Fundamentals of Marine Sciences GLY3083C, Sections 04HB and 04H4, Spring 2019

(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 introduce the students to 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 day-long field trips to coastal sites.

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 Monday periods 3-4 (9:35 am-11:30 am) Section 04HB Wednesday periods 5-6 (11:45 am – 1:40 pm)

Course Meeting Locations

Lecture: Williamson Hall (WM) 100 Lab: Williamson Hall (WM) 141

Field Trip Dates

Saturday, March 14 Saturday, April 4

Exam dates

Thursday, February 6 Thursday, March 26 Tuesday, April 21

Course coordinator (contact regarding any logistical questions)

John Jaeger imjaeger@ufl.edu Williamson 225 Monday 2-3 pm

Instructor Contact Information

Course Instructors	<u>Email</u>	Office location	Office Hours
Peter Adams	adamsp@ufl.edu	Williamson 283	By appointment
Shirley Baker	sbaker25@ufl.edu	7922 NW 71st St, Gainesville	By appointment
Bryndan Durham	b.durham@ufl.edu	Cancer & Genetics Res.Comp.404	By appointment
Ellen Martin	eemartin@ufl.edu	Williamson 362	By appointment
William Patterson	will.patterson@ufl.edu	136 Newins-Ziegler Hall	By appointment
Gustav Paulay	paulay@flmnh.ufl.edu	MUS 228	By appointment
Mike Perfit	mperfit@ufl.edu	Williamson 365	By appointment

<u>Course TA</u> (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

Attendance and participation in all lectures, labs, and field trips is required. Notify the instructor ASAP if you have a known schedule conflict. If you miss a lab or field trip due to illness, contact the instructor as soon as you are able to so to make arrangements for make-up work.

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:

 $\underline{https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx}$

Course Content

Week	Lecture Topic	Laboratory Exercise			
1 (Jan-6) Jaeger	Marine Geology: Course overview, The ocean floor	No Lab Meeting			
2 (Jan-13) Perfit	Marine Geology: Marine Tectonics	No Lab Meeting			
3 (Jan-20) Jaeger/Adams	Marine sediments; Physical Oceanography- Waves, tides, currents	Lab 1: Geo MapApp, bring laptops			
4 (Jan-27)- Adams	Physical Oceanography-Waves, tides, currents	Lab 2: Coastal marine sediment, <i>bring laptops</i>			
5 (Feb-3)- Adams	Physical Oceanography-Waves, tides, currents	Lab 3: Science Communication			
EXAM I (February 6 th , in class)					
6 (Feb-10) Jaeger	Physical Oceanography: Global Sea-level Change	No Lab Meeting			
7 (Feb-17) Jaeger	Chemical Oceanography: seawater composition & the carbon cycle	Lab 4: Florida sea level lab; bring laptops			
8 (Feb-24) Jaeger	Chemical Oceanography: Nutrient cycling	No Lab Meeting			
SPRING BREAK					
9 (Mar-9) Paulay	Marine Biology: Marine ecosystems	No Lab Meeting			
10 (Mar-16) Paulay/Baker	Marine Biology: Marine ecosystems	No Lab Meeting			
11 (Mar-23) Durham	Marine Biology: Marine ecosystems	No Lab Meeting			
EXAM II (March 26th, in class)					
12 (Mar-30) Patterson	Marine Ecology and Conservation: Life Cycles & Life History Theory	Lab 5: Fundamentals of Otolith Science			

Week	Lecture Topic	Laboratory Exercise
13 (Apr-6) Patterson	Marine Ecology and Conservation: Ecosystem Services & Management	No Lab Meeting
14 (Apr-13) Martin	Paleoceanography	No Lab Meeting
15 (Apr-20)	EXAM III (April 21 in class)	No Lab Meeting

Grading:

3 Exams......15, 10, 10% (highest exam counts for 15%) = 35%

4 Laboratory Exercises (#2-5)4,7,7,7 % = 25%

Term paper30%

Participation (including 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	В	3.0
80.0 - 82.9	B-	2.67
77.0 – 79.9	C+	2.33
73.0 – 76.9	С	2.0
70.0 - 72.9	C-	1.67
67.0 – 69.9	D+	1.33
63.0 -66.9	D	1.0
60.0 - 62.9	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

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

Conduct in Class

- Please be courteous and do not talk during lecture. This can be distracting to other students and the instructor.
- Only approved electronic devices may be used in class. Approved electronic devices are laptop computers and tablets (when used to take notes or otherwise participate in classroom activities) and voice recording devices.
- Cell Phones: Students may have their cell phones out in class if they feel it is important for their safety; however, please do not read, use, or play with your cell phone during class.

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, 392-1575) 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 (392-6999). 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.