

Marine Biology Lab

Spring 2022

General Information

Class Days/Times: W 2:00 – 5:00 pm
Instructor: Dr. Deanna Soper
Office, Phone, and e-mail: Science Building 140, 972-721-5245, dsoper@udallas.edu
Dr. Soper's Office Hours: Wednesday 12 – 2pm; OR by appointment
Text: Karleskint, Turner, and Small. 2013. Introduction to Marine Biology. Cengage Learning. ISBN-10: 1-133-58980-4.

Mask Policy

Masks are required in *all* biology laboratory classes. There are no exceptions. Masks need to be worn properly.

Cell Phone Policy

Cell phones and tablets can be helpful tools during the learning process. However, it is important to use them wisely. Texting, talking on your phone, and e-mailing during lab may result in deduction of points (amount is at the discretion of Dr. Soper) from your total score at the end of the semester. Use of your cell phone at all during a quiz or test will result in a zero on that assessment.

Introduction

In this laboratory you will use hands-on activities to explore broad concepts in marine biology. In this course, you will also learn hands-on skills practiced by marine biologists. You will also use hands-on activities to learn about the concepts, which include:

- Physical and chemical properties of marine water
- Animal Diversity
- Reproductive and behavioral habits of some marine organisms
- Social behaviors of fish
- Observational skills practiced by marine biologists through a trip to the aquarium & observation of a marine tank in class
- Ecological concepts that are important for life in the marine environment

Assessments

Lab Reports (filled out pages from lab manual) (20 points per lab; 11 labs – one will be dropped)

You will turn in the pages at the end of the lab that should include filled in data, observations, and answers to all questions.

Aquarium Lab Report (100 points)

You will first observe marine animals at the aquarium. You will then conduct library research on that chosen species. You will write a report on that species, which will include the following details:

- biological background of the species
- observations from the aquarium
- any threats to the species in the wild, including human impact

Your report should be 2,000 – 2,500 words and should include at least three peer-reviewed journal sources and at least two reputable website sources (i.e. a college webpage – if someone is researching that species; governmental website like the department of natural resources, etc.).

Grading

<u>Item</u>	<u>Quantity</u>	<u>Number of Points</u>	<u>Total Points</u>
Lab Reports (lowest dropped)	11	20	200
Aquarium Lab Report (Draft worth 20 points; Final Draft worth 80 points)	1	100	100
<u>Total</u>			300

<u>Grading Scale</u>		77 – 79.4	C+
100 – 97.5	A	73 – 76.9	C
89.5 – 92.4	A-	69.5 – 72.9	C-
87 – 89.4	B+	67 – 69.4	D+
83 – 86.9	B	63 – 66.9	D
79.5 – 82.9	B-	59.5 – 62.9	D-
		<59.5	F

Academic Honesty

PLEASE NOTE: Although you will be collecting data each week in pairs or groups, EACH person should turn in their own lab papers. Every work turned in should be original to the person turning them in. Plagiarism will result in a zero for the assignment and will be reported to the Dean.

Students are expected to maintain academic honesty through avoiding plagiarism and cheating. See the University of Dallas' policy on Academic Honesty at:

http://www.udallas.edu/about/university-policies/academic_policies/academic-honesty.php

Other Policies

Students Requiring Special Accommodations

If you are in need of academic support because of a documented disability (whether it is psychiatric, learning, mobility, health related, or sensory), you may be eligible for academic accommodations through disability services for students. Contact the ADA Coordinator in the Human Resources Department, Carpenter Hall, Room 223, 972-721-4054.

Withdrawing from the Course

A student who is unable to complete a course may withdraw and receive a grade of "W" through the tenth week of the semester. Students should consult with their instructor and advisor before withdrawing from a course.

Attendance Policy

Because this is a laboratory course, students **MUST attend all. Any absence will result in loss of points for that week** because once the class has collected data for that lab we will not go back and repeat it. After three absences you will receive an "F" for the course. **Please note that there are NO excused absences.**

General Rules and Expectations for the Course

1. Students are required to read the labs each week prior to coming to class. This will assist in making the lab run more efficiently.
2. Assignments will be completed by the specified deadlines. The instructor is under no obligation to accept late assignments and can assign a score of zero points. Late assignments accepted by the instructor may be penalized 50% of the assignment's total value.
3. Students will conduct themselves in a courteous and responsible manner in class and keep scholastic integrity (see Academic Honesty).
4. Students have one week to challenge the grade given to an assignment, presentation, exam, or quiz. After one week, the grade is final.
5. Students are expected to check their University E-mail accounts and Brightspace on a regular basis for additional messages related to the course. Please use University E-mail accounts when communicating with the instructor electronically.
6. Students who are performing unsatisfactorily in the course are expected to discuss their performance with the instructor. The instructor is available by appointment outside of class to review course material and discuss strategies to improve performance.
7. The course schedule is subject to change. Deletions and substitutions in the syllabus schedule may occur.

Change of Grade

The only reason for which a change of grade may be requested is an error in the original recording of the grade. Students are obliged to check their transcripts and consult with their instructors if there is a question of error. **The appeal for a change of grade must be made in the first three weeks of the semester following that in which the course was taken.** THIS MEANS YOU MAY NOT REQUEST A GRADE BUMP OR EXTRA CREDIT.

Course Schedule*

Date	Lab	Due
January 26 th	Introduction to the course, Library Research	
February 2 nd	Lab 1: Marine Mammals & Reptile Movements (Lab 12) – computer lab	
February 9 th	Lab 2: Ph, Salinity, and Ocean Acidification (Labs 4 & 5)	Lab 1 Due at beginning of class to T.A.
February 16 th	Lab 3: Marine Microbes (Lab 7)	Lab 2 Due at beginning of class to T.A.
February 23 rd	Lab 4: Taxonomic Classification (Lab print out given to you)	Lab 3 Due at beginning of class to T.A.
March 2 nd	Aquarium Visit – Meet at the Dallas Aquarium you can either car pool or take the DART – more info in class. Entry fee: 20.95\$	Lab 4 Due at the beginning of class, if you don't want to travel with it drop it off in the Bio Office prior to leaving campus.
March 9 th	Lab 5: Macroalgae (Given to you)	
March 16 th	NO CLASS – SPRING BREAK	
March 23 rd	Lab 6: Porifera & Cnidaria (Lab will be given to you.)	Lab 5 Due at beginning of lab to T.A.; <u>Draft of Aquarium Report Due (T.A. will grade)</u>
March 30 th	Lab 7: Mollusks (Lab 8)Lab	Lab 6 Due at beginning of lab to T.A. - Drafts returned from TA
April 6 th	Lab 8: Echinoderms (Lab will be given to you.)	<u>FINAL DRAFT of Aquarium Report DUE via Brightspace by 2pm</u>
April 13 th	Lab 9: Fish Niche (Lab 10)	Lab 7 & 8 Due at beginning of lab to T.A.
April 20 th	Lab 10: Tropical Community Ecology: Biodiversity Estimation (Lab will be given to you)	Lab 9 Due at beginning of lab to T.A.
April 27 th	Lab 11: Fishing Down the Food Chain (Lab 15) – computer lab	Lab 10 due at beginning; Lab 11 due by end of class

*changes to the schedule may occur if unforeseen circumstances present themselves.