

## **Undergraduate Assistant (UGA) Positions Available for the fall 2013 Semester**

The **Department of Marine Science** is looking for bright, motivated students who are interested in sharing what they've learned through their classes and related field activities in marine science. Students with research, mentoring, tutoring, or FRI experience are strongly encouraged to apply.

Minimum qualifications include:

- At least a 3.0 UT GPA
- Upper division standing
- MNS 320 and 120L, BIO 311C/BIO 311D, and six hours of MNS courses with grades of B or greater

### **Brief Program Description**

The Department of Marine Science is looking to employ three undergraduate students to assist with the responsibilities of MNS 307 *Introduction to Oceanography*. This course consists of one lecture and 15 lab sections and is taught to approximately 600 freshmen each year.

### **Title of Peer Role/Description of Job Duties**

Students are employed with the department as **Undergraduate Assistants (UGAs)**. The UGA will supervise and be responsible for two lab sections per week, provide direct support to the lecturer and work in a team with other UGAs and graduate TAs, assist students during lab, and grade the weekly lab and homework assignments. The specific requirements of UGA position include: working through course assignments prior to labs, attending lab meetings, acting as a learning coach to students with assignments during lab and class times, grading labs and homework, attending two hours of class per week, presenting lab material for two lab sections per week, and leading reviews for exams.

### **Compensation**

UGAs are employed at an hourly rate of \$10/hr. and expected to work 15 hrs./wk.

### **How to Apply**

The on-line application with more information is available at:

<http://www.utmsi.utexas.edu/academics/undergraduate-program.html>.

Review of applications will begin Monday, August 26, 2013, until all positions are filled.

### **Supervisor/Contact**

UGAs are supervised by MNS 307/308 coordinator, Heather Herrick. Please contact Heather at [heather.herrick@austin.utexas.edu](mailto:heather.herrick@austin.utexas.edu) for more information.

## Application for fall 2013 Undergraduate Assistant

<http://www.utmsi.utexas.edu/>

Return application to: [jamey.pelfrey@utexas.edu](mailto:jamey.pelfrey@utexas.edu)

*Minimum Qualifications:*

- At least a 3.0 UT GPA
- Upper division status
- MNS 320 and 120L, BIO 311C/BIO 311D, and six hours of MNS courses with a grade of B or greater

**Review of applications will begin 26 August and continue until all positions are filled.**

Last Name	First Name	EID	DOB

Email Address	Phone Number

**Year in School (*as of summer 2013*):**

- Second year at UT  
  Third year at UT  
  Fourth year at UT  
  Fifth year at UT  
 Other (please specify):

Please indicate your status:  Freshman    Sophomore    Junior    Senior

**Major(s):**

First Major	Second Major (if applicable)

**What is your current GPA?**

**What is your expected date of graduation?**

**Courses you have taken:**

BIO 311C	If yes, what was your grade?
BIO 311D	If yes, what was your grade?
MNS 320	If yes, what was your grade?
MNS 120L	If yes, what was your grade?

**Please list any other MNS courses you have taken:**

	What was your grade?

**MNS 307 Lab Times**  
**(Lecture Time in Fall MW 9-10 JES A121A)**

T		W		TH		F	
9:00 AM	11:00 AM			8:00 AM	10:00 AM	10:00 AM	12:00 PM
11:00 AM	1:00 PM	10:00 AM	12:00 PM	10:00 AM	12:00 PM	12:00 PM	2:00 PM
1:00 PM	3:00 PM	12:00 PM	2:00 PM	12:00 PM	2:00 PM		
3:00 PM	5:00 PM	4:00 PM	6:00 PM	2:00 PM	4:00 PM		
5:00 PM	7:00 PM			4:00 PM	6:00 PM		

	T	W	TH	F
8:00-8:30				
8:30-9:00			LAB	
9:00-9:30	LAB	LECTURE		
9:30-10:00				
10:00-10:30				
10:30-11:00		LAB	LAB	LAB
11:00-11:30	LAB			
11:30-12:00				
12:00-12:30				
12:30-1:00		LAB	LAB	LAB
1:00-1:30	LAB			
1:30-2:00				
2:00-2:30			LAB	
2:30-3:00				
3:00-3:30	LAB			
3:30-4:00				
4:00-4:30				
4:30-5:00		LAB	LAB	
5:00-5:30	LAB			
5:30-6:00				
6:00-6:30				
6:30-7:00				

Marine Science 307  
**Introduction to Oceanography**  
**Fall 2013**

Unique Numbers 55570-55640

**Instructor: Dr. Dong-Ha Min**

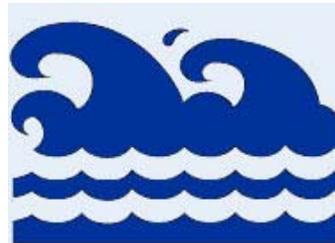
Department of Marine Science

Office: BIO 114AC, Austin

Phone: (512) 475-9290

Email: [dongha@austin.utexas.edu](mailto:dongha@austin.utexas.edu)

**Office hours: Mon 10:00 a.m.–12:00 p.m., BIO 114AC**



**LECTURE: Monday & Wednesday 9:00 – 10:00 a.m., JES A121A**

Your **LAB SECTION** meets weekly in **WEL 5.110**. You must attend the correct laboratory section (the one for which you are registered) in order to get credit.

**Teaching Assistants (Office: BIO 405):**

XXX            yyy@utexas.edu

XXX            yyy@utexas.edu

XXX            yyy@utexas.edu

XXX            yyy@utexas.edu

**Laboratory Coordinator:** Heather A. Herrick    heather.herrick@austin.utexas.edu  
Office: BIO 12G  
Phone: 512-232-5696

**Official course description:** Introduction to the sciences of oceanography: geological, physical, and biological. Two lecture hours and two laboratory hours a week for one semester.

**Prerequisites:** none

**Other course statements:** May not be counted toward the Bachelor of Arts degree with a major in geological sciences, the Bachelor of Science in Geological Sciences (Option I), the Bachelor of Science in Geological Sciences (Option II), or the Bachelor of Science in Geological Sciences (Option III).

### **Course Goal**

The primary goal of this course is to foster an appreciation for the ocean, its precious resources and complex ecosystem, and fundamental mechanisms governing different processes. Additionally, by enhancing their knowledge of ocean, students will develop critical thinking skills about the important marine and environmental issues facing our society including climate change, natural disasters, overfishing, and water pollution.

### Course Objective

This course is primarily designed for non-science majors as an introductory and multi-disciplinary exploration of the marine environment. We will explore the physical, chemical, geological, and biological processes that influence ocean characteristics and discuss how the ocean directly influences human society including its connections with climate, ecology, and coastal economics. Throughout this course, students will be asked to (i) apply their newly learned knowledge to the relevant hands-on lab activities, (ii) demonstrate their understanding through various quiz and test activities, and (iii) write their newly gained perspectives on blogs. By completing this course, students will be able to (i) identify and demonstrate fundamental principles and key concepts of marine science, (ii) express clear view on global to regional scale marine and environmental issues based on scientific facts, and (iii) demonstrate new insights gained for the complex yet sophisticated and interconnected marine systems and organisms. These may help them to make informed decisions in their daily life experiences beyond this class.

### Textbook

*Investigating Oceanography*, by Sverdrup and Kudela (ISBN 9780078022913 • 0078022916 • 1259208796). Here are the textbook web site, where you can find study guides, additional links, etc.

[http://ewhighered.mcgraw-hill.com/sites/0078022916/information\\_center\\_view0/](http://ewhighered.mcgraw-hill.com/sites/0078022916/information_center_view0/)

Also, you *must purchase* **a course packet for the laboratory** at the UT Copy Center in Welch Hall, **WEL 2.228**.

### Course web site

The **Blackboard** site for this class (see <https://courses.utexas.edu>) will be used extensively. Copies of lecture and laboratory notes will be posted under the Course Documents folder for you to print and take notes on. We will also post the syllabus, announcements, assignments, blogs, and discussion forum on the site. The grades of pre-lecture assignments, clicker quizzes, blogs, labs, midterm and final exam will be posted on the site.

### Pre-lecture assignment

Every week, **beginning September 7**, you will be *required* to complete a **pre-lecture quiz** on Blackboard. Each quiz will consist of about five multiple-choice questions about the chapter(s) you will study that week. One or two of the questions will be asked from one of the previous *Science and the Sea* radio/podcast episodes (<http://scienceandthesea.org>). Each week's quiz will be available on Blackboard (look under "Assignments") beginning at noon on Saturday. ***You must complete each week's quiz by 9:00 pm on Monday***. The assignment is open book and you can take as long as you need to complete it (except that it needs to be done by the deadline). Make sure you click "**submit**" at the bottom of the page when you are done. Without this step your answers are not processed as "Submitted" but stay as "In Progress." Please do not forget to complete the quizzes because they offer easy points!!

Support for using Blackboard is provided by the ITS Help Desk (FAC200-B) at 475-9400, Monday through Friday 8 a.m. to 6 p.m.

### **In-class i>clicker quiz**

We will be using an in-class response system called “i>clicker”. You are required to purchase an **i>clicker 2 remote** for in-class quiz participation. i>clicker is a response system that allows you to respond to questions we pose during class, and you will be graded on your in-class participation. In order to receive this credit, you will need to register your i>clicker remote at the Blackboard or at the i>clicker website within the first two weeks of class. You must have come to class at least once and voted on at least one question in order to complete this registration properly. Once you have voted on a question in the class, go to the Blackboard course site. Complete the fields with your name, student ID, and remote ID. Your student ID should be **your UTEID**. The remote ID is found on the bottom of the back of your i>clicker remote. i>clicker will be used every day in class, and you are responsible for bringing your remote daily. Some students forget to register even after they have purchased and even used the remote in the class, causing extra work and confusion to the instructor. Those who register the i>clickers past the given deadline (i.e. within 2 weeks) will get their credits from the day they have registered and not for the previous sessions. For those who have used i>clickers in the past, all students are required to register at the beginning of each school year. Registrations are kept for the fall and spring semesters and the database is cleared in the late summer just before the start of the school year. Any student that registered in the spring semester or in the early summer is required to register again.

### **“i>clicker”**

You are required to purchase a clicker at the Co-Op (Gen2 remote ~\$48) and register it. There is no separate registration fee. Here’s how:

1. Log on to the Blackboard course site.
2. Go to “Blackboard Tools” menu.
3. Click “Register your i>clicker remote ID”
4. Enter your “i>clicker remote ID”

Your **participation in these in-class quizzes will be graded** as follows:

- A. If you bring your clicker, and answer more than 50% of the questions, you will receive full credit (100 points). If you do not answer more than 50% of the questions, you will receive half credit (50 points).
  - B. If you bring your clicker but it does not work, or if you forget your clicker entirely, you can receive half credit by signing your full name and providing your UTEID on a signup sheet (You may receive zero credit for the particular session if it happens more than 3 times during the semester).
- \* If you do not purchase and register a clicker, you will receive no credit.
  - \* We will start to use the clickers from the first class meeting.

**Problems with your clicker?** Call the ITS Help Desk (FAC 200-B, 475-9400, [www.utexas.edu/its/helpdesk/forms/emailform.php](http://www.utexas.edu/its/helpdesk/forms/emailform.php)), or i>Clicker's tech support line (1-866-209-5698, [support@iclicker.com](mailto:support@iclicker.com)). What if you bought a used clicker but the serial number on the back is missing? What if your clicker seems to have a problem? There is a spare receiver at the ITS Help Desk on which you can test your remote. The CO-OP store also has one.

### Course blogs

We will make an **Introduction to Oceanography course blogs** in Blackboard. **Each student** is expected to post **at least 1 blog entry by 11:50pm of 11/24 (Sun) during the semester.** Late submission will get zero, although allowed to be posted anyway. Students write a **short paragraph (more than 250 words or 20 lines) about their enlightenment/perspectives of new knowledge learned** from the class, textbook, lab, or other sources (e.g. Science and the Sea podcasts, New York Times Science articles, etc.). **The posting is with your own perspectives and brief description of your base material, but is NOT a summary of news itself.** The typical blog entry would consist of a short paragraph or two of text, and any relevant URL link or graphic image with proper citation or source information. See the example blog entry posted in the Blackboard blog site. Make sure you write a title of your entry in the title box, and enter the contents in the text editor. Please "attach image" **INSIDE** the text editor, instead of outside the editor so your attached graphic can be readily viewed on the posting. Write your text within the text editor instead of attaching a document file. **Always write your name and section# at the bottom of the content,** so TAs can keep track of your postings. **Do not write your EID in your posting.** You can change the size of the image after you attach it, but consider keeping its size less than 400x600 (or 600x400). The posting will be made with your name, and anonymous posting or comment is not allowed. **You are welcome to add comments to other students' posts, but please be courteous and positive in your feedback.** Any inappropriate or offensive comments will be removed. You may post more than one entry, but **only one entry will be counted for credit.** Please do not wait until the deadline as the Blackboard may be overloaded and becomes very slow in processing as so many people attempt to upload materials at the same time.

### Exams

There will be **two midterm exams and one final exam** for this course. Mix of true/false and multiple choice questions will be used in the exams, and the number of questions for each exam will be announced to the class at a later time. They are typically 40 and 80 questions for the midterm and final exams, respectively. Students will have opportunities to pull out their own test questions and submit to the instructor for consideration at each exam. The suggested questions will be reviewed by the instructor and TAs and the selected ones may be used in the exams (up to 10 questions).

### Course Requirements and Grading

Your grade for the course will be determined as follows:

15% - Midterm exam 1 (1-hour exam on Chs. 0-4)

15% - Midterm exam 2 (1-hour exam on Chs. 5-9)

20% - Final exam (2-hour exam on Chs. 10-16)

- 08% - Blackboard Pre-lecture assignments (see description above)
- 07% - In-class clicker quizzes (see description above)
- 05% - Course blog (see description above)
- 30% - Laboratory Average

The lab grade in turn is determined as follows:

- 80% - Lab Assignments (quizzes and weekly lab exercises)
- 20% - Laboratory Practical

More information on lab grading is given in the Lab Manual and will be explained in detail by your TA on the first day your lab section meets.

Final letter grades for the course will be assigned as follows, after rounding numerical grades to half-numbers.

- A : 91 and above
- A-: 87 – 90.5
- B+: 83 – 86.5
- B : 79 – 82.5
- B-: 75 – 78.5
- C+: 70 – 74.5
- C : 65 – 69.5
- C-: 60 – 64.5
- D+: 51 – 59.5
- D : 42 – 50.5
- D-: 33 – 41.5
- F : less than 33

Exceptions to these grades will not be made after the final exam has been graded, unless a grading error, by the professor or teaching assistant, is verified. Extra credit to improve grades will not be allowed.

### **Missed work**

All missed quizzes (pre-lecture assignments and in-class clicker quizzes) will receive a grade of zero. In the case of an anticipated, valid absence from a lab or exam, for example a religious holiday or university-sponsored event in which your participation is required, you **must** inform your TA and arrange for make-up work at least two weeks in advance. An unanticipated absence from the midterm or final exam for documented, valid (e.g., medical, family emergency) reasons can be made up if the instructors are informed within 24 hours.

**Do not change lab sections.** Meet with regularly assigned lab sections unless prior permission is received to make up or attend another section. If you are unable to attend your scheduled lab section for any reason, you will **only** be allowed to make-up that lab if you have **official documentation** of a legitimate reason (e.g. personal or immediate family emergency, school's official event participation, or religious holy day). This documentation must be approved by Ms. Heather Herrick in BIO 12G before you will be

allowed to attend a different lab section or make up a lab. Please see her at least **2 weeks in advance** of the conflict when possible.

### Lecture schedule, topics, and reading assignments

<i>Date</i>	<i>Topic</i>	<i>Reading (textbook)</i>
Aug. 28	Introduction to the course	
Sep. 02	<b>Labor Day holiday</b>	
Sep. 04	Prologue: The History of Oceanography	Prologue
Sep. 09	The water Planet	Ch. 1
Sep. 11	Earth Structure & Plate Tectonics	Ch. 2
Sep. 16	Earth Structure & Plate Tectonics	Ch. 2
Sep. 18	The Sea Floor and Its Sediments	Ch. 3
Sep. 23	The Sea Floor and Its Sediments	Ch. 3
Sep. 25	The Physical Properties of Water	Ch. 4
Sep. 30	<b>Midterm exam 1</b>	Ch. 5
Oct. 02	The Chemistry of Seawater	
Oct. 07	The Atmosphere and the Oceans	Ch. 6
Oct. 09	The Atmosphere and the Oceans	Ch. 6
Oct. 14	Ocean Structure and Circulation	Ch. 7
Oct. 16	Ocean Structure and Circulation	Ch. 7
Oct. 21	The Waves	Ch. 8
Oct. 23	The Tides	Ch. 9
<b>Oct. 28</b>	<b>Midterm exam 2</b>	
Oct. 30	Coasts, Beaches, and Estuaries	Ch. 10
Nov. 04	Coasts, Beaches, and Estuaries	Ch. 10
Nov. 06	The living ocean	Ch. 11
Nov. 11	The Plankton, Productivity, and Food Webs	Ch. 12
Nov. 13	The Plankton, Productivity, and Food Webs	Ch. 12
Nov. 18	The Nekton: Swimmers of the Sea	Ch. 13
Nov. 20	The Nekton: Swimmers of the Sea	Ch. 13
Nov. 25	The Benthos: Living on the Sea Floor	Ch. 14
Nov. 27	The Benthos: Living on the Sea Floor	Ch. 14
<b>Nov. 28-30</b>	<b>Thanksgiving holidays</b>	
Dec. 02	Environmental Issues	Ch. 15
Dec. 04	The Oceans and Climate Disruption	Ch. 16
<b>Dec 11-14, 16-17</b>	<b>Final Exam 9am-12pm</b>	

Note: Schedule subject to change

## Laboratory schedule

Week	Laboratory
August 28 - 30	<b>NO LABS</b>
September 02 - 06	LAB 1: Navigation
September 09 - 13	LAB 2: Bathymetry
September 16 - 20	LAB 3: Continental Drift and Plate Tectonics
September 23 - 27	LAB 4: Beach Profiles and Sediment Characteristics
Sep. 30 – Oct. 04	LAB 5: Physical and Chemical Properties of Sea Water
October 07 – 11	LAB 6: Ocean Circulation
October 14 – 18	LAB 7: Waves and Tides
October 21 – 25	LAB 8: Marine Biological Processes and Trophic Relationships
Oct. 28 – Nov. 01	LAB 9: Plankton and Introduction to Taxonomy
November 04 - 08	LAB 10: Fishes and Adaptations to the Marine Environment
November 11 - 15	LAB 11: Benthos - Bottom Dwelling Invertebrates
November 18 - 22	LAB 12: Fisheries and the Fish Banks Game
November 25 - 29	<b>NO LABS- Thanksgiving holidays</b>
December 02- 06	<b>LAB PRACTICAL</b>

Additional information regarding important University dates/deadlines and final exams is posted in the syllabus section on Blackboard.

### The University of Texas Honor Code

The core values of The University of Texas at Austin are learning, discovery, freedom, leadership, individual opportunity, and responsibility. Each member of the University is expected to uphold these values through integrity, honesty, trust, fairness, and respect toward peers and community (University Honor Code:

<http://registrar.utexas.edu/catalogs/gi09-10/ch01/index.html>).

### Academic Integrity

We encourage you to discuss course material in and outside of class; this includes consulting with your neighbors during in-class clicker questions or labs. However any work turned in under your name must represent your own efforts; ***cheating and plagiarism in any form will not be tolerated***. Students are expected to be familiar with definitions of scholastic dishonesty, standards of conduct, and the discipline processes of the University. Please see the Student Judicial Services web site (<http://deanofstudents.utexas.edu/sjs/>) for more information, and don't hesitate to ask us if you have any questions about your own or others' conduct.

### University E-mail Notification Policy

(excerpted from <http://www.utexas.edu/its/policies/emailnotify.html>)

It is the responsibility of every student to keep the University informed of changes in his or her official e-mail address. Consequently, e-mail returned to the University with "User Unknown" is not an acceptable excuse for missed communication. Students are expected to check e-mail on a frequent and regular basis in order to stay current with University-related communications, recognizing that certain communications may be time-critical. It is recommended that e-mail be checked daily, but at a minimum, twice per week. Official University communications sent by e-

mail are subject to the same public information, privacy and records retention requirements and policies as other official University communications.

### **Religious Holy Days**

By UT Austin policy, you must notify us of your pending absence **at least fourteen days prior to the date of observance of a religious holy day**. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, you will be given an opportunity to complete the missed work within a reasonable time after the absence.

### **Accommodations for Students with Disabilities**

The University of Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the Division of Diversity and Community Engagement, Services for Students with Disabilities (Office of the Dean of Students) at 471-6259, or 471-6441 TTY (<http://www.utexas.edu/diversity/ddce/ssd/>). In other words, students with disabilities who need special accommodations need to get a letter documenting their disability from the Services for Students with Disabilities (SSD) Office of the Office of the Dean of Students. This letter must be provided to the instructors as soon as possible. We will make every effort to accommodate your needs.

### **Prohibition of Sexual Harassment of Students**

It is the policy of the University of Texas at Austin to maintain an educational environment free from sexual harassment and intimidation. Sexual harassment is expressly prohibited and offenders are subject to disciplinary action (<http://www.utexas.edu/student/registrar/catalogs/gen-info/appD.html>). The Office of the Dean of Students has been given the primary responsibility for responding to questions about and receiving complaints of sexual harassment of students.

### **Emergency Evacuation Policy**

Occupants of buildings on The University of Texas at Austin campus are required to evacuate buildings when a fire alarm is activated. Alarm activation or announcement requires exiting and assembling outside. Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building. **Students requiring assistance in evacuation shall inform their instructor in writing during the first week of class**. In the event of an evacuation, follow the instruction of faculty or class instructors. Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.