

**Mt. San Antonio College**  
**Marine Biology: BIOL 20 Spring 2018**

**Lecture:** Mon - Wed 3:00pm-4:25pm, Bldg.11, Rm.2312

**Instructor:** Tyler Flisik

**Contact info**

Email: tflisik@mtsac.edu

**Office and office hours**

Mon-Wed 1:00 - 2:00pm

Tue -Thurs 9:45 - 10:45am

Building 60, Rm 2407

Office phone # 909 274-4554

**Required Text**

*Marine Biology* 10<sup>th</sup> Ed. Castro and Huber

**Required Supplies**

Scantrons: (5)-Form #882, (10)-Form #815-E

**Website**

www.Tylerdiscoverslife.com



**Course Description:** A non-majors course that explores a wide range of concepts, including scientific thinking, biological chemistry, cell structure and physiology, plant and animal structure and function, biodiversity, evolution, adaptations, ecology and human impacts to the environment.

**Keys for Success:** The study of marine biology, even at a general level, can be very complex. Your success in this class is dependent on the effort that you put into this class. I teach this class at a college level and I expect that you will study and prepare at a college level. I will not lower my standards just to make the class easy for you. I believe if you show up for every class, spend time studying at home, and come to my office hours if you need help, that you will pass this class without much of a problem.

Don't hesitate to ask for help, that's why I'm here!

**Points Possible**

There is a total of 670 points possible

Lecture			Grading Scale	
Homework Assignments	2 x 20 pts	40	≥90%	≥603 pts = <b>A</b>
Biology Articles	4 x 5 pts	20	≥80%	≥536 pts = <b>B</b>
Quizzes (Best 6 of 10)	6 x 5 pts	30	≥70%	≥468 pts = <b>C</b>
Presentation		30	≥60%	≥402 pts = <b>D</b>
Field Trip		50	<60%	≤401 pts = <b>F</b>
Exams	4 x 100 pts	400		
Final Exam		100		
Total points		670 pts		

- The lowest exam score can be replaced by the percent score of the lecture final if it is higher
- More than six lecture quizzes will be given, however, only the six highest score will be counted. Missed quizzes will be dropped
- 20% of the total points will be deducted from late assignments

“Seen in the light of evolution, biology is, perhaps, intellectually the most satisfying and inspiring science. Without that light it becomes a pile of sundry facts—some of them interesting or curious but making no meaningful picture as a whole”

– Theodosius Dobzhansky (1973)



## Marine Biology Tentative Schedule

<b>Week</b>	<b>Date</b>	<b>Topic</b>	<b>Chapter(s)</b>
1	26-Feb	The Science of Marine Biology	1
	28-Feb	The Sea Floor	2
2	5-Mar	Chemical and Physical Features of Seawater; Quiz #1	3
	7-Mar	The Fundamentals of Biology	4
3	12-Mar	The Fundamentals of Biology; Quiz #2	4
	14-Mar	The Microbial World	5
4	19-Mar	<b>Exam #1</b>	<b>1-4</b>
	21-Mar	Multicellular Primary Producers	6
5	26-Mar	Marine Invertebrates; Quiz #3	7
	28-Mar	Marine Invertebrates	7
6	2-Apr	Marine Invertebrates; Quiz #4	7
	4-Apr	Marine Fishes	8
7	9-Apr	<b>Exam #2</b>	<b>5-7</b>
	11-Apr	Marine Fishes	8
8	16-Apr	Reptiles and Birds; Quiz #5	9
	18-Apr	Reptiles and Birds	9
9	23-Apr	Marine Mammals	9
	25-Apr	Marine Mammals; Quiz #6	9
10	30-Apr	<b>Exam #3</b>	<b>8-9</b>
	2-May	Between the Tides	11
	6-May	Aquarium of the Pacific Field Trip	
11	7-May	Estuaries: Where Rivers Meet the Sea	12
	9-May	Life on the Continental Shelf; Quiz #7	13
12	14-May	Coral Reefs	14
	16-May	Life Near the Surface; Quiz #8	15
13	21-May	The Ocean Depths	16
	23-May	The Ocean Depths; Quiz #9	16
14	28-May	Memorial Day Holiday - Campus Closed	
	30-May	<b>Exam #4</b>	<b>11-16</b>
15	4-Jun	Humans Impacts on Marine Environments	17-18
	6-Jun	Review for Final Exam; Quiz #10	
16		<b>Lecture Final, Jun 11th, 4:30-7:00pm</b>	<b>Comprehensive</b>

"Education is when you read the fine print. Experience is what you get if you don't."

- Pete Seeger

## The Fine Print

**Lecture exams and quizzes** - You will have four lecture exams and a comprehensive final exam. I will replace your lowest exam score with the percentage of your final if it's higher. There are no make-up exams or quizzes. If you miss an exam or lecture quiz, then that will be the exam or quiz I drop.

**Presentation:** Working with a partner you are going to present on a topic of your choosing that relates to marine biology. I must approve your topics before you present! Your presentation should inform the class and instructor (me) about a marine organism, ecological process, human impacts, or current research that you find interesting. Presentations should be no more than 10 minutes long and should be done using Microsoft Powerpoint. All sources and photos should be properly cited and the presentation should use college-level vocabulary that can be understood by your peers. At the end of each presentation, presenters must include two questions for the class to discuss and answer. Presentation schedules will be determined the second week of class.

**Field trip:** We have one mandatory field trip to the Aquarium of the Pacific in Long Beach on Sunday, May 6<sup>th</sup>. The admission fee will be \$8.50, which is a reduced rate for the Aquarium (regularly \$29.90), and parking in the structure next to the aquarium is \$8.00. The field trip is mandatory and those who fail to attend will not pass the class.

**Academic Integrity** - Any act of cheating will not be tolerated, and will result in a zero on that quiz, exam or assignment. You are fully capable of completing all assignments on your own and are expected to do so. If you have questions, ask your instructor!! I want to help you achieve a complete understanding of the material and will help you accomplish that. All students are to abide by the expectations outlined in the department cheating policy form and will be held accountable for any violations of those policies.

**Cell phones** – I know it's tempting to look at your phone every 3 seconds and check your Facebook or whatever but please save that for your breaks. If you need to make a phone call please step out of class. The labs are designed to keep you busy the entire lab period and any cell phone use within the lab will be seen as a lack of participation. If you use our cell phone during an exam or quiz, I will assume you're cheating and will confiscate your test and give you a 0 on the assignment. I will not tolerate cell phone use within the lab and will take points off your participation score if you are seen using your phone during lab. If you **need** to use your phone then please step outside of the lecture or laboratory.

**Disabled Student Programs & Services (DSP&S):** 909-274-4290. Offers eligible students a variety of disability related services, such as priority registration, counseling, note takers, sign language interpreters, enlargement of materials, and other reasonable accommodations based on the student's educational limitations and needs. Please notify your instructor immediately if you require special health or disability accommodations.

### Student Learning Objectives and General Education Outcomes –

- Students will be able to distinguish organisms that belong to class Chondrichthyes (fishes with a cartilaginous skeleton) from organisms that belong to class Osteichthyes (fishes with a bony skeleton).
- Ecological Principles. Students will be able to summarize ecological principles associated with marine ecosystems.
- Students will evaluate the impact of science on their daily life
- Students will be able to identify dominant invertebrates and vertebrates associated with the southern California coast.
- Students will be able to analyze the limiting factors of oceanic provinces.
- 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.
- Students will be able to evaluate the biological and political factors that are associated with overfishing.
- Students will be able to differentiate between the major phyla of marine organisms.
- Students will be able to explain the process of plate tectonics and its significance in marine environments.
- Students will be able to describe two major differences between vertebrate and invertebrate marine organisms.
- Students will be able to explain factors that influence winds, currents and tides.
- For clarity on the SLO's and GEO's for this course please visit [www.mtsac.edu/instruction/outcomes/sloinfo.html](http://www.mtsac.edu/instruction/outcomes/sloinfo.html)

"We learn . . . 10% of what we read, 20% of what we hear, 30% of what we see, 50% of what we see and hear, 70% of what we discuss, 80% of what we experience, 95% of what we teach others."

~ William Glass

**Mount San Antonio College**  
**Biological Sciences Department Policy on Student Cheating**

**POLICY**

1. No dictionaries, reference materials, notes, or programmable calculators may be used during any exam or quiz unless authorized by the professor.
2. No electronic devices, of any type, may be used during any exam or quiz unless authorized by the professor. a. Electronic devices include, but are not limited to: cell phones, PDAs (personal digital assistants, earphones, cameras, MP3 players, translation devices, and electronic dictionaries.
3. No talking, signaling, sharing of note cards, calculators or other materials is allowed during any exam or quiz, unless authorized by the professor.
4. Only the materials required or authorized for an exam or quiz should be taken out of your notebook, backpack, pocket, or purse. All other materials should be put away as instructed, including electronic devices.
5. Students may not leave the classroom during an exam or quiz unless authorized by the professor. If a student leaves the room without permission, the test or quiz will be forfeited at that time.
6. This policy will be strictly enforced by all professors in all classes taught in the Department.

**CONSEQUENCES:**

7. A single act of cheating or academic dishonesty in any form may result in as much as receiving an "F" in the course.
8. Action taken by the professor will be consistent with the college policy on cheating and academic dishonesty. In addition, a report regarding the violation will be submitted to the Director of Student Life for further action, which may also result in further disciplinary action, including, but not limited to suspension or expulsion from the college.

**WHAT IS CHEATING?**

Some examples of cheating include, but are not limited to:

- a. Plagiarism, which is the use of materials authored by another person or obtained from a commercial source or the use of passages without proper acknowledgment.
- b. Having or using unauthorized materials during any exam or quiz
- c. Notes concealed in or written on clothing, hats, or skin (as examples).
- d. Looking at another student's work during any exam or quiz.
- e. Changing answers on a returned exam in order to claim there had been a grading error.
- f. Sharing any content of exams or quizzes with individuals who have not yet taken it.
- g. Removing an exam or quiz from the classroom without the professor's approval.
- h. Taking photos of exams, quizzes, completed ScanTrons®, or exam keys.
- i. Turning in work that was generated by other individuals or by the same individual but in a prior semester, including but not limited to: lab report data, lab report or homework questions, homework assignments, and extra credit assignments.
- j. Working together on a lab experiment when told to work individually.
- k. Falsifying lab data.
- l. Allowing another student to look at your exam or quiz, or allowing another student to copy your homework, lab reports, or other assignments. (If that work is duplicated you may also receive the same penalties listed above for violation of the Biology Department Policy on Cheating, and the college policy on cheating and academic dishonesty.)
- m. Falsifying documents, including signatures. If you are unclear about what constitutes cheating in your class or for a particular assignment, please contact your instructor for clarification before the assignment is due