

BIOLOGY 4412 – SPRING 2007 - MWF at 12:00

Date	Lecture Topic	Reading assignment
Jan. 17, 19 & 22	General Introduction, Salinity & Osmoregulation	Chapter 1 & 2, pp. 40-49, 74-77, 250-254
Jan. 24	Marine Habitats	24-38, 222-223, Chap. 11 Chap. 12, pp. 341-343
Jan. 26 & 29	Currents & Tides (in lab)	49-55, 229-232, 326-338, 56-61
Jan 31, Feb. 2 & 5	Phytoplankton, Algae & Sea Grasses	312-313, 316-317, 326-338, 93-97, Chap. 6
Feb. 7, 9 & 12	Forams, Radiolarians & Sponges	97-99, 113-116
Feb. 14, 16, 19 & 21	Cnidaria & Ctenophora	116-120, Chap. 14
Feb. 23 (Fri.)	<b>FIRST HOUR EXAM</b>	
Feb. 26, 28, Mar. 2-19	Mollusca	124-130, 344
Mar. 12-16	<b>SPRING BREAK</b>	
Mar. 21, 23 & 26	Annelids	122-124
Mar. 30	<b>FIELD TRIP TO SOUTH PADRE ISLAND</b>	
Mar. 28, 30, Apr. 2 & 4	Crustaceans & other Marine Arthropods	130-134
Apr. 6	<b>GOOD FRIDAY</b>	
Apr. 9 (Mon.)	<b>SECOND HOUR EXAM</b>	
Apr. 11 & 13	Echinoderms	136-139
Apr. 16	Hemichordata, Urochordata, Cephalochordata & Chaetognatha	140-141, 136
Apr. 18 & 20	Marine Fishes	Chap. 8
Apr. 23	Marine Reptiles	171-175
Apr. 25 & 27	Marine Mammals & Birds	178-200, 175-178
Apr. 30, May 2	Zooplankton	214-220, 313-319 325-338, 348-351
May 4	Marine Pollution Select Topic	Chapter 18
May 7 (Mon. 1:00-3:00)	<b>FINAL EXAM</b>	

Textbook: *Marine Biology* by Castro & Huber (5th Edition-3rd or 4th Edition will do).  
There is no formal lab manual for this course.

## BIOLOGY 4412

Grading - Your grade in this course will be determined in the following manner. Each of the three hour exams is worth 25% of your final numerical average. The remainder of your grade will be determined by the average of your three laboratory exams. This lab average is also worth 25%. Your grade will be determined solely by these six exams. Your hospitalization is the only excuse for missing a scheduled lecture or laboratory exam. Students participating in off-campus University excused activities will be required to complete exams before departing the University campus. There is no additional make-up work and participation in the field trip will not result in an improvement nor adjustment in your final average. Excessive absenteeism will affect your final grade in this course and is discussed below.

Attendance - You are allowed three absences during the course of this semester. These three absences are considered excused (no questions asked). Each additional absence in excess of these three will be considered unexcused and will result in the loss of one point each from your final numerical average at the end of the semester. Example - 13 absences will result in the loss of a letter grade from your final average. Attendance is defined as being present when the roll is taken at the beginning of the class period. Students who are continually tardy to class will be considered absent and will consequently receive a lowering of their final average. The same rule applies to students who depart class without obtaining prior permission. Cell phones and beepers should be left at home or in the lab - do not bring them to class. Additionally, no food nor drink is allowed to be consumed during the class period as this is distracting to other students. This class meets too close to the lunch hour for this to be permitted.

Field Trip - Due to the loss of dormitory space at the coast site and the rising cost of university van expenses, it is no longer possible to take all members of the class on the collecting trip to the Gulf of Mexico. Current travel space will accommodate only eight students on the field trip. Those eight students with the highest lecture and laboratory averages on the first exams will be eligible to participate in the field trip. Should an eligible student not be able to go on the field trip, then the person with the next highest average (#9) will be allowed to attend. A student with a high average will not be allowed to give his or her "spot" to another student. Excess absenteeism will be factored into those student averages wishing to attend the field trip. In the case of a "numerical tie" between two students, the selection will be decided by a coin toss. Participation in the field trip will not improve your final average in the course. Students participating in the field trip will, however, be required to make collections of common mollusc shells and algal herbarium mounts. These collections will be turned in, graded, and returned to you. Failure to properly make these collections will result in the loss of a letter grade from the student's final average.

Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook. Persons with disabilities which may warrant academic accommodations must contact the Student Life Office, Room 112 University Center, in order to request such accommodations prior to any accommodations being implemented. You are encouraged to make this request early in the semester so that appropriate arrangement can be made.

Learning Outcomes – Students are expected to acquire both a knowledge and understanding of the physical, chemical, and biological characteristics of the marine environment. Special emphasis will be given to the marine and estuarine environments of the western Gulf of Mexico.

# **BIOLOGY 4412 - BIOLOGICAL OCEANOGRAPHY**

## **LABORATORY SCHEDULE**

### **SPRING - 2007**

- Jan 17 - Microscope use & misuse
- Jan 24 - Tide Exercise & Salinity Determination
- Jan 31 - Phytoplankton, Algae & Sea Grasses
- Feb 7 - Forams, Radiolarians & Sponges
- Feb 14 - Cnidaria & Ctenophora
- Feb 21 - **FIRST LAB PRACTICAL**
- Feb 28 - Mollusca
- Mar 7 - Marine Aquariums
- Mar 14 - **SPRING BREAK**
- Mar 21 - Mollusca (cont.)
- Mar 28 - Annelids & Crustaceans
- Mar 30 - **FIELD TRIP TO SOUTH PADRE ISLAND - DEPART FRIDAY & RETURN LATE SUNDAY**
- Apr 4 - **SECOND LAB PRACTICAL**
- Apr 6 - **GOOD FRIDAY**
- Apr 11 - Echinoderms
- Apr 18 - Chordates
- Apr 25 - Zooplankton
- May 2 - **FINAL LAB PRACTICAL**

## **LECTURE EXAM SCHEDULE**

- Feb 23 (Fri.) - FIRST HOUR EXAM
- Apr 9 (Mon.) - SECOND HOUR EXAM
- May 7 (Mon.) - FINAL EXAM (1:00 to 3:00)