

**Fundamentals of Marine Sciences****GLY3083C Spring 2021****14359 04H4****14360 04HB****26639 05H5****26640 05HB****(Dr. John Jaeger - Course Coordinator)****Course Catalog Description**

Introduction to the basic disciplines of the marine sciences, including geology, chemistry, physics, biology and conservation, with an emphasis on marine research. Includes two or three mandatory one-day weekend field trips.

**Course Objectives**

This course will build on the material covered in Introduction to Oceanography (OCE1001). The goal is to cover the fundamentals and the broad range of disciplines encompassed in Marine Sciences and provide a sense of research opportunities within this field. To achieve this objective this course will be team-taught to provide exposure to expertise in several different disciplines. The laboratory portion of the course will include exercises specific to an instructors research focus and three virtual field experiences.

**Course Meeting Times**

*Lecture:* Tuesday and Thursday period 3-4 (9:35 am-11:30 am) (Note: most lectures will be during Period 3)

*Lab:* Section 04H4/05H5 Monday periods 3-4 (9:35 am-11:30 am)

Section 04HB/05HB Wednesday periods 5-6 (11:45 am – 1:40 pm)

**Course Meeting Locations**

Lecture: Williamson Hall (WM) 210

Lab: Williamson Hall (WM) 210/218

**Exam dates**

There is no final exam for the course. There are three exams that cover the material introduced by the instructor for that time period. They are not cumulative. The exam dates are:

Thursday, February 11

Thursday, March 11

Tuesday, April 20

**Course coordinator** (contact regarding any logistical questions)

Dr. John Jaeger

jmjaeger@ufl.edu

Williamson 225

Tuesday 2-3 pm

**Instructor Contact Information**

<u>Course Instructors</u>	<u>Email</u>	<u>Office location</u>	<u>Office Hours</u>
Dr. Melissa G. Meadows	melissa.meadows@ufl.edu	510 Carr Hall	By appointment
Dr. Maitane Olabarrieta	maitane.olabarrieta@essie.ufl.edu	575G Weil Hall	By appointment
Dr. William Patterson	will.patterson@ufl.edu	136 Newins-Ziegler Hall	By appointment

Course TA (contact regarding any laboratory and grading questions)

Nicole Greco                      nicolegreco@ufl.edu                      Williamson 263      Mon 12:00-1:30

**Email communication**

All email correspondence to course instructors must be from your ufl.edu account, have your full name in the body of the email, and contain your course and section number in the subject line. Emails not meeting these requirements may not be recognized by our email filters, and thus may not be answered.

**Course Website**

Course materials, grades, and related information will be posted on the course E-Learning (Canvas) website at <http://lss.at.ufl.edu>. You are responsible for all announcements made in class and/or posted on the course website for this course.

**Required Textbook**

*Essentials of Oceanography* by Tom Garrison (2011, Brooks Cole, ISBN: 0840061552). This is the same textbook that is used for Introduction to Oceanography.

**Attendance Policy**

The participation portion of your grade for this class will be calculated on the basis of your attendance and your participation in class activities. Since the pedagogical approach of this course depends heavily on student engagement and interaction, you are required, at a minimum, to participate in class activities through the audio function of Zoom. Your video presence is invited as well.

Our class sessions may be audio visually recorded for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials is prohibited.

*Make-up Exams:* No make-up exams will be given without prior permission or documentation of illness. In case of illness, a letter from the student's primary care provider is required. This letter must state that the student was unable to complete the exam on the scheduled date (i.e., a letter stating only that the student was seen in a clinic is not sufficient). A personal matter requires a note from the Dean of Students (P202 Peabody Hall).

Requirements for class attendance and make-up exams, assignments, and other work are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

**Grading:**

- 3 Exams.....15, 10, 10% (highest exam counts for 15%) = 35%
- 4 Laboratory Exercises (#2-5) .....4,7,7,7 % = 25%
- Term paper .....30%
- Virtual field trips.....10%

If you would like to discuss a grade you received on an assignment or exam, this must be completed within 2 weeks of the assignment/quiz being handed back.

**Grading Scale**

Point Range (%)	Letter Grade	GPA equivalent
≥ 93.00	A	4.0
90.0 – 92.9	A-	3.67
87.0 – 89.9	B+	3.33
83.0 – 86.9	B	3.0
80.0 – 82.9	B-	2.67
77.0 – 79.9	C+	2.33
73.0 – 76.9	C	2.0
70.0 – 72.9	C-	1.67
67.0 – 69.9	D+	1.33
64.0 – 66.9	D	1.0
60.0 – 63.9	D-	0.67
< 60.0	E	0

Note that a “C-“ will not be a qualifying grade for critical tracking courses. In order to graduate, students must have an overall GPA and an upper-division GPA of 2.0 or better (C or better). Note: a C- average is equivalent to a GPA of 1.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit: <http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

**Course Content**

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<b>Week</b>	<b>Week of</b>	<b>Instructor</b>	<b>Lecture Topic</b>	<b>Laboratory Exercise</b>	<b>Exams</b>
1	1/11/21	Jaeger	<i>Marine Geology: Course overview, The ocean floor</i>	<i>No Lab Meeting</i>	
2	1/18/21	Jaeger	<i>Marine Geology: Marine Tectonics</i>	<b>Lab 1:</b> Science Communication	
3	1/25/21	Jaeger	<i>Marine Geology: Marine Sediments</i>	<b>Lab 2:</b> Mapping the Ocean Floor	
4	2/1/21	Jaeger	<i>Marine Chemistry: Seawater composition &amp; the carbon cycle</i>	<i>No Lab Meeting</i>	
5	2/8/21	Jaeger	<i>Marine Chemistry: Nutrient Cycling</i>	<b>Lab 3:</b> Marine Nutrients	<b>Exam 1,</b> Thur, Feb. 11
6	2/15/21	Jaeger	<i>Careers in Marine Sciences</i>	<b>Virtual Field Trip 1</b>	
7	2/22/21	Olabarrieta	Extreme Storms	<i>No Lab Meeting</i>	
8	3/1/21	Olabarrieta	Extreme Storms	<b>Lab 4:</b> Ocean Storms	
9	3/8/21	Olabarrieta	Extreme Storms	<b>Virtual Field Trip 2</b>	<b>Exam 2,</b> Thur, Mar 11
10	3/15/21	Meadows	<i>Marine Biology: Marine ecosystems</i>	<i>No Lab Meeting</i>	
11	3/22/21	Meadows	<i>Marine Biology: Marine ecosystems</i>	<b>Lab 5:</b> Marine Ecology	
12	3/29/21	Meadows	<i>Marine Biology: Marine ecosystems</i>	<i>No Lab Meeting</i>	
13	4/5/21	Patterson	<i>Marine Ecology and Conservation: Fish population dynamics and life history theory</i>	<b>Lab 6:</b> Fundamentals of Otolith Science	
14	4/12/21	Patterson	<i>Marine Ecology and Conservation: Fisheries and ecosystem-based management</i>	<b>Virtual Field Trip 3</b>	
15	4/19/21	Patterson	<i>Marine Ecology and Conservation: Invasive species</i>	<i>No Lab Meeting</i>	<b>Exam 3,</b> Tues. April 20

**Lab Assignment Late Policy:** All laboratory exercises must be turned in when specified. No late work will be accepted without an approved excuse.

**Course Technology:** Students are required to ensure access to a computer with an Internet connection. Students are expected to have basic knowledge on the use of a computer. In addition, students are required to have working speakers and microphone to complete some assignments.

### **UF Policies**

UF Counseling Services Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:

- o UF Counseling & Wellness Center, 3190 Radio Rd, 392-1575, psychological and psychiatric services.
- o Career Resource Center, Reitz Union, 392-1601, career and job search services.

Many students experience test anxiety and other stress related problems. “A Self Help Guide for Students” is available through the Counseling Center (301 Peabody Hall, 3921575) and at their web site: <http://www.counsel.ufl.edu/>.

### **Honesty Policy**

All students registered at the University of Florida have agreed to comply with the following statement: “I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.”

In addition, on all work submitted for credit the following pledge is either required or implied: “On my honor I have neither given nor received unauthorized aid in doing this assignment.”

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 (3926999). For additional information on Academic Honesty, please refer to the University of Florida Academic Honesty Guidelines at: <http://www.dso.ufl.edu/judicial/procedures/academicguide.html>

**Accommodation for Students with Disabilities** Students who will require a classroom accommodation for a disability must contact the Dean of Students Office of Disability Resources, in Peabody 202 (phone: 352-392-1261). Please see the University of Florida Disability Resources website for more information at: <http://www.dso.ufl.edu/drp/services/>.

It is the policy of the University of Florida that the student, not the instructor, is responsible for arranging accommodations when needed. Once notification is complete, the Dean of Students Office of Disability Resources will work with the instructor to accommodate the student.

**Software Use** All faculty, staff and student of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate.

## Getting Help

### Technical Help

In the event that you have technical difficulties with your course, please contact the UF Computing Help Desk either by filling out an online request form or calling (352) 392-4357 - select option 1. The Help Desk is located on the ground floor of the Hub on the UF campus. If your technical difficulties will cause you to miss a due date, you **MUST** report the problem to the Help Desk and then email your instructor. Include the ticket number that you are given from the Help Desk in an e-mail to the instructor to explain the late assignment/quiz/test.

- Learning-support@ufl.edu
- (352) 392-HELP - select option 2
- <https://lss.at.ufl.edu/help.shtml>

Any requests for make-ups due to technical issues **MUST** be accompanied by the ticket number received from LSS when the problem was reported to them. The ticket number will document the time and date of the problem. You **MUST** email your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

### Other resources

Please check <http://www.distance.ufl.edu/getting-help> for additional support:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support.