

MARS 1020 Biology of the Marine Environment

Spring 2019

1/4/2019

PROFESSOR:

Dr. Brian Binder
 Marine Sciences Bldg rm. 290A
 706-542-6408
bbinder@uga.edu

Office Hours:
 Mon 3:00-4:00
 Thurs 10:30-11:30
 or by appointment (please email)

LAB COORDINATOR:

Dr. Catherine Teare Ketter
 Marine Sciences Bldg rm. 110J
 706-583-0862
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Office Hours:
 Please see the MARS 1020L Syllabus

CLASS MEETINGS:

Lectures: Mon., Wed., Fri. 1:25 – 2:15 Miller Learning Center rm. 102
 Labs: (as scheduled) Marine Sciences Bldg rm. 139

TEXTS:

Castro & Huber, Marine Biology (11th ed.) (10th ed. is OK)
 Wisehart, Rempala, & Leboffe, A Photographic Atlas of Marine Biology
 Top Hat license is required as well (see In-Class Exercises, next page)

GRADING:

Exams = 60% of course grade

Exams may cover material from lectures, assigned readings, and labs. Generally speaking, material covered in lectures is emphasized.

Exam 1	15%	covering 1 st quarter of the course (see Class Schedule)
Exam 2	15%	covering 2 nd quarter
Exam 3	15%	covering 3 rd quarter
Final Exam	15%	covering final quarter

Labs = 40% of course grade (Attendance is mandatory – see MARS 1020L Syllabus)

See MARS 1020L Syllabus for Lab grading policies.

In-class exercises = extra credit, up to 2 pts on final course grade (see details below)

Letter-Grades: The following is a general guide for letter-grade assignment in this course. The exact correspondence between calculated number grades (see above) 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-		

IN-CLASS EXERCISES:

In-class exercises will use the Top Hat student response system. Top Hat works with any web-enabled device (laptops, smartphones, tablets, etc.), and with text-capable phones. **Students must purchase a Top Hat subscription (\$18 for a semester) to participate in in-class exercises.** We will start using the system in class on **Wednesday 1/16/19**.

Information about Top Hat, including a link to the Quick Start Guide, can be found at <http://wwwctl.uga.edu/top-hat/students>. A subscription invitation will be sent to your UGA email account after the first lecture. (If you don't receive this email, or don't want to wait, you can register by visiting www.tophat.com: click on the SIGNUP button in the upper right hand corner, and then select Student. You will be prompted to enter the 6-digit join code for this course [= 123949] or you can search for the course.)

In-class exercises will be offered as part of most lectures. They may include questions or short quizzes, surveys, one-minute papers, etc., most of which will be administered via Top Hat. Grading will be based on a combination of participation and answer correctness. Full credit will be awarded to students with 80% or more of the total possible points over the course of the semester. Below this threshold, extra credit will be awarded based on your actual in-class exercise grade. This means that it is worth your while to keep that grade above 80%! This threshold will be adhered to rigorously. No make-ups will be available for in-class exercises.

ON-LINE RESOURCES:

Updated class schedule and readings, lecture notes and study guides (when available), exam grades, and administrative information will be posted on eLC (<https://uga.view.usg.edu/>). Note that there are separate eLC pages for the Lecture (MARS 1020) and for the Lab (MARS1020L).

MAKE-UP EXAM AND EXTRA CREDIT POLICIES

Make-up exams will be offered only in cases of serious medical or other personal emergencies 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 (beyond that earned through in-class exercises) is available for the lecture portion of this course.

See the MARS 1020L syllabus for information concerning make-up and extra credit policies for the lab section of the course.

STUDENTS WITH DISABILITIES:

Students with disabilities who require accommodations in order to participate in course activities or meet course requirements should contact Dr. Binder (Lectures/Exams) and/or Dr. Teare-Ketter (Labs).

COURSE WITHDRAWALS:

Students withdrawing from the course before the semester's withdrawal deadline will be assigned a grade of W. Withdrawals after the deadline are not permitted except in cases of significant personal hardship as determined by the Office of Student Services. See the UGA Withdrawal Policy for further information (<https://reg.uga.edu/general-information/policies/withdrawals/>).

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.

Sharing the daily Top Hat attendance code or other Top Hat exercise information with a student who is not in the classroom is a violation of the academic honesty standards.

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, Dr. Teare-Ketter, and your TAs stand ready to discuss these issues with you – please feel free to contact any of us.

Suspected cases of academic dishonesty will be pursued vigorously, according to the policies outlined in "A Culture of Honesty." Consequences for honesty violations can range from a 0 on the affected work, to an F for the course, to expulsion from the University. **Do not risk your academic future!**

CELL PHONES AND OTHER PERSONAL ELECTRONIC DEVICES:

Cell phones should be silenced during lecture and lab class periods. Please be considerate of your fellow classmates and your instructor, and don't engage in phone conversations or texting (beyond Top Hat participation) during class.

Laptops are currently permitted during lectures, but their use should be restricted to appropriate class-related activities (e.g. note-taking, Top Hat participation). 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 distributed information

LECTURE SCHEDULE
with Readings from 11th Edition

Subject to Change! (Check eLC periodically for updates)

Last Updated: 1/07/19

Date	Topic	Readings, Castro & Huber 11 th ed.
9-Jan Wed	Introduction	Ch 1
11-Jan Fri	Classification & the Tree of Life	Ch. 4: 68-71, 79-83
14-Jan Mon	Marine Primary Producers	Ch. 5: 88-89, 93-97, 100
16-Jan Wed	Primary Producers (2)	Ch 6
18-Jan Fri	Photosynthesis & Respiration	Ch. 4: 65-68; Ch. 10: 231-35
21-Jan Mon	Martin Luther King, Jr. Day	
23-Jan Wed	Energy Flow in Ecosystems; Bacteria	Ch. 10: 226-29; Ch. 5:85-93
25-Jan Fri	TBA	
28-Jan Mon	Invertebrates 1	Ch. 5: 97-100; Ch. 7
30-Jan Wed	Invertebrates 2	Ch. 7 (cont.)
1-Feb Fri	Invertebrates 3	"
4-Feb Mon	Invertebrates 4	"
6-Feb Wed	Evolution (1)	Ch 4: 73, 78-80; Ch. 9: Fig 9.17, Box 9.2; Ch. 10: 216-19
8-Feb Fri	Exam-1 (covers 1/9 - 2/4)	
11-Feb Mon	Evolution (2)	"
13-Feb Wed	Marine Fishes (1)	Ch. 8; Ch. 15: 355-57, Box 15.2
15-Feb Fri	Marine Fishes (2)	"
18-Feb Mon	Marine Fishes (3)	"
20-Feb Wed	Marine Reptiles	Ch. 9: 179-84
22-Feb Fri	Seabirds	Ch. 9: 184-88
25-Feb Mon	Marine Mammals (1)	Ch. 9: 188-213
27-Feb Wed	Marine Mammals (2)	"
1-Mar Fri	Marine Mammals (3)	"
4-Mar Mon	Adaptations to Life in the Sea	Ch 4: 71-76; Ch 8:166, Fig 8.18
6-Mar Wed	Exam-2 (covers 2/6 - 3/1)	
8-Mar Fri	Ocean Basins	Ch 2
11-Mar – 15-Mar SPRING BREAK		
18-Mar Mon	Seawater	Ch 3: 40-48
20-Mar Wed	Ocean Currents	Ch 3: 48-56
22-Mar Fri	Currents (2) and Waves	Ch 3: 56-57, Box 3.3
25-Mar Mon	Tides	Ch 3: 57, 60-62
27-Mar Wed	Rocky Intertidal Community	Ch. 11: 252-68
29-Mar Fri	Salt Marshes & Mangroves	Ch 6: 113-15 (rvw); Ch. 12
1-Apr Mon	Seagrass & Kelp Communities	Ch 13: 304-315
3-Apr Wed	Marine Pollution (1)	Ch. 18: 422-24; Ch 10: 243-45; Ch 15: Box 15.1 ('Red tides')
5-Apr Fri	Marine Pollution (2)	Ch. 18: 424-30, Box 18.4
8-Apr Mon	Exam-3 (covers 3/4 - 4/3)	
10-Apr Wed	Coral Reefs	Ch. 14; Ch. 18: 420-21
12-Apr Fri	Ocean Surface Community; El niño	Ch. 15: 343-52, 360-71
15-Apr Mon	Deep-Sea Communities	Ch. 16: 373-91
17-Apr Wed	Oceanography (Photo-expedition)	
19-Apr Fri	Hydrothermal Vent Communities	Ch 16: 391-93
22-Apr Mon	Marine Fisheries (1)	Ch. 17:395-408; Ch. 10: 246-48
24-Apr Wed	Marine Fisheries (2)	"
26-Apr Fri	Oceans & Global Climate Change (1)	Ch. 10: 237-43
29-Apr Mon	Global Climate Change (2)	"
3-May Fri	Final Exam (covers 4/5 – 4/29) 12:00 – 1:00 PM	