Intro to Oceanography Field Experience (CRN 12816)
Professor Chamberlin
Fall 2015 Course Guidelines

ALOHA!
Like In and Out, these course guidelines are what this course is all about. Make sure you read these guidelines very carefully.

MY TEACHING PHILOSOPHY: 1) Put students first; 2) Always be prepared; 3) Never give up, never surrender. I do my best to follow these principles every day.

WHAT I EXPECT FROM YOU: 1) A desire to learn because you understand the importance of education to your family, your future, and your happiness; 2) The motivation to learn because knowing how to learn secures your place in the world as a skilled and thoughtful and independent human being (not ruled by the opinions of others); 3) Respect towards me and your classmates because everyone is doing the best they can given their level of awareness, because not everyone has had the same opportunities in education and life, and because a world in which people respect each other is a kinder, safer, and more beautiful place to live and love. I hope you will do your best to follow these principles, learn from them, and make them a part of your life.

COURSE SYNOPSIS: This 1-unit, 8-week, accelerated course engages students in field studies of geological, physical, chemical, and biological processes in a variety of marine habitats, as well as instruction in oceanographic research techniques. Includes field trips.

COURSE DIFFICULTY: Many of my students find the material in this course very difficult. But, by taking this course and successfully passing it, my students are prepared for anything they take at a four-year college and beyond. The skills and ways of understanding learned in this course can be applied to your career and your personal life. Adopting successful habits of mind and learning how to learn anything are key outcomes of my approach to teaching. And challenging students to be all that they can be is my sworn duty. No pain, no gain.

BASIC SKILLS: If you are enrolled in basic skills reading, math, or English, please contact me before proceeding with this course. Only about 15% of basic skills students pass this class because they are not prepared to study at a college level. If you're willing to work extra hard, then you should be okay. But an online class is brutal for any student, much less a student who isn't all that into college.

TECHNOLOGY: I expect that everyone enrolled in this course knows how to use a computer and the Internet. I also expect that you know how to use a word-processing program, and how to save or export a document as a .doc, .docx, .rtf, or .pdf. Even Pages for the Macs can export Word files. You'll also need to come up to speed with Blackboard and Turnitin, if you aren't already familiar with them. If you don't know how, please be willing to learn. You'll find lots of help on the internet, especially YouTube. Heck, you can even email a classmate to ask for help and make a new friend!

ACADEMIC HONESTY/COLLEGE POLICIES: All college, district, state and federal policies, guidelines and regulations apply to this course. The Fullerton College Catalog and the Class Schedule contain a number of important policies and guidelines. Check them out. You may purchase copies of these publications at the campus bookstore, or you may read them online at the Fullerton College website, http://www.fullcoll.edu/catalog. Students are urged to review the FC Catalog policy on Academic Honesty. If you are caught cheating, you will receive a zero for that assignment or exam. Repeated offenses have stronger penalties.
**TURNITIN:** We use turnitin.com because it helps you to become a better writer and a better thinker. Revise your work if you see a high similarity percentage. Turnitin is meant to help you, not punish you. **NO COPYING OR QUOTING:** I do not allow students to copy or quote other works in this course. Use your own words always. This policy applies to everything you submit, including participation assignments, homework, exams, extra credit, and anything else you submit for credit. Copying or paraphrasing a single sentence from another student, Wikipedia, any other source, and even yourself will result in a zero for the entire assignment or exam. Using images, figures, or other forms of multimedia that are not your own is also prohibited.

**ATTENDANCE REQUIREMENTS:** All students must attend the first class, and be no more than 30 minutes late, or they will be dropped as a no-show. If you plan to miss the first day, please contact me before the first class via e-mail sent to exploreworldocean@gmail.com. I take attendance every class. Students who miss three or more classes, consecutively or non-consecutively, will be dropped for non-participation.

**DROP POLICY:** It is the responsibility of the student to drop the course regardless of attendance requirements. Do not rely on your professor to drop you for any reason. Failure to drop a course may result in an failing grade (F) for the semester.

**LATE WORK:** I don’t accept late work but I do provide limited opportunities to to earn points with alternative assignments. Having worked in the business world for several years, I can assure you that showing up on time and submitting work on time is expected. Tardy-ass people and slackers get fired. Timeliness is next to godliness.

**STUDY REQUIREMENTS:** Students may expect to spend 3-6 HOURS PER WEEK STUDYING for this course. Over the 8 weeks of the semester, you can expect to devote 96 or more hours to this course, including class time. Just like at a 4-year college, I assume that you are spending the appropriate amount of time towards your studies. Students are urged to review the suggestions provided in the FC Course Catalog concerning workload and class load. Consider reducing your work hours, spending less time with friends and family, smoking less pot, and other time-management strategies to find time to study. You can find time if you use time wisely.

**AMERICANS WITH DISABILITIES ACT (ADA) STATEMENT:** Fullerton College is committed to providing educational accommodations for students with disabilities upon the timely request by the student to the instructor. Verification of the disability must also be provided. The Disability Support Services office functions as a resource for students and faculty in the determination and provision of educational accommodations.

**FULLERTON COLLEGE CATALOG AND CLASS SCHEDULE:** The Fullerton College Catalog and the Class Schedule contain a number of important policies and some great tips on studying. Please browse or read these publications for the parts that are important to you. You may purchase copies of these publications at the campus bookstore, or you may read them online at the Fullerton College website. Current Schedule: [http://www.fullcoll.edu/class-schedule](http://www.fullcoll.edu/class-schedule). College Catalog: [http://www.fullcoll.edu/catalog](http://www.fullcoll.edu/catalog)

**STANDARDS OF STUDENT CONDUCT AND DISCIPLINE POLICY:** As cited in BP5500, “A student who violates the standards of student conduct shall be subject to disciplinary action including, but not limited to, the removal, suspension or expulsion of the student.” The standards of student conduct and disciplinary action for violation of Board Policy 5500 were approved by the NOCCCD Board on January 28, 2003, and were drawn in compliance with Sections 66300, 76030, 76033, 76034, 76036 of the State
Education Code. Students are expected to respect and obey civil and criminal law and shall be subject to the legal penalties for violation of the city, county, state, and national law(s). Student conduct must conform to Board Policy and college regulations and procedures.

As noted above, students have an obligation to familiarize themselves with the College’s policies, rules and regulations and to conduct themselves in a reasonable, respectful manner, which is conducive toward attaining their educational goal. Upon registration, each student should obtain a copy of the College Policies and Regulations: Standards of Student Conduct and Discipline Policy. Contained therein are the policies approved by the Board of Trustees governing student behavior and the applicable penalties for violations of these policies. Copies are available in the Student Affairs Office, the Office of Equity and Diversity, all division offices, and the Student Services office.

EMERGENCY RESPONSE STATEMENT: An earthquake or extreme weather event may happen at any moment. Take note of the safety features in and around where you complete your work. Note the posted evacuation routes. During strong earthquakes, it is recommended to duck beneath a desk, cover your head with your hands, and hold on to your ass until the quaking stops. Running out of a building during an earthquake can be deadly. Didn’t you hear "The Rock" in San Andreas this summer? If you know what to do during an earthquake, email me with the statement, "During an earthquake, duck, cover and hold," and I’ll give you one point extra credit.

UNDECIDED ON A MAJOR? Why not pursue a career in Oceanography, Meteorology, Geology, or Earth Science? You may be amazed at the opportunities for students in this field. If you are interested in business, technology, computers, working with machinery, public relations, marketing, law, physical fitness, medicine, health and just about any other subject, we need you! All that’s required is a passion for the ocean. Just ask me.

COURSE APPROACH: Our course takes an inquiry-based approach to learning. The U.S. National Science Education Standards define inquiry this way:

Inquiry is a multifaceted activity that involves making observations; posing questions; examining books and other sources of information to see what is already known; planning investigations; reviewing what is already known in light of experimental evidence; using tools to gather, analyze, and interpret data; proposing answers, explanations, and predictions; and communicating the results. Inquiry requires identification of assumptions, use of critical and logical thinking, and consideration of alternative explanations.

What this means for you is that your discovery and understanding of oceanographic knowledge will stem from your innate curiosity about the ocean, a guided questioning of how the ocean works and an application of science tools and methods to derive scientific explanations for the processes you observe. Alas, that frees you to discover your inner scientist, to challenge your mental models and assumptions, to develop your individual approach to investigating the natural world and to hone your skills for communicating those results to the world.

SAFETY: Most of the activities in this course are conducted in the field under conditions that may, at times, be hazardous and potentially dangerous. Please review the handout, Oceanographic Field Investigation Safety Tips and Guidelines, provided by your instructor on the first day of classes.

TRANSPORTATION: Each student is responsible for providing their own transportation to and from field sites. Students are strongly encouraged to carpool. You will be given 45-60 minutes from the class start time to arrive at our field sites. We will complete our work 45-60 minutes prior to the class end time.
Thus, you will be able to arrive at the field site, complete your field work, and return to Fullerton College within the 4 hours and 15 minutes of the class. Though every attempt is made to schedule sites where parking is free, you may encounter places where you will be charged. There will be an $11 charge for our whalewatching trip.

**TEXTBOOK**: There is no required textbook for this course but you will want access to some kind of introductory oceanography textbook, such as *Exploring the World Ocean*, by Chamberlin and Dickey, or a similar textbook. It will be very difficult for you to complete the course without some kind of oceanography text.

**STUDENT LEARNING OUTCOMES**
Upon successful completion of ESC 130LF, Introduction to Oceanography Field Experience, the student will be able:

1. to demonstrate proficiency with field and laboratory methods for sampling, observing, and measuring properties of seawater.
2. to analyze and process data in tables and graphs.
3. to relate scientific information to others in written and spoken forms.

**COURSE WEBSITES**
The following websites serve our course. Try to become familiar with them in the first week of classes, or you may feel lost. Read very carefully the directions to log in to Blackboard and Turnitin. This isn't Instagram of Facebook. It's real life.

**MYGATEWAY**: This is a portal to Blackboard but I don't use it otherwise. At all. For anything.

**BLACKBOARD**: All sections of this course will use Blackboard for announcements, online quizzes, lecture notes, grades, assignments, study guides, and other materials and assessments related to the course. All students are expected to log in at least 2-3 times per week to adequately prepare and study for materials covered in class.

You may gain access to Blackboard through the link on MyGateway or at [http://online.fullcoll.edu](http://online.fullcoll.edu).

PLEASE NOTE that the District performs maintenance on Blackboard every Friday morning from 6-10a. You will not be able to access the website at that time.

Blackboard can be a pain in the ass, but if you know how to get around in it (which, if you READ the instructions and use the help files, you'll be able to figure out), you can minimize your problems. Use of TABLETS with Blackboard is NOT RECOMMENDED. Check out each one of the links below.

Student log in options: [http://online.fullcoll.edu/Bkbd/Resources/stdntlogin.html](http://online.fullcoll.edu/Bkbd/Resources/stdntlogin.html)

Student FAQ's (includes tech info and what to be aware of when taking tests): [http://online.fullcoll.edu/Bkbd/faqs.html](http://online.fullcoll.edu/Bkbd/faqs.html)
MENTORS: One way to show that you are motivated and willing to learn is if you are willing to learn multiplying, and dividing). The pressure equation, \( P = \frac{z}{10} + 1 \) just throws student many of you will struggle with the very basic math in this class. Trust. It's basic (adding, subtracting, multiplying, and dividing). Relax. If you are willing to learn, you will be calculating pressure in your sleep by the second week of classes.

One way to show that you are motivated and willing to learn is to meet with one of the course student mentors. Check Blackboard for details on where they may be found and when they may be found there.

**TURNITIN.COM:** This course also used turnitin.com for submission of lab reports. To access turnitin.com, go to http://turnitin.com. If you do not already have an account, you will need to create one. Go to the Create Account link next to the log in button at the top right of the page. If you already have an account, log in and enroll in your class section, according to the table below. Note that turnitin.com has excellent resources for getting started and for understanding plagiarism. See the Training link at the top of the page, and select Student Training.

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**YOUTUBE:** Lectures and more can be found on my YouTube Channel. Not all of them apply to the coverage in this course. I will try to highlight especially important lectures in the Course Content Menu above. You may find my video lectures at [http://www.youtube.com/scxq28](http://www.youtube.com/scxq28).

**ANYTHING ELSE?** If you are looking for anything else and can't find it, by all means e-mail me!

**SEND E-MAIL TO** EXPLOREWORLDOCEAN@GMAIL.COM
Please send ALL e-mail correspondence to exploreworldocean@gmail.com. Include a SUBJECT, your SECTION, and your FULL NAME. If you don't hear back from me in 48 hours, send your email again.

Please don't send me e-mail through MyGateway. I won't get it until next summer.

Please avoid sending email to my fullcoll address. There are spies at this address.

Please be courteous! I promise to treat you with the manners and respect that you deserve if you promise to treat me the same. I am more than happy to listen to reasonable and rational statements. If I have made an error, I am more than happy to correct it.

Kindness applies to your classmates as well. A colleague with cancer writes at the end of emails..."Be kinder than necessary, for everyone you know is fighting a battle of some kind!"

**STUDY-WITH-PROF-SEAN HOURS IN THE SEA CAVE**
I welcome visits from students during my designated study hours in the Sea Cave on Mondays and Wednesdays, from 10-11am and 1-3 pm.

It's always a good idea to let me know via e-mail that you are coming. And, of course, for the fastest response to questions, e-mail me, exploreworldocean@gmail.com.

**PEER MENTORS HELP YOU SOLVE PROBLEMS AND APPLY YOUR KNOWLEDGE**
This course is supported by a grant from the Student Equity program that provides students with opportunities to get additional instruction outside of class from peers who have taken the course previously or who are familiar with studying for science classes. Mentoring helps students improve their study skills, and provides tools for completing work assigned as part of this class.

Many of you will struggle with the very basic math in this class. Trust. It's basic (adding, subtracting, multiplying, and dividing). The pressure equation, \( P = \frac{z}{10} + 1 \) just throws students into a tizzy. Relax. If you are willing to learn, you will be calculating pressure in your sleep by the second week of classes.
YOUR MIND IS BEAUTIFUL: FILL IT WITH KNOWLEDGE AND WATCH IT GROW
The goal of college is to prepare yourself for a successful life and a career beyond college. In taking this course, you are being trained to master an unfamiliar knowledge set, to apply what you learn in new situations, to think about competing possibilities, and to articulate your rationale for choosing a particular way of thinking. You'll be a better person, have more satisfying relationships, and look smarter, too, all from working hard to succeed in this class.

A number of tools will be provided for you to learn the materials, obtain the knowledge, and develop the understandings to meet these outcomes. Not all of the available tools earn you points but you can bet that if you go beyond the required work, you are going to be more successful in your point-earning assignments. Some of these tools will help form your knowledge and understanding (formative assessments). Other tools will assess your knowledge and understanding (summative assessments).

QUIZZES HELP YOU LEARN!
You will be required to take online quizzes each week of class except the last two weeks. Quizzes will be available for a 10-day period in Blackboard. Quizzes will go online at 0005 on Mondays and offline ten days later at 2355 on Wednesdays. You will be given three attempts to take each quiz. If your computer malfunctions or your connection is lost, you will forfeit that attempt. Some of the questions will change each attempt. So you will need to study prior to taking the quiz. Six quizzes at 25 pts each equals 150 pts total.

WORKSHEETS KEEP YOU ON TASK
During each lab or field study, you will be required to complete a worksheet related to our topic(s) of investigation for that class. Following each class (except the last class), you will type up your observations and results, finalize any drawings and sketches, and graph or tabularize any data. At the start of the next class, you submit your completed work in the format outlined by your instructor. Late worksheets will be penalized at a rate of 10 points per 24 hours or fraction thereof. Points will be deducted for incomplete or inaccurate worksheets. Three worksheets at 50 pts per lab equals 150 pts total.

LAB REPORTS DEMONSTRATE YOUR SCIENTIFIC METHOD SKILLS
Following each field activity, you will write up and submit at the start of the following class a lab report based on the field activity. The format will be presented and discussed class. Three lab reports at 50 points per report equals 150 points total.

A LAB PRACTICUM TESTS WHAT YOU KNOW AND UNDERSTAND
A lab practicum will be administered during the last class to assess your knowledge and understanding of oceanography lab and field investigation design, methods, and reporting and discussion of results. More information on the practicum will be given in class. The practicum is worth 150 points.

FINAL GRADE CRITERA
Your course grade is based on a total of 600 points.

Quizzes: 150 pts
Lab Worksheets: 150 pts
Lab Reports: 150 points
Lab Practicum: 150 points
### Grade Scale

- **A** = 90%
- **B** = 80%
- **C** = 70%
- **D** = 60%
- **F** = <60%

### COURSE SYLLABUS

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Location</th>
<th>Worksheet</th>
<th>Quiz</th>
<th>Lab Report</th>
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<tbody>
<tr>
<td>1</td>
<td>8/27</td>
<td>Orientation; The Scientific Method; Marine Habitats</td>
<td>Fullerton College, Room 416A</td>
<td>Observing and Describing Like a Mad Scientist</td>
<td>The Scientific Method</td>
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<td>2</td>
<td>9/3</td>
<td>Habitats of Southern California</td>
<td>Cabrillo Aquarium</td>
<td>Survey of SoCal Marine Habitats</td>
<td>Marine Habitats</td>
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<td>3</td>
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<td>Longshore Current &amp; Marine Debris</td>
<td>Fullerton College, Room 416A</td>
<td>Campus Debris Survey</td>
<td>Beaches &amp; Beach Processes</td>
<td>Lab Report #1 Due</td>
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<td>4</td>
<td>9/17</td>
<td>Marine Debris and Plankton</td>
<td>Newport Beach, 8th Street Lifeguard Station; M Street Pier</td>
<td>Observing Beaches &amp; Beach Processes</td>
<td>Marine Debris and Plankton</td>
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<td>Fullerton College, Room 416A</td>
<td>Observing Plankton</td>
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<td>Marine Mammals</td>
<td>Fullerton College, Room 416A</td>
<td>Observing Animal Behavior</td>
<td>Marine Mammals</td>
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<td>7</td>
<td>10/8</td>
<td>Marine Mammals of Southern California</td>
<td>Davey’s Locker, 400 Main St, Newport Bch, 92661, 949.673.1434</td>
<td>Observing &amp; Recording Marine Mammal Behavior</td>
<td>Physical and Chemical Properties of the Water Column</td>
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<td>Final Exam</td>
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<td>None</td>
<td>Lab Practicum</td>
<td>Lab Report #3 Due</td>
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