GENERAL OCEANOGRAPHY
Geology 105 – Spring 2014 - Spartans Online
Sections 01
San José State University
(Ver. 1 – 2/6/14)

Instructor: Don Reed (yes, I am a doctor, Ph.D., and full professor, but just call me "Don")

Office Location: 305 Duncan Hall (However, I am only at SJSU on Mondays)

Course Website: http://www.sjsu.edu/at/ec/canvas/index.html

Information on using Canvas for students at: http://www.sjsu.edu/at/ec/canvas/student_resources/

Video Conference: Appointments can be requested any day; we can meet via Skype Video Chat, WebEx, Facetime or Collaborate in Canvas

Telephone: The best way to reach instructor is by posting in “Don's Office” discussion in Canvas or call Skype number: dreed100 or (415) 877-1842; SJSU office number, (408)-924-5036, is only checked on Monday of each week

Email/Discussions: As mentioned above, the most efficient way to reach the instructor is by posting in the Don's Office discussion in Canvas since other students may be able to answer your question and may benefit from your question. Do not use email, inside or outside of Canvas, unless it is a personal matter.

Don's Office discussion and Inbox email in Canvas will be checked each morning, Monday through Friday, before noon. Email sent on Friday afternoon may not be answered until Monday morning at noon.

Office Hours at SJSU: M: 11:15-11:45 and 1:15-1:45

Online Office Hours: TRF: 1:00-2:00 or by appointment; phone and videoconference available by request

Prerequisites: Completion of all core GE courses, completion of WST test, completion of, or co-registration in, 100W, and passing score on ELM Test and Math 7 (Intermediate Algebra) or equivalent.

Students must have access to a computer with speakers and a high-speed connection to the Internet (for example, DSL, Cable or Satellite).

GE/SJSU Studies Category: Area R: Earth and Environment
Course Description

This course will focus on the scientific examination of the impact of the oceans on global society, and human impacts on the oceans.

The course will be comprised of five integrated modules:

1. Marine resources and sustainability
2. Global marine hazards
3. Marine ecosystems
4. Ocean and climate
5. Ocean research

This course meets Area R for SJSU Studies requirements. Courses to meet Areas R, S, and V of SJSU Studies must be taken from three different departments, or distinct academic units.

SJSU Studies Area R Learning Outcomes

All SJSU Studies Area R courses require that students achieve the following learning outcomes (http://www.sjsu.edu/ugs/docs/GE/GE_Guidelines_S09_revisions.pdf):

Learning Outcome #1 - Students will be able to demonstrate an understanding of the methods and limitations of scientific investigations of the global ocean;
Learning Outcome #2 - Students will be able to distinguish between science and pseudo-science; and
Learning Outcome #3 - Students will apply a scientific approach to answer questions about the earth and environment,

Students will achieve these outcomes by demonstrating their understanding of:

1) the connection between the ocean and global society, including the sustainability of marine resources and threats posed by geohazards,
2) the ocean ecosystem and its life forms,
3) the interactions between the ocean and climate,
4) oceanography as a global science of special interest to diverse societies of the Pacific Rim, including the multicultural population of California

Required Reading Assignments

There is no textbook, instead reading assignments associated with each expedition are assigned each week and downloadable from Modules area in course website.

Other equipment / material requirements
Colored Pencils (necessary for completing diagrams in expedition worksheets
Calculator (necessary for online work and exams)
**Nature of Weekly Work**

Students will learn about the ocean by watching mini-lectures, viewing online media about the oceans, and by undertaking virtual oceanographic research activities, called expeditions.

The expeditions, which replace classroom lectures, are web-based exercises that guide students through the subject matter by viewing text, YouTube videos, graphics, animations, and short segments of newscasts in streaming audio/video.

Keeping a detailed record of observations in experiments or field projects is an important part of all scientific investigations. Consequently, worksheets, downloaded from the Module area of Canvas, guide students through the material and provide an effective resource to record and document research and learning in the class. Taking notes, making diagrams and answering questions in the worksheets serve to highlight the most important information and therefore provide a valuable resource for preparing graded assignments (required discussions, quizzes, essays and the final exam).

The completed worksheets are not turned in and therefore points are not awarded simply for completing an expedition.

By participating and completing these expeditions, students will meet Area R GE learning outcomes #1, #2 and #3 – see list under “Course Goals and Student Learning Objectives” in this greensheet.

**Required Work Expectation in All SJSU Classes**

The following paragraph is now required in the greensheets for all classes at SJSU, whether held in classroom, online, laboratory or in a seminar.

"Success in a university course is based on the expectation that students will spend, for each unit of credit, a minimum of forty-five hours over the length of the course for instruction or preparation/studying or course related activities including but not limited to internships, labs, clinical practica. Other course structures will have equivalent workload expectations as described in the syllabus."

The SJSU policy on work expectation, stated above, requires that students spend an average of 13 to 14 hours each week on all 3 unit courses, over the 10 week special session, whether held in a classroom or online.

**Area R Writing Requirements**

All SJSU Studies GE courses are required to have at least 3000 words of written assignments, which is about 9 pages. SJSU course regulations also specify that this requirement be spread across more than one assignment in order to give appropriate feedback on the quality and form of writing. Writing assignments will be used to promote reflective processes and critical analysis while being assessed for grammar,
clarity, conciseness and coherence. Students will share their learning through electronic discussions and peer review the writing of other students in their learning group for quality and accuracy. Students should use feedback from each writing assignment to improve the quality of the subsequent writing assignment.

The required writing assignments in this class will distributed over the following assignments:

- Learning group discussion postings, if instructed to do so in expedition instructions (22 postings, approximately 50 words each, for a total of 1300 words),
- Relatively brief essays dealing with Area R required learning outcomes in the context of material covered in this class (total of 1000 words)
- Learning group discussions and the final exam in which students describe a proposed research project (700 words)

One objective of the assignments listed above is to assess the quality of student writing (not the ability to use quotations). Consequently, students shall not copy material from any publication, including web sites, even if enclosed in quotation marks. Students will be assessed on their ability to learn, integrate, and synthesize the material and then present their acquired knowledge in their own words.

**Graded Assignments**

**Learning Group Discussions (140 points – 14% of course grade)**

Students will be assigned to a learning group, typically composed of 5-6 students, for each module of the course. The requirements for the discussions vary from expedition to expedition, so students should consult the Module area of Canvas for detailed instructions and requirements. In most cases, students will be required to share their learning though discussion postings described in each expedition and then review and reply to a posting of another student in their learning group. Grading will be based on the quality, accuracy and clarity of the postings, as well as demonstrating a clear connection to the material in the expeditions or reading assignments.

Discussion posting dates are given in instructions in each expedition and listed in course schedule on home page in Canvas. There will typically be two due dates for each week: Thursday 11:59 PM and Sunday by 11:59 PM, but this may vary depending on course schedule.

By participating in learning group discussion postings, students will meet GE Area R learning outcome 1 – see list under “Course Goals and Student Learning Objectives” in this greensheet.
Learning Outcome Essays (200 points – 20% of course grade)

Students will compose and submit relatively brief essays in which they will place their work in the context of the required learning outcomes #1 and #2 for all Area R courses.

Students must first submit rough drafts of these assignments to Criterion ETS for review, and then based on the feedback, make the revisions deemed necessary and then submit final draft to Assignment area of Canvas.

These assignments will not be accepted by email.

Plagiarism violations will result in a failing grade on essay (0 points), plus a negative point penalty, and be reported as a violation of the SJSU Policy on Academic Integrity.

By completing in these essays students will meet GE Area R learning outcomes #1 and #2 – see list under “Course Goals and Student Learning Objectives” in this greensheet.

Online Multiple–Choice Quizzes (500 points - 50% of course grade)

At the end of the first four modules in the course, students will complete an “open book/open notes” online quiz, lasting approximately 40 minutes each. Each quiz will consist of 15-20 multiple-choice questions.

Students may take the quizzes anytime within a 24-hour period, specified in course schedule.

Students must work alone during the quizzes and use only their own work to answer the questions. Students may not use information from students in this class or previous classes or external websites. Any violation of these instructions will result in a failing grade on exam (0 points) and considered a violation of the SJSU Policy on Academic Integrity.

Requests for a change in the date and time of a quiz for personal reasons, must be emailed or called in to instructor before the start of the quiz period. Students who do not take quiz within scheduled period and do not contact the instructor in advance of opening of the quiz will be assessed a late penalty.

Final Exam (160 points – 16% of course grade)

Students will apply a scientific approach to a current scientific question dealing with the ocean by designing an original research study that will acquire knowledge on a topic of their own selection.

Students will share their ideas and critique those of their peers in the required expedition discussions leading up to the final exam. These discussions will help
students focus on potential ideas to develop in more detail, including the rationale and project design, in a 600-800 word-long essay.

Students will then submit a rough draft of their research study to Criterion ETS for a grammar and composition check, make revisions based on this feedback, and then submit the final draft to the Assignment area of Canvas during the scheduled time for the final exam.

Grading of essay will be based on writing quality, critical and creative thinking, and scientific knowledge of the proposed topic.

Plagiarism violations will result in a 0 score on final exam (0 points), plus a negative point penalty, and be reported as a violation of the SJSU Policy on Academic Integrity.

By completing this assignment, students meet GE Area R learning outcome 3 – see list under “Course Goals and Student Learning Objectives” in this greensheet.

**Grading Policy**

**Due Dates and Late Policy on All Graded Assignments**

It is the responsibility of each student to follow the Due Dates in the Course Schedule section of this greensheet. Point deductions will be assessed for all work submitted after the due dates:

- 0-6 hours late – 5% deduction of total points possible
- 6-24 hours after deadline – 10% deduction of total points possible
- 25-48 hours after deadline – 20% deduction of total points possible

Late submissions will not be accepted if more than 48 hours after deadline.
Course Grade (based on 1000 points)

A minimum aggregate GPA of 2.0 in SJSU Studies (R, S, & V) shall be required of all students obtaining a first baccalaureate degree at SJSU.

Grades in the class are based on combination of assignments, listed individually below, resulting in a total of 1000 points. No extra credit is available in the class. All scores and grades can be followed in Canvas Grades area at any time.

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Score (possible)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation in Required Discussions</td>
<td>_______ (140)</td>
</tr>
<tr>
<td>Learning Outcome Essays</td>
<td></td>
</tr>
<tr>
<td>Essay Learning Outcome #1</td>
<td>_______ (120)</td>
</tr>
<tr>
<td>Essay Learning Outcome #2</td>
<td>_______ (80)</td>
</tr>
<tr>
<td>Quizzes</td>
<td></td>
</tr>
<tr>
<td>Unit 1</td>
<td>_______ (125)</td>
</tr>
<tr>
<td>Unit 2</td>
<td>_______ (125)</td>
</tr>
<tr>
<td>Unit 3</td>
<td>_______ (125)</td>
</tr>
<tr>
<td>Unit 4</td>
<td>_______ (125)</td>
</tr>
<tr>
<td>Final Exam</td>
<td></td>
</tr>
<tr>
<td>Top Ten Posting</td>
<td>_______ (10)</td>
</tr>
<tr>
<td>Question/Hypothesis Posting</td>
<td>_______ (30)</td>
</tr>
<tr>
<td>Essay Learning Outcome #3</td>
<td>_______ (120)</td>
</tr>
<tr>
<td><strong>Total Points at end of course</strong></td>
<td>_______ (1000)</td>
</tr>
</tbody>
</table>

Letter grades are not assigned individual assignments, but can be estimated by applying a straight percentage scale shown below. At the end of the course, letter grades are based on the same scale:

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage</th>
<th>Score Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>100-91.5%</td>
<td>1000-915</td>
</tr>
<tr>
<td>A-</td>
<td>91.4-89.5%</td>
<td>914-895</td>
</tr>
<tr>
<td>B+</td>
<td>89.4-87.5%</td>
<td>894-875</td>
</tr>
<tr>
<td>B</td>
<td>87.4-81.5%</td>
<td>874-815</td>
</tr>
<tr>
<td>B-</td>
<td>81.4-79.5%</td>
<td>814-795</td>
</tr>
<tr>
<td>C+</td>
<td>79.4-77.5%</td>
<td>794-775</td>
</tr>
<tr>
<td>C</td>
<td>77.4-71.5%</td>
<td>774-715</td>
</tr>
<tr>
<td>C-</td>
<td>71.4-69.5%</td>
<td>714-695</td>
</tr>
<tr>
<td>D+</td>
<td>69.4-67.5%</td>
<td>694-675</td>
</tr>
<tr>
<td>D</td>
<td>67.4-61.5%</td>
<td>674-615</td>
</tr>
<tr>
<td>D-</td>
<td>61.4-59%</td>
<td>614-590</td>
</tr>
<tr>
<td>Less than 590</td>
<td>not passing</td>
<td></td>
</tr>
</tbody>
</table>
University Policies

Dropping and Adding
Students are responsible for understanding the policies and procedures about add/drops, academic renewal, etc. Information on dropping class can be accessed at: http://www.sjsu.edu/winter/registration/drop/. Students should be aware of the current deadlines and penalties for adding and dropping classes.

Academic Integrity
Students should know that the University's Academic Integrity Policy is available at http://www.sa.sjsu.edu/download/judicial_affairs/Academic_Integrity_Policy_S07-2.pdf. Your own commitment to learning, as evidenced by your enrollment at San Jose State University and the University's integrity policy, require you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The website for Student Conduct and Ethical Development is available at http://www.sa.sjsu.edu/judicial_affairs/index.html.

“Word for Word” copying from articles or web sites, or using quotations, does not meet the Area R writing requirement and is therefore forbidden in this class. As in any university work, students can use ideas and concepts from web sites or hardcopy materials, if the source is properly cited. Instances of academic dishonesty will not be tolerated in this class. Cheating on exams or plagiarism (presenting the work of another as your own, such as using outside web sites for information during exam, or the use of another person’s ideas in writing assignments without giving proper credit) will result in a “0” grade, plus additional point penalties, generally negative point deductions of the magnitude of specific assignment (e.g. 100 pt. assignment, -100 point score on assignment) and sanctions by the University. For this class, all assignments, including electronic discussions, are to be completed by the individual student unless otherwise specified. Students who provide information about quizzes and exams, or material for writing assignments, to other students will also be subject to the penalties described above. If you would like to include in your assignment any material you have submitted, or plan to submit for another class, please note that SJSU’s Academic Policy F06-1 requires approval of instructors. Quizzes and exams are assignments to be completed alone; evidence of collaborating with another person while taking the quiz or exam will result in an “F” in the class and submission of Academic Integrity Violation Report to the university.

Campus Policy in Compliance with the American Disabilities Act
If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 requires that students with disabilities requesting accommodations must register with the LAC (Learning Accessibility Center) to establish a record of their disability.

Canvas Resources
For students experiencing technical problems with Canvas (eg. unable to log in, need password re-set, etc.), please contact San Jose State University’s Information Technology Support Services (ITSS) at 408-924-2377, or email at
helpdesk@sjsu.edu  ITSS is located on the first floor of the Academic Success Center in Clark Hall, if students wish to speak with someone in-person. See page 1 of this greensheet for link to Canvas Student Resources.

**Learning Assistance Resource Center**

The Learning Assistance Resource Center (LARC) is located in Room 600 in the Student Services Center. It is designed to assist students in the development of their full academic potential and to motivate them to become self-directed learners. The center provides support services, such as skills assessment, individual or group tutorials, subject advising, learning assistance, summer academic preparation and basic skills development. [The LARC website is located at http://www.sjsu.edu/larc/](http://www.sjsu.edu/larc/).

**SJSU Writing Center**

The SJSU Writing Center is located in Room 126 in Clark Hall. It is staffed by professional instructors and upper-division or graduate-level writing specialists from each of the seven SJSU colleges. These specialists have met a rigorous GPA requirement, and they are well trained to assist all students at all levels within all disciplines to become better writers. [The Writing Center website is located at http://www.sjsu.edu/writingcenter/about/staff/](http://www.sjsu.edu/writingcenter/about/staff/).
Course Schedule with All Assignment Due Dates

The course schedule is subject to change with fair notice through announcements on course home in Canvas.

Expeditions will go online each Monday at 2 PM and need to be completed by the due date listed in course schedule below.

<table>
<thead>
<tr>
<th>Week Date</th>
<th>Expedition Topics, Assignments, and Due Dates/Times</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 3/11-3/16</td>
<td><strong>Unit 1 Module - Marine Resources and Sustainability</strong>&lt;br&gt;Expedition #1 Introduction - Complete by Thurs. Mar. 13 at 11:59 PM&lt;br&gt;Expedition #2 Marine Resources - Complete by Sun. Mar. 16 at 11:59 PM</td>
</tr>
<tr>
<td>3 3/24-3/30</td>
<td><strong>Module 1 Quiz – Available Tues. Mar. 25 from 1 PM to Wed. Mar. 26 at 1 PM</strong>&lt;br&gt;<strong>Unit 2 Module – Marine Geohazards</strong>&lt;br&gt;Expedition #6 The Bottom of the Ocean - Complete by Thurs. Mar. 27 at 11:59 PM&lt;br&gt;Expedition #7 Commotion Beneath the Ocean - Complete by Sun. Mar. 30 at 11:59 PM</td>
</tr>
<tr>
<td>4 4/1-4/6</td>
<td>Learning Outcome #1 Essay - due by Tues. April 1 at 11:59 PM&lt;br&gt;Expedition #8 Boundaries Beneath the Sea - Complete by Thurs. April 3 at 11:59 PM&lt;br&gt;Expedition #9 Japan’s Killer Quake – Complete by Sun. April 6 at 11:59 PM</td>
</tr>
<tr>
<td>5 4/7-4/13</td>
<td>Expedition #10 Tsunami – Complete by Thurs. April 10 at 11:59 PM&lt;br&gt;<strong>Unit 3 Module – Marine Ecosystems</strong>&lt;br&gt;Expedition #11 The Briny Deep - Complete by Sun. April 13 at 11:59 PM</td>
</tr>
<tr>
<td>6 4/14-4/20</td>
<td><strong>Module 2 Quiz – Available Tues. April 15 from 1 PM to Wed. April 16 at 1 PM</strong>&lt;br&gt;Expedition #12 Supporting the Marine Ecosystem - Complete by Thurs. April 17 at 11:59 PM&lt;br&gt;Expedition #13 Diving into the Canyon - Complete by Sun. April 20 at 11:59 PM</td>
</tr>
<tr>
<td>7 4/21-4/27</td>
<td>Expedition #14 Dive Inside Undersea Volcanoes– Complete by Thurs. April 23 at 11:59 PM&lt;br&gt;Expedition #15 Carbon Dioxide and the Ocean – Complete by Sat. April 26 at 11:59 PM&lt;br&gt;<strong>Unit 4 Module – Ocean and Climate</strong>&lt;br&gt;Expedition #16 Global Circulation – Complete by Sun. April 27 at 11:59 PM</td>
</tr>
<tr>
<td>8 4/28-5/4</td>
<td><strong>Module 3 Quiz – Available Tues. April 29 from 1 PM to Wed. April 30 at 1 PM</strong>&lt;br&gt;Expedition #17 Tracking Drifter Buoys - Complete by Thurs. May 1 at 11:59 AM&lt;br&gt;Expedition #18 Ocean – The Climate Regulator - Complete by Sun. May 4 at 11:59 PM</td>
</tr>
<tr>
<td>9 5/5-5/11</td>
<td>Learning Outcome #2 Essay due by Tues. May 6 at 11:59 PM&lt;br&gt;Expedition #19 Where the Water Goes - Complete by Thurs. May 8 at 11:59 PM&lt;br&gt;<strong>Unit 5 Module – Ocean Research</strong>&lt;br&gt;Expedition #20 Changing Sea Level - Complete by Sun. May 11 at 11:59 PM</td>
</tr>
<tr>
<td>10 5/12-5/18</td>
<td><strong>Module 4 Quiz – Available Tues. May 13 from 1 PM to Wed. May 14 at 1 PM</strong>&lt;br&gt;Expedition #21 Top Ten – Complete by Thurs. May 15 at 11:59 PM&lt;br&gt;Expedition #22 Your Question/Hypothesis – Complete by Sat. May 17 at 11:59 PM</td>
</tr>
</tbody>
</table>