Discussion. Please follow these dates closely, be flexible, some dates may change.)	Text Chapter & section #
1/26 - 2/6	Course Introduction and Overview; The Water Planet	1
2/7 - 2/13	History of Oceanography	Prologue
2/14 - 2/19	Bathymetry and Sea Floor Topography	3.1, 3.2
2/20 - 2/27	Sea Floor Spreading: The Origin of Ocean Basins	2
2/28 - 3/13	Marine Sediment	3.3, 3.4
3/14 - 3/18	Shoreline and Coastal Processes	Instructor Notes only
3/18 - 3/24	Properties of Water & Seawater Chemistry	5
4/6	MIDTERM EXAM IN LAB on April 6	
4/1 - 4/10	Winds, Currents and Ocean Circulation	Portions of 6 & 7
4/11 - 4/17	Waves	8

4/18 - 4/24	Tides	9
4/25 - 5/1	Marine Ecology	11
5/2 - 5/8	Production, Life and Plankton	12
5/9- 5/13	Nekton	13
12/15	Final Exam Wednesday Eve, May 15th, 6:00am-9:00 PM	

Laboratory Schedule: all labs are on Saturday mornings 9:00am - Noon

Lab #	DATE	TOPIC	Lab Workbook & Lab #
1	2/2	Unit Conversions and Sea Floor Geography (LH &DS)	1
2	2/9	Review material for Quiz #1: The Prologue & Chapters 1, Lab #1 and 1st two Sessions; Instructor Notes and Discussions. Lab: Bathymetry and Acoustical Sounding (DS)	2
3	2/16	Nautical Charts (LH)	3
4	3/2	Lab Quiz #2 covers Nautical Charts, Lab #2 and "Sea Floor Topography" from Instructor Notes and Discussion (LH)	
5	3/16	Beach Sand, Waves (DS)	5
6	4/6	Midterm Exam and Beach Sand Lab Intro (DS)	5 and 7
7	4/20	Finish Beach Sand & Waves, Begin Tides (DS)	7 and 8

8	5/4	Lab Quiz #3 on Beach Sand & Waves, Finish Tides (LH)	8
9	5/11	Lab Quiz #4 on Tides and Production, Life and Plankton, Lab on The Coastal Environment and Mystery Beach (LH)	9 and 10

Lab Project Due Dates

The following FOUR lab projects are worth 80 points, 20 points each.

Bathymetric Chart: 2/16

Beach Sand Chart: 5/4

Tide Chart and Plankton Chart: 5/11

Evaluation System:

Midterm Examination	100 points Saturday April 6th
Final Examination	100 points Wednesday May 15th
Laboratory Projects	80 points (3 projects, 20 points each)
Quizzes	~80 points (4 quizzes)
Discussions	250 points (quality and quantity graded by instructor)
	610 points total for the course
Final Grade in Course:	A = (89-100%)
	B = (79-88%)
	C = (67-78%)
	D = (58-66%)
	F = (less than 58%)

Community Activity + Short Report

Anyone enrolled in this course may choose to do the “Community Activity + Short Report” project. Upon successful completion of this project, 15 points (2.5% total) will be added onto your final score. You will need to perform at least one full day (6 to 8 hours +, arranged on your own time) doing some type of community activity to earn the 15 points. This activity must be verified and followed up with at least a one-page summary explaining the experience and relating it to the class. Working with Project MATE, Save Our Shores, Surfrider Foundation, The Coastal Watershed Council (CWC), Department of Fish and Game, Moss Landing Marine Labs, Long Marine Lab, CSUMB, Cal Poly, Cabrillo College Oceanography Department, attending seminars or going out to sea are some of our ideas. We encourage other ideas but all endeavors need to be approved by the Instructors before the work begins. The one page summary report is due two weeks after completion of the project. All community activity reports must be "Typed" not hand written.

ATTENDANCE, PARTICIPATION & POLICIES

Attendance is required at all lab meetings. Missing only one lab would put you seriously behind. If you can not attend a particular lab it is a good idea to e-mail Curt Olin in the WebCT hub or call or leave a message at 479-6495. Also, please arrive on time to labs. Everyone enrolled in Ocean 10 "Online" is **required to participate in the Online discussions** for each session. You will need to participate at least once for each discussion topic. Approximately 36% of your overall grade is based on the quality and quantity of your participation. You will lose points for a lack of participation.

No make-up quizzes, midterm or the final will be given unless there are verifiable barriers (death in family hospitalization / illness etc.). Pass / Non Pass (P/NP) is a grade option in this course. If you decide for the grade option, a signed written agreement must be given to David Schwartz. The deadline for the P/NP decision will be announced in class.

Disabilities

Students needing accommodations should inform the instructor. As required by the Americans with Disabilities Act (ADA), accommodations are provided to insure equal access for students with verified disabilities. To determine if you qualify or need assistance with an accommodation, please contact ACCESSIBILITY SUPPORT CENTER (Formerly DSPS), Room 1073, (831)479-6379.

Course Materials

Please bring colored pencils, lab workbook, and calculators to all labs. This is required.

Everyone enrolled is required to complete all lab exercises and projects and take all quizzes (including those given in lab and those given online). No make-up quizzes, midterm or final will be given. All labs are on Wednesday evenings from 6:30 - 9:30 PM at Cabrillo College in room 705. The lab schedule is listed above.

Required Texts

Both required books are available at the Cabrillo College Bookstore.

1. *Investigating Oceanography*, Sverdrup, K. and Kudela, R., 2015, McGraw Hill, 2nd edition.
2. *Introduction To Oceanography Lab Workbook*, Schwartz, D., Bloechl, W., Olin, C., 2018, 8th edition

Instructor Office Hours (Room 705C)

David Schwartz: **M/T/W 9:30 - 10:30am, TH: 9:30 - 10:30am & 12:45 - 1:45pm**

Learning Outcomes for Ocean 10

- 1) Analyze and interpret spatial information and data and construct and describe maps, charts and graphs relating to geological, chemical, physical and biological oceanography.
- 2) Solve simple word and numerical problems about oceanography using linear equations and conversion factors.