MARS 3450 Marine Biology

Fall 2019

8/12/2019

PROFESSOR:

Dr. Brian Binder
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706-542-6408
bbinder@uga.edu

Office Hours:
Mon 3:00-4:00
Thurs 3:00-4:00
or by appointment (please email)

CLASS MEETINGS: Mon, Wed, Fri 1:25-2:15 Marine Sciences rm 239

TEXT:

"Marine Biology: Function, Biodiversity, Ecology" 5th edition, by Jeffrey S. Levinton

Other readings may be assigned, and will be available on eLC

GRADING:

Course grades will be based on 3 in-class exams and a (non-cumulative) final (22% each), and in-class quizzes/activities/presentations (12%; see In-Class Exercises, below).

Letter-Grades: The following is a general guide for letter-grade assignment in this course. The exact correspondence between calculated number grades and assigned letter-grades is at the discretion of the course professor.

		89.99 – 87.00	B+	79.99 – 77.00	C+	69.99 – 60.00	D
100 – 93.00	A	86.99 – 83.00	B	76.99 – 73.00	C	< 60.00	F
92.99 – 90.00	A−	82.99 – 80.00	B−	72.99 – 70.00	C−*		

*Please be aware that a C− does not satisfy the BIOL requirement for a C or better in major courses.

IN-CLASS EXERCISES:

There will be approximately 12 in-class exercises over the course of the semester. One of these will involve a 5-minute group presentation on a topic of your choosing (details to be provided later). The remaining exercises will usually be unannounced and may include short quizzes (about the day's lecture material), surveys, one-minute papers, group exercises, etc. The lowest 3 exercise grades, excluding the presentation, will be dropped from the grade calculation. No make-ups will be available for in-class exercises.

ON-LINE RESOURCES:

Updated class schedule and readings, lecture notes, exam grades, and administrative information will be posted on eLC (https://uga.view.usg.edu/).

ATTENDANCE POLICY:

Attendance will not be taken. However you must be in attendance to earn credit for in-class exercises.

MAKE-UP EXAM AND EXTRA CREDIT POLICIES

Make-up exams will only be offered in cases of serious medical or personal circumstances that prevent a student from taking the regularly scheduled exam. Any student who finds him/herself in this situation should contact Dr. Binder before the regularly scheduled exam if at all possible, and in any case not more than 24 h after the exam. Documentation from a health care provider (in the case of illness), or other sources as appropriate, will be required. The decision to offer a make-up exam is at the sole discretion of Dr. Binder.

No make-ups will be available for in-class exercises.

No extra credit is available for this course.

ACADEMIC HONESTY:

As a University of Georgia student, you have agreed to abide by the University's academic honesty policy, "A Culture of Honesty," and the Student Honor Code. All academic work must meet the standards described in "A Culture of Honesty" found at: https://honesty.uga.edu/Academic-Honesty-Policy/. Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.

Honesty is fundamental to everything we do at the University: all meaningful learning and research is predicated on academic honesty. Academic dishonesty harms and degrades your classmates and teachers, and it ultimately harms and degrades you. If you have any questions regarding what constitutes honest or dishonest behavior, Dr. Binder will be happy to discuss these issues with you.

Suspected cases of academic dishonesty will be pursued according to the policies outlined in "A Culture of Honesty."

CELL PHONES AND OTHER PERSONAL ELECTRONIC DEVICES:

Cell phones should be silenced during lectures! Please be considerate of your fellow classmates and your instructor, and don't engage in phone conversations or texting during class.

Laptops are currently permitted during lectures, but their use should be restricted to appropriate class-related activities (e.g. note-taking). Laptop use in the classroom is a privilege, not a right, and this privilege may be revoked if it is abused.

During exams, the use of cell phones, laptops, and all other personal electronic devices is expressly prohibited.

SYLLABUS DISCLAIMER

This course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.

Updated lecture schedules and other changes will be announced in class and posted on eLC as necessary. Information posted on eLC takes precedence over all previously announced or posted information.

COURSE DESCRIPTION:

Study of marine organisms and the environments they inhabit; diversity of marine organisms, primary and secondary production in marine habitats, ecological interactions in marine environments, and management concerns.

PREREQUISITES: BIOL 1108/1108L or BIOL 2108H/2108L and
CHEM 1212/1212L or CHEM 1312H/1312L

EXPECTED LEARNING OUTCOMES

1. Students will be familiar with marine organisms, including microbes, plants, and animals.
2. Students will be familiar with coastal and oceanic marine ecosystems.
3. Students will understand how marine organisms interact with each other and their environment.
4. Student mastery of the material will be measured by 3 exams, a comprehensive final exam, and in-class activities.

LECTURE SCHEDULE (with readings from 5th edition)

Subject to Change! (Check eLC periodically for updates) **Last Updated:** *8/12/19*

Date		Topic	Readings, Levinton 5th ed. (Chapt : pages)
8/14	Wed	Intro. to Marine Biol	1:10-11
8/16	Fri	Ocean Basins, Seawater	2:12-21,24-26
8/19	Mon	Ocean Currents	2:21-24
8/21	Wed	Tides	2:28-30
8/23	Fri	Primary Producers (1)	8:145-149
8/26	Mon	Primary Producers (2)	13:260-267
8/28	Wed	Marine Primary Production (1)	11:219-228; 12:243-247
8/30	Fri	Marine Primary Production (2)	"
9/02	Mon	Labor Day	
9/04	Wed	Marine Bacteria	8:145-147,156-157; 13:256-257
9/06	Fri	Marine Invertebrates (1)	8:149-157; 9:159-161; 14:268-295
9/09	Mon	Marine Invertebrates (2)	"
9/11	Wed	Marine Invertebrates (3)	"
9/13	Fri	**Exam 1 (covers 8/14-9/9)**	
9/16	Mon	Marine Invertebrates (4)	"
9/18	Wed	Marine Fishes (1)	9:161-170
9/20	Fri	Marine Fishes (2)	"
9/23	Mon	Marine Fishes (3)	" ; 5:86-92
9/25	Wed	Marine Reptiles	9:185-188
9/27	Fri	Sea Birds	9:179-185
9/30	Mon	Marine Mammals (1) [*on-line lecture*]	9:171-179; 10:193-195
10/02	Wed	Marine Mammals (2)	"
10/04	Fri	Marine Mammals (3)	"
10/07	Mon	Food Webs & Ecological Energy Transfer	12:239-243
10/09	Wed	Rocky Shore Ecosystems(1) [*on-line lecture*]	16:317-334
10/11	Fri	**Exam 2 (covers 9/11-10/4)**	
10/14	Mon	Rocky Shore (2)	"
10/16	Wed	Salt Marshes and Mangroves	16:341-352
10/18	Fri	Beaches & Mudflats	16:334-338
10/21	Mon	Estuaries	16:352-358; 5:86-88 [rvw]
10/23	Wed	Kelp and Sea Grass Ecosystems	17:365-382
10/25	Fri	Coral Reef Ecosystems	17:382-407
10/28	Mon	Surface Pelagic Ecosystems	11:211-217
10/30	Wed	Deep Pelagic Ecosystems	10:192,195-197,201-209
11/01	Fri	Fall Break	
11/04	Mon	Deep Benthos	18:409-425
11/06	Wed	Hydrothermal Vent Ecosystems	18:425-431
11/08	Fri	**Exam 3 (covers 10/7-11/4)**	
11/11	Mon	Marine Biodiversity	20:445-461,466-469
11/13	Wed	Social Behavior & Symbioses	4:52-54; 17:383-386,393-394
11/15	Fri	*Depart for Sapelo Island Field Trip*	
11/18	Mon	Migration & Navigation	7:120-125
11/20	Wed	Marine Pollution	22:504-526
11/22	Fri	Fisheries (1)	21:471-494
11/25	Mon	Fisheries (2) [*on-line lecture*]	"
11/27	Wed	Thanksgiving	
11/29	Fri	Thanksgiving	
12/02	Mon	Global Climate Change (1)	3:38-45; 22:526-529
12/04	Wed	Global Climate Change (2)	"
12/09	Mon	**Final Exam 12:00-12:50 (covers 11/6-12/4)**	