

GLY 150 Section 300 - Lecture for Introduction to Oceanography
Fall Semester 2009, T & Th, 09:30 - 10:45 , DeLoach Hall 120
&

GLY 280 Section 325 - Laboratory for Introduction to Oceanography
Fall Semester 2009, Wednesday, 14:00 - 16:50 , DeLoach Hall 222

COURSE SYLLABUS (Check Web Page for Updated Syllabus)

Instructor: [Dr. Lewis Abrams](#)

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Office Hours: 11:00 - 12:00, 16:00 - 17:00 TTh, 13:00-14:00 W (or by appointment)

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[Department of Geology and Geography](http://www.uncwil.edu/earscli/): <http://www.uncwil.edu/earscli/>

Textbook: [Essentials of Oceanography](#) (9th edition) by Thurman & Trujillo. Selected articles in [Scientific American](#) and [The New York Times](#). Bring textbook to all in class labs.

Academic Honor Code: The University's Honor Code is enforced in this class. Please do your own work. Complete details of the Code are in the current Student Handbook.

Attendance: Attendance is recorded in every lecture and lab. Students are responsible for all changes to the class schedule and assignments that are announced during lecture and lab (changes may or may not be updated on the web page). No unexcused absences for quizzes, exams, and lab fieldtrips.

Materials: 3-ring notebook with tabs to keep all labs and assignments organized. Notebook will be reviewed at the end of the semester. The laboratory will include five off-campus fieldtrips that will require transportation by car. Transportation can be arranged for students without access to a vehicle.

Grading: Lecture and lab are listed as separate courses. You will receive separate grades for the lecture and the lab, however, because the lab is mandatory I consider this (and so should you) a single 4 credit course. The lab is worth 50% of your overall course grade. In other words, you will receive identical grades for both lecture and lab.

Lecture Grades (50% of final course grade) will be based on :

- 1) Attendance and class participation (Come to class prepared to discuss assigned reading, 1 point each class = 10%)
- 2) In class quizzes based on lectures, assigned reading and class discussions (quizzes directly after we finish each chapter worth 15 - 25 points each = 80%).
- 3) Attend a seminar given in any science department (Geology, Biology, Chemistry, Physics) and write a 2 page (double spaced) summary of the seminar (15 points = 10%). **Seminar reviews are due no later than Tuesday, November 24, 2009.** See the following URLs for lecture schedule:
[Geology & Geography Seminar Series](#)
[Biological Sciences Seminar Series](#)
[Chemistry Seminar Series](#)
[Physics and Physical Oceanography Seminar Series](#)

Laboratory Grades (50% of final course grade) will be based on :

- 1) Completed pre-lab homework due at the beginning of each lab. Completed lab excersises due at the beginning of the following lab. (45%)
- 2) Mid-term lab exam (25%)
- 3) Final lab lab exam. (25%)
- 4) Lab Notebook (5%)

* Lab attendance is mandatory unless excused prior to lab by your doctor, dean, or coach. Unexcused absences can not be accomodated because it is not possible to "make-up" a research cruise or a fieldtrip.

Course letter grades will be assigned as follows:

<u>Percentage Score</u>	<u>Final Grade</u>
100 - 91	A
90.9 - 88	A-
87.9 - 84.1	B+
84 - 80.1	B
80 - 77	B-
76.9 - 73.1	C+
73 - 68	C
67.9 - 66	C-
65.9 - 63.1	D+
63 - 59	D
58.9 - 55	D-
54.9 - 0	F

TENTATIVE LECTURE SCHEDULE

Textbook reading - Thurman & Tuijillo 9th Ed.	Topics addressed
Chapter 10	Beaches and Shorelines,
Chapter 5	Water and Seawater
Chapter 9	Tides
Mon. Sept. 7 - No Classes	Labor Day
Chapter 3	Marine Provinces
Chapter 2	Plate Tectonics
Tues. Oct. 6 - No Classes	FALL BREAK
Chapter 8	Waves
Chapter 6 & Physical Science of Climate Change	Atmospheric Circulation - Air-Sea interactions
Chapter 7 & The Unquiet Ice	Ocean Circulation - Gulf Stream - El Nino
Chapter 4	Marine Sediments
Tues. Nov. 24	Seminar Reviews are Due
Wed. Nov. 25-27 - No Classes	THANKSGIVING BREAK
Wed. Dec. 2 - Last Class	
*Final Exam: Fri. Dec. 4	15:00 - 18:00 - Room DL 222

TENTATIVE LABORATORY SCHEDULE

Wednesday - 14:00 - 16:50	Topics - Download Pre-Lab Assignments and Labs here prior to Lab.	Pre-Lab reading - Thurman & Tuijillo 9th Ed.
Aug. 19	No Lab - first week of class,	none
Aug. 26 - Lab 1	Navigating Planet Earth with <i>Google Earth</i>	If you plan to use your personal computer in lab please download Google Earth prior to lab. Appendices I, II, III pg.487-493
Sept. 2 - Lab 2	Map Skills - Wrightsville Beach & Masons Inlet	Chapter 10
Sept. 9 - Lab 3	Fieldtrip to Wrightsville Beach & Masons Inlet Meet at 14:25 - Directions - Park at the North End of Wrightsville Beach next to Shell Island Resort	Chapter 10, Chapter 9 section 9.5, Chapter 5 sections 5.3 & 5.4
Sept. 16 - Lab 4	Fieldtrip to Masonboro Island - Research Vessel Humpback Directions - Park next to the Bridge Tender Restaurant	Chapter 10, Chapter 9 section 9.5, Chapter 5 sections 5.3 & 5.4
Sept. 23 - Lab 5	Fieldtrip to Ft. Fisher, Aquarium Directions - Ft. Fisher Aquarium "Behind the scenes tour". Please arrive at 2:50 PM sharp - shark feeding at 3:00 PM. Entry fee of \$7 includes full access to aquarium	Chapter 12
Sept. 30	Lab Mid-Term Exam	Review Labs 1-4
Oct 5 - 6	FALL BREAK - no lab	
Oct. 14 - Lab 6	Shape and geography of the seafloor	Chapter 3
Oct. 21 - Lab 7	Plate Tectonics	Chapters 2 & 3
Oct. 28 - Lab 8	Fieldtrip along the Intracoastal Waterway - Research Vessel Seahawk Map/Directions	Chapter 4
Nov. 4 - Lab 9	Fieldtrip to Aquaculture Laboratory, Wrightsville Beach Map/Directions	Chapter 13 Scientific American - Bluefin in Peril
Nov. 13 (Fri) - Lab 10	Geology Seminar - DL114 - 2 pm	TBA
Nov. 18	Lab Final Exam	Review all labs
Wed. Nov. 25 -	THANKSGIVING BREAK - no lab	