

Geology/ESci 226 Oceanography
REVISED LAB SCHEDULE FALL 2004

LAB WILL MEET IN GROTE 315

Instructor: Harold A. Climer

Office: Room 318 Grote Hall

Phone: 425-4546 (Physics Office) I do not have a phone of my own

Office Hours: Th. 9:30 - 10:30 AM

E-mail Address: Harold-Climer@utc.edu My Web Page: <http://oneweb.utc.edu/~Harold-Climer>

Lab meeting time

Environmental Science 226-001 F 1:00-2:50 PM Grote Hall Room 315

Geology 226-001 F 1:00-2:50 PM Grote Hall Room 315

Text: Anderson, F.E. (1998). Introductory Oceanography Laboratory Manual 3rd Ed., Kendall/Hunt Publishing, Dubuque, Iowa, 219 p.

List Of Labs

| <i>Week Number</i> | <i>Week Of</i> | <i>Lab Title</i> |
|--------------------|-------------------|--|
| 1 | 8/23/04-8/27/04 | Introduction and Library Visit/Search |
| 2 | 8/30/04-9/03/04 | Lab 1 Coastal Navigation |
| 3 | 9/6/04-9/10/03 | Individual meetings with instructor |
| 4 | 9/13/04-9/17/04 | School Closed Hurricane Ivan |
| 5 | 9/20/04-9/24/04 | Lab 2 Geography of Marine Environment LRS #1 Due |
| 6 | 9/27/04-10/01/04 | Lab 3 Bathymetry Part 1 |
| 7 | 10/04/04-10/08/08 | Lab 3 Bathymetry Part 2 *Lab 4 Sea Floor Spreading LRS #2 |
| 8 | 10/11/04-10/15/04 | Lab 5 Tides (handout) |
| 9 | 10/18/04-10/22/04 | Fall Break NO LABS |
| 10 | 10/25/04-10/29/04 | *Lab 6 Freezing of Ocean Water W.P. LRS #3 Due |
| 11 | 11/01/04-11/05/04 | Lab 7 Estuarine Tidal Prisms |
| 12 | 11/08/04-11/12/04 | **Lab 8 Marine algae & microorganisms LRS #4 Due |
| 13 | 11/15/04-11/19/04 | Lab 9 Productivity |
| 14 | 11/22/04-11/26/04 | Class Presentation LRS #5 Due |
| 15 | 11/29/04-12/03/04 | Thanksgiving NO CLASS |

* Computer lab.

** Sketching various types of algae: microscope lab looking at various types of plankton.

This schedule is tentative and is subject to equipment availability and the discretion of the instructor.

ITEMS REQUIRED FOR LAB

Lab manual, pen, mechanical pencil (HB lead), soft gray eraser, clear plastic ruler, and a Scientific Calculator.

INSTRUCTIONS

ATTENDANCE

Attendance is required. Come to the lab ON TIME. Do not depend on the clocks in Grote Hall, they are usually not correct. You must have the required items with you each time you come to lab. At the beginning of each lab I will give a short introduction to the lab.

Please read over the lab before you come to class and also check in your text or a library source for more detailed information about the subject of that day's lab.

ATTENDANCE: Missed Labs

If you miss a lab you must bring a note from the Doctor or equivalent to ask for a make-up no later than the next lab session after your return to school. Failure to do this will result in a grade of zero for that missing lab. If you know ahead of time that you will miss a lab because of some event you are involved in, let me know before the fact and arrangements can be made for a make-up time. **You must make up the lab within 10 days from the time you return to school, unless other arrangements have been made with your lab instructor.**

The deadline for making up any lab is November 26th.

WHAT IS EXPECTED OF YOU

We will have 13 lab sessions. One of those sessions will be devoted to individual meetings with the instructor to discuss your selection of topics for both your *Library Research Summaries* (Hereafter referred to as LRS) as well as possible topics for your in-class presentation. Try to complete all lab exercises in class, if possible. **Note the Bathymetry Lab will take two consecutive lab sessions. The first will mainly consist of collecting data and the second session will be used for analysis of the data.** If the labs are not completed in class, they will be due at the beginning of the next lab session. One other session will be devoted to your in-class presentation.

Several of the lab exercises in the lab manual will be hands-on labs. For example, one will involve measuring the differences of the freezing points of sea & fresh water samples using the computer. Others are just paper and pencil labs.

LIBRARY RESEARCH SUMMARIES

Students will also be required to submit 5 *Library Research Summaries* (Hereafter referred to as LRS) of articles they have read in various magazines, journals etc. about subjects in current oceanographic research. A list of possible topics will be given to each student on the first day of class. **Find articles 7 years old or less.**

These summaries should not be less than two and one-half pages (Double spaced) nor more than 4 pages. **Use Microsoft Word and Times New Roman 12 Point font. All margins are to be one inch.**

Note: The summaries are to satisfy the 10% or greater writing component required in this course. In class presentations cover the oral communications requirement.

IN CLASS PRESENTATION

In addition to the summaries that you turn in to me, each student will give one 5-10 minute class presentations about one of the articles read. **This presentations must be over a topic not turned in as a LRS.** The presentations will be given on 21st of November.

For the presentation the student will use some visual aid to get the major points of the article across to the audience. Posters, overhead transparencies, slides, or computer programs like Power Point may be used to facilitate this. Please let me know at the individual meetings as to what you expect to do, so that I can have the equipment available on the 21st of November.

COURSE EVALUATION

Lab exercises and hands on labs 50% 5
Library Research Summaries 30%
Class presentations 20%

If you have a disability which may require assistance or accommodations, or you have questions related to any accommodations for testing, note takers, readers, etc..., please speak with your instructor as soon as possible. You may also contact the Office of Student Affairs (425-4534) with questions about such services.