

SUMMER
2021



MARINE BIOLOGY

ZOO 4403C

ONLINE EDITION

*See Canvas for a fully-detailed, text-only syllabus

Dr. Melissa Meadows

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Zoom Office: <https://ufl.zoom.us/j/3066712046>

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Zoom Office Hours

MTR 2:30 - 4 PM
BY APPOINTMENT

Reserve your spot:
<https://tinyurl.com/yxnkyl96>

WHAT WILL I LEARN?

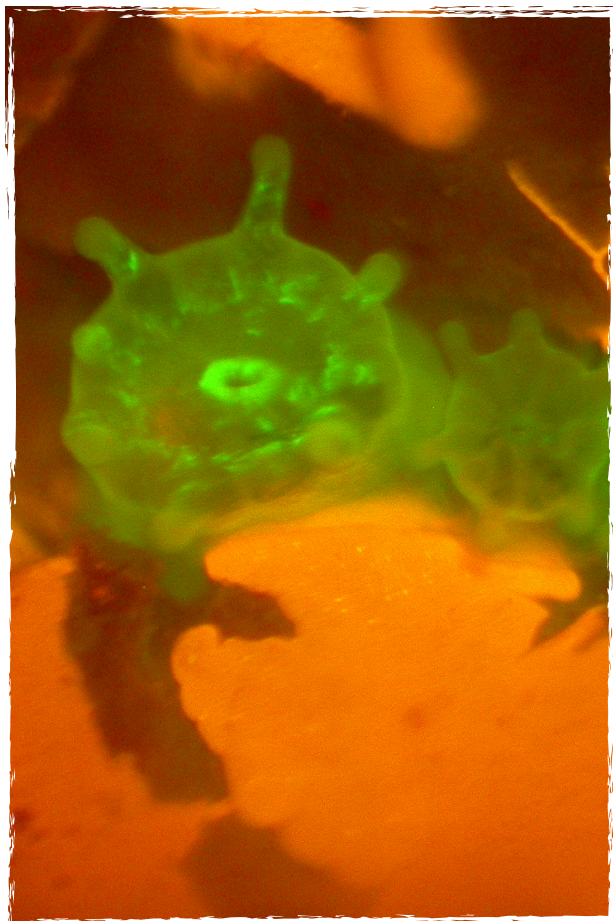


Only all the most AWESOME things about the ocean! In this course, you'll learn about all sorts of marine organisms as well as important aspects of physical oceanography that dictate much about the lives of the ocean's denizens. We will talk a bit about ocean ecology as well.

Most importantly, you'll be equipped to face some of the greatest challenges to our Earth by educating and working towards a better, more informed future.

Plus we'll read a really funny (and informative!) book!

(See Canvas for a full list of learning objectives.)



What will I need?

eTextbook through McGraw-Hill Connect: Marine Biology (11th Ed.), Castro & Huber, 2019, McGraw-Hill.

Fun Book through Perusall: Sex in the Sea: Our Intimate Connection with Sex-changing Fish, Romantic Lobsters, Kinky Squid, and Other Salty Erotica of the Deep, by Marah J. Hardt, 2016, St. Martin's Press.

UF All-Access - get all required materials here!

Optional Field Guides: Suggestions on Canvas

Canvas: Set preferences in Canvas so you receive timely notifications of course announcements.

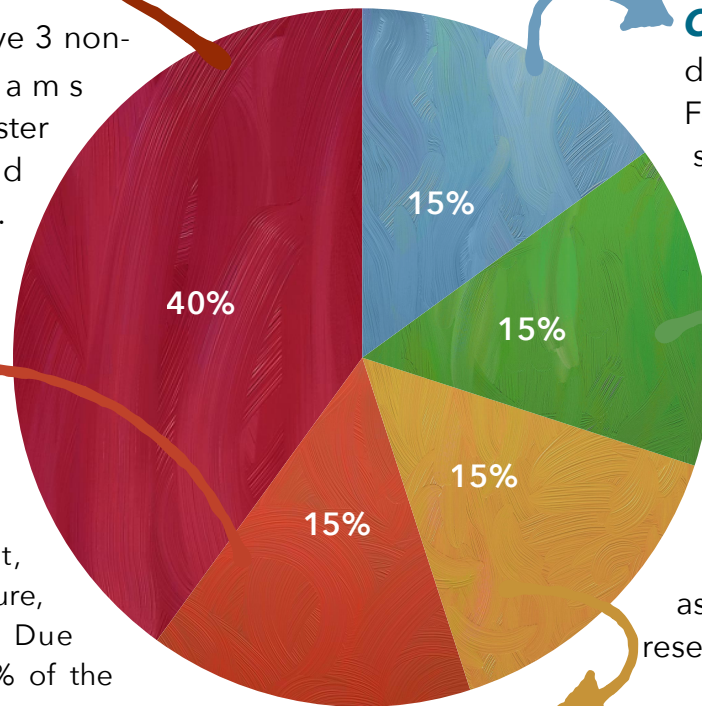
How will my learning be assessed?

Course grades will be weighted as follows:

Exams We will have 3 non-cumulative exams throughout the semester on topics discussed during lecture. Together, exams worth 40% of the final grade.

Assignments & Participation

McGraw-Hill Connect, Interactive Video Lecture, and other activities. Due Sundays 11:59 PM. 15% of the final grade.



Sex & the Sea Book Club

Participate in discussions on each chapter. For each chapter, one student group will lead the discussion. Discussions due Sundays 11:59 PM. Worth 15% of the final Grade.

Research Proposal

Propose a novel research project as a group on a topic of your choice! Give a presentation as if you are asking for funding for your research.

Lab and Field Activities

Select 3 self-directed field, experiment, virtual dissection, and other possible activities. Submit reports with observations, data, and ideas. Complete throughout the semester. 3 due dates throughout the semester (see schedule).

GRADE SCALE

A	≥ 93.00%
A-	≥ 90.00%
B+	≥ 87.00%
B	≥ 83.00%
B-	≥ 80.00%
C+	≥ 77.00%
C	≥ 73.00%
C-	≥ 70.00%
D+	≥ 67.00%
D	≥ 63.00%
D-	≥ 60.00%
E	< 60.00%

ATTENDANCE

This is a small class, and if you aren't completing assignments on time, I'll worry, especially during the COVID-19 pandemic. If you have a planned conflict, discuss it with me in advance. If there is an unforeseen circumstance, please let me know as soon as possible. I know that special circumstances may come up during this difficult time, and we will stay in communication to ensure your success. Please see the UF policy for excused absences here: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

No make-up exams without prior permission or documentation of illness. Students missing an exam due to a university-approved excused absence should let the instructor know in advance. In case of illness or emergency on exam day, students must submit documentation here: <https://care.dso.ufl.edu/instructor-notifications/> and request a letter be sent to the instructor.

WHAT OTHER POLICIES SHOULD I FOLLOW?



What is expected in class?

PARTICIPATE. Ask questions. Connect with one another in the Canvas Study Rooms for each module. Meet your instructor during office hours. We are a community of learners even though we are online.



How will we celebrate diversity?

We need diversity of opinion, social class, culture, religion, sexual orientation, gender, race, ethnicity, and ability in science. Enjoy the diverse scientists you learn about. Ask why diversity is lacking. Maintain an environment of respect and inclusion at all times. Listen and learn from all.



What if I have a disability?

Contact the Dean of Students Office of Disability Resources, Peabody 202, 352-392-1261. I will work with them to accommodate you. More info: <https://disability.ufl.edu/>.



What if I need to withdraw?

The add/drop deadline is Wednesday 5/11. The last day to withdraw from a course with a W on your transcript is 7/30. Dates and Deadlines: <https://catalog.ufl.edu/UGRD/dates-deadlines/2020-2021/>

WHAT IF I NEED HELP?



Questions and Concerns

If you don't understand something or are concerned about a grade, talk to me ASAP. Do not wait until a failed exam. Zoom appointments (MTR 2:30-4) or emails work!



Emailing Instructors

I will respond to you within 24 hrs during the week. After 5 on Fri I will not respond until Mon. Be professional in tone and expectations. Please do not expect an immediate response. Melissa.Meadows@ufl.edu



Come visit!

Make an appointment for Zoom Office Hours - you'll get to reserve me all for yourself. :) Make an appointment: <https://tinyurl.com/yxnkyl96> Email for an appointment at another time.



U Matter, WeCare!

ASKING FOR HELP IS A SIGN OF STRENGTH. We are living through historical difficulty. If you or a friend is in distress, contact umatter@ufl.edu. More info: <https://umatter.ufl.edu/>. Or contact the Counseling and Wellness Center at (352) 392-1575. <https://counseling.ufl.edu/>

tips for SUCCESS



01 **ATTEND AND PARTICIPATE**

Studies show that the more you discuss, draw, analyze, and actively participate in class, the more you learn!

02 **READ**

Read assigned reading before lecture for each module. Then use lectures to hone understanding and apply your knowledge.

03 **TAKE NOTES**

Do not be a passive listener! Take active notes while watching lectures, especially on questions asked in the lecture.

04 **ASK QUESTIONS**

Ask immediately. Don't be afraid to ask me to meet and go over something again! Chances are, others need a clarification, too (which I can post as an announcement)!

05 **USE YOUR RESOURCES**

Use this syllabus to answer questions about the course and locate help when you need it. Use Canvas. Use BOOKS.

06 **PLAN AHEAD**

Plan 12-16 hrs/wk, including 6 hrs for lecture, discussion, and lab and 6-10 hrs on reading, assignments, and studying. Don't start studying or projects at the last minute.

07 **STUDY EFFECTIVELY**

Visit learningscientists.org to learn the 6 strategies for effective learning. Guess what the first one is? NO CRAMMING!

08 **I CARE!**

I am deeply invested in YOU and your happiness and success. Email me, make an appointment for office hours, etc. to go over course material, talk about life, or just say hi!

Schedule



ACADEMIC HONESTY

Any acts of cheating, plagiarism, or other forms of academic dishonesty will result in, at minimum, a 0 grade for the assignment or test. Sharing information about tests or homework answers with students in future or past classes, or posting on social media information about same, is a serious act of academic dishonesty. If you witness any instances of academic dishonesty in this class, please notify the instructor or contact the Student Honor Court (392-1631) or Cheating Hotline (392-6999). For additional information on Academic Honesty, please refer to the University of Florida Student Honor Code and Student Conduct Code at: <https://sccr.dso.ufl.edu/process/student-conduct-code/>

Week of	Lecture Topic	Chapter	Sex in the Sea
5/10	Module 1: The Science of Marine Biology	1	Complete Introduction to Sex in the Sea; Sign up to lead discussion of your favorite chapter!
5/17	Module 2: The Sea Floor	2	
5/24	Module 3: Chemical and Physical Features of Seawater and the World Ocean (Part 1)	3	Ch 1: The Quest: Seeking Sex in Saltwater (book club)
5/31	Module 4: Chemical and Physical Features of Seawater and the World Ocean (Part 2)	3	Ch 2: Luring a Lover: The Art of Salty Seduction
EXAM 1 (CH 1 - 3) FRIDAY 6/4; MODULE 4 DUE			
6/7	Module 5: The Microbial World and Multicellular Primary Producers	5, 6	Ch 3: Sex Change in the Sea

*Mock Research Proposal Topic Discussion and Group Choice by **Sunday 6/13***

First Lab and Field Activity DUE by Sunday 6/13

6/14	Module 6: Marine Animals Without a Backbone (Part 1)	7	Ch 4: The Penis Chapter: Sex as a Contact Sport
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*Mock Research Proposal Group Meeting by **Sunday 6/20***

SUMMER BREAK week of 6/21

Schedule Continued...

Week of	Lecture Topic	Chapter	Sex in the Sea
6/28	Module 7: Marine Animals Without a Backbone (Part 2)	7	Ch 5: Inner Chambers: Influencing Sex from the Inside Out

EXAM 2 (CH 5 - 7) FRIDAY 7/2; MODULE 7 DUE

Mock Research Proposal Group Meeting With Dr. Meadows by **Friday 7/2**

7/5	Module 8: Marine Fishes (Part 1)	8	Ch 6: Oceanic Orgies: Getting it on in Groups
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Mock Research Proposal Synopsis Due **Sunday 7/11**

Second Lab and Field Activity DUE by Sunday 7/11

7/12	Module 9: Marine Fishes (Part 2)	8	Ch 7: Synchronized Sex: A Neighborly Affair
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Mock Research Proposal Videos Due **Sunday 7/18**

7/19	Module 10: Marine Reptiles, Birds, and Mammals (Part 1)	9	Ch 8: Turning up the Sex Drive: How to Spark Successful Sex at Sea
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Mock Research Proposal Presentations Groups 1-4, Peer Review Due **Sunday 7/25**

7/26	Module 11: Marine Reptiles, Birds, and Mammals (Part 2)	9	
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Mock Research Proposal Presentations Groups 5-8, Peer Review Due **Sunday 8/1**

Third Lab and Field Activity DUE by Sunday 8/1

8/2	Module 12: Introduction to Marine Ecology and Our Changing Planet	10	
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EXAM 3 (CH 8 - 10) FRIDAY 8/6; MODULE 12 DUE

DUE DATES

All assignments for each module are due on Sundays at 11:59 PM except for a few other exceptions where noted on Canvas.