Welcome to my Class!

Bio 20 – Marine Biology

Spring 2023

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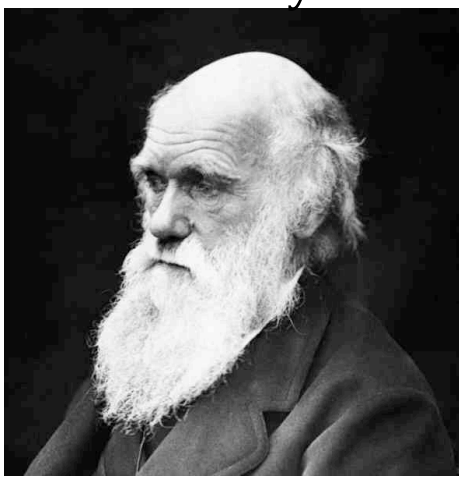
Professor of Biology
Mt. San Antonio College
CRN# 40670



Contact Information:
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Office location: building 60-2104
Office Hours: T 2:40-4:40pm
Wed 6-7 and 8:10-9:10 via ZOOM
This course is online with required synchronous meetings via zoom
W 7-8:10pm

Course Description:
Marine environment including the principles of marine science, biology of marine invertebrates and vertebrates, structure and function of marine ecosystems, and human impact on the ocean. Field trip required.

Points Possible	
Lec/Lab Quizzes (9x30) (1 dropped)	**240**
Lecture Final	**80**
Pandemic Learning Challenges (PLC's): 5x10 points teach)	**50**
Virtual Field Trip	**30**
	400

*** subject to change based on holidays or other changes, Pandemics, etc.**

Grading Scale

≥90%	A
80-89%	B
70-79%	C
60-69%	D
<60%	F

Important Dates:

Required Zoom Meetings W 7-8:10
FINAL EXAM W#16 7:30pm

On Holidays, asynchronous activities may be substituted

Quizzes will be given and due at the beginning of class except on holidays. On holidays, the due date will be 24 hours later.

CRN = #40670

Wk.	DATE	TOPIC	Topic	Book Chp	DUE
1	22-Feb	A	Intro, Scientific Method, History	1 & 3.1	
2	1-Mar	B	Fundamentals of Biology	4	
3	8-Mar	C	Marine Microbes & Marine Producers	5 & 6	Quiz #1 (A); PLC#1
4	15-Mar	D	Invertebrates I	7	Quiz #2 (B-C)
4	15-Mar	E	Invertebrates II	7	PLC #2
5	22-Mar	F	Marine Fish I	8	Quiz #3 (D-E)
6	29-Mar	G	Marine Fish II	8	Quiz #4 (F)
7	5-Apr	H	Marine Reptiles & Birds	9	PLC #3
8	12-Apr	I	Marine Mammals I	9	Quiz #5 (G-H)
8	12-Apr	J	Marine Mammals II	9	Quiz #6 (I)
9	19-Apr	K	Physical Oceanography	2 & 3.2-3.3	PLC #4
10	26-Apr	L	Marine Ecology	10	Quiz #7 (J-K)
11	3-May	M	Tides and Estuaries	11 & 12	
12	10-May	N	Continental Shelf	13	PLC #5
13	17-May	O	Coral Reefs	14	Quiz #8 (L)
14	24-May	P	Resources from the Sea	17	Virtual FT Due
15	31-May	Q	Human Impacts	18	Quiz #9 (N-Q)
16	7-Jun		FINAL EXAM		FINAL!

Check your Mt. SAC email!!!

The fine print…

1) This entire course will be taught online based on Covid19 Pandemic guidelines.
THERE ARE required weekly online Zoom meetings based on your class time (in real time). You MUST attend these meetings to complete the class. Students missing more than 2 required zoom meetings may be dropped. During our zoom meetings students are required to have a functioning web camera turned on and a microphone for communication.
2) The instructor reserves the right to make any necessary changes to this syllabus or to any part of the class without prior warning. Pandemics included!

2) Please notify me immediately if you have require accommodations (for example, due to disabilities or health issues of any sort). Our Accessibility Resource Center for Students (also called ACCESS) is also available to assist any needs you might have.
3) The use of cell phones is prohibited in class.

4) SLO's related to this course can be found at www.mtsac.edu

5) It is the student's responsibility to officially drop the course should they stop attending. Failure to do so may result in an "F" grade.

6) Incomplete's are only given in special circumstances; students must meet all requirements as defined by the college before an incomplete is considered.

7) The professor keeps all exams and quizzes. Students may not take pictures or copies of any exam or quiz or the student may receive an "F" in the course.

8) Check your Mt. SAC email often for important messages from the Professor.

9) Cheating and plagiarism will not be tolerated. Students will receive a zero on any test/quiz/assignment for which cheating was noted. Students may also receive an "F" in the course.

10) Success is highly dependent on student motivation and early intervention. If you are not receiving the grade you would like, seek help IMMEDIATELY AND OFTEN by speaking with the professor.

11) No make ups are given for quizzes, exams or assignments.

12) Labs and assignments are due at the beginning of class. After that time, they are late and worth ½ credit maximally. After one week, no credit will be given for late work.

13) Any grade dispute must be handled within one week upon the return of the quiz, assignment or exam in question.

14) Email me or stop by with questions. Be sure to include your name and the class you are in so I can answer your question quickly.

Assignments:

Quizzes – Quizzes will be done online during the scheduled time. During zoom meetings times, students must have access to a web cam and a microphone.

Lecture and Lab Final. The Lecture and Lab Finals will be similar in structure to the quizzes. They will be individual work and no late work will be accepted.

PLC Pandemic Learning Challenges – These are assignments that student will do individually or sometimes in groups. They are designed to show the application of what you have learned or to demonstrate the use of particular scientific equipment or skills.

Zoom Class Meetings – This class will some required synchronous zoom meetings. During these meetings you will need to have a video camera and a microphone for communication.

In Class Quizzes – Each week you will take a quiz based on the material in the book, short lectures given in lab, lecture assignments, and lab assignments. Each quiz will be worth 30 points and may consist of true/false, multiple choice, matching and short essay style questions. No make-up quizzes will be given. All quizzes will be given in the first 20 minutes of class only. If you are late, you will not be allowed to take the quiz.

Final Exam-The final exam will be in the same format as the regular class quizzes. Generally, if you do well on your quizzes you should do well on the final exam.

Measurable Objectives and SLO's:

1 Students will be able to distinguish organisms that belong to class Chondrichthyes (fishes with a cartilaginous skeleton) form organisms that belong to class Osteichthyes (fishes with a bony skeleton).
2 Students will be able to describe two major differences between vertebrate and invertebrate marine organisms.
3 Students completing relevant assignments in Area B courses will evaluate the impact of science on their daily live
4 Students will be able to differentiate between the major phyla of marine organisms.
5 Students will be able to explain factors that influence winds, currents and tides.
6 Students will be able to identify dominant invertebrates and vertebrates associated with the southern California coast.
7 Students will be able to summarize ecological principles associated with marine ecosystems.
8 Students will be able to explain the process of plate tectonics and its significance in marine environments.
9 Students will be able to evaluate the biological and political factors that are associated with overfishing.
10 Students will be able to compare and contrast the geological, physical, and chemical aspects of the marine environment and explain how marine organisms adapt to each aspect.
11 Students will be able to analyze the limiting factors of oceanic provinces.