Science, Technology, Engineering and Mathematics (STEM) Division
Geology 1445, Oceanography (4 Credit Hours)
Section 49400
Spring 2020

Times: Lab: INTERNET
Lecture: INTERNET

Instructor: Dr. Daniel Murphy
Office: Eastfield Main Campus - C341
Office Hours: MTWR 8:00-9:00, or by appointment
Blackboard Collaborate Hours: R 2:30-3:30 PM
Telephone (Office): (972) 860-7180 (not best way to get hold of me)
E-mail: danielmurphy@dccc.edu

Course Description:
This is an introductory study of the geological, chemical, physical and biological characteristics and processes of earth's oceans. Topics include the formation of ocean basins and geologic materials, composition of seawater, currents, waves and tides, oceanic interaction with the atmosphere, marine pollution, marine resources, and life in the ocean. (3 Lec., 3 Lab.)
Coordinating Board Academic Approval Number 4006015103

Prerequisite
College level ready in Reading.

Required Materials
- Access code to Modified Mastering Oceanography is required as there are assignments associated with it.
  * If your used textbook does not come with the code, you are required to purchase it separately. Also available as eText.
- Other materials: 1. Access to a scanner or digital camera (cell phone camera is acceptable), 2. Ruler, 3. Color pencils, and 4. a Calculator

General Information
- This course will be conducted completely online with scheduled due dates.
- Every assignment is due by Thursday at 11:59PM of the assigned week (see schedule, pg. 5).
- Every test is due by Friday at 11:59PM of the assigned week (see schedule, pg. 5).
- To successfully complete the course, you are expected to have (or obtain) the necessary technical skills.
- I will hold weekly virtual office hours on Blackboard Collaborate from 2:30-3:30 PM every Thursday if you need to ask questions. You can find the link in the Online Office.
Hours tab. Click on the link and then click Join Room on the right hand side. You can talk to me using the chat feature, via webcam, or only audio. Up to you.

- When contacting me, please include your course information in the subject line. Make sure you also sign the mail at the bottom, so I know who you are. You would be surprised how many random emails I get from pixiestudent@gmail (for example), and they expect me to know who they are.

**Last Day to Withdraw with a ‘W’: February 26th**

**Course Requirements:**
Good reading habits and reading comprehension skills are important to doing well in this course. This course is not entirely self-paced. Each unit will have distinct end dates in which labs and assignments will be due. Most quizzes and labs will not be available from the start. In other words you cannot finish the course in a couple of weeks. It will take all semester and there are weekly deadlines. Similarly, you cannot wait until mid-semester to start the course because the deadlines for half of the quizzes and labs will have ended.

**Respondus Browser**
**Directions for accessing the “Respondus” download link:** When you log onto eCampus, there are choices to your left under TOOLS. About the ninth one down, under tools, is Respondus Lockdown Browser...Click that! It will take you to an installation page. On the installation page, you will select the operation system that your computer is using. Choose your operating system. From there, once the installation has downloaded, you will need to sign into eCampus again through the Respondus software that you downloaded. You will not be able to view any other pages except those that are in eCampus. Find the test that you need to take and that’s it!!

**Criteria for Grading:**
This class has 4 exams, 16 quizzes, 12 assignments on the Mastering Oceanography website, and 12 lab exercises. Course grade is based on a total of 900 class points. Breakdown of the point distribution and grading scheme is shown in the table below. You can ask me your grade at any of my office hours.

**Point Distribution:**

<table>
<thead>
<tr>
<th>Grading Item</th>
<th>Class Points</th>
<th>Point Scale</th>
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</thead>
<tbody>
<tr>
<td>Lecture Exams (4); 105 points each</td>
<td>420</td>
<td>810 - 900 points = A</td>
</tr>
<tr>
<td>Quizzes (16); 6 points each</td>
<td>96</td>
<td>720 - 809 points = B</td>
</tr>
<tr>
<td>Mastering Assignments (12); 7 points each</td>
<td>84</td>
<td>630 - 719 points = C</td>
</tr>
<tr>
<td>Lab Exercises (12); 25 points each</td>
<td>300</td>
<td>540 - 629 points = D</td>
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<tr>
<td><strong>Total Class Points:</strong></td>
<td><strong>900</strong></td>
<td><strong>Below 540 points = F</strong></td>
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</tbody>
</table>

**Lecture Exams:** Students are expect to take these exams at their scheduled time. The Lecture Exams will include a variety of question formats, including multiple-choice and fill in the blank. All exams are closed book. All exams must be completed in the Respondus Lockdown Browser. No exams grades are dropped.
Lab Work
There is no lab manual for the course. Labs will be made available over eCampus as the semester progresses. These labs will be due every Thursday by 11:59 PM. They make up 33% of your grade so do not miss them! Some lab assignments may ask you to take a picture to fulfill a certain answer and upload the file. Please write your name on anything you take a picture of, so I know who it belongs to. Make sure you have access to some sort of camera.

Quizzes
There will be one short chapter quizzes for each chapter for a total of 16 quizzes. The quizzes will have unlimited time to complete them, and they are open book, open notes. These are designed to get you looking through the book. Do not miss them!

Mastering Oceanography Assignments
There are 12 assignments on the Mastering Oceanography website. To get to the website, you will click on the ‘Mastering Assignments’ link in that chapter’s folder. The first time you attempt to access the Mastering Oceanography website, it will ask you to enter your access code. You should have gotten one of these codes when you purchased your book. If your code does not work, let me know immediately! These assignments are relatively simple, and mostly consist of you watching a video and answering questions about it.

*****Certification*****
You must attend and participate in your on-campus or online course(s) in order to receive federal financial aid. Your instructor is required by law to validate your attendance in your on-campus or online course in order for you to receive financial aid. You must participate in an academic related activity pertaining to the course but not limited to the following examples: initiating contact with your instructor to ask a question about the academic subject studied in the course; submitting an academic assignment; taking an exam; completing an interactive video; participating in computer-assisted instruction; attending a study group assigned by the instructor; or participating in an online discussion board about academic matters relating to the course. In an online course, simply logging in is not sufficient by itself to demonstrate academic attendance. You must demonstrate that you are participating in your online class and are engaged in an academically related activity such as in the examples described above. Failure to do so will prevent you from being certified and will affect your financial aid.

Make-up & Late Assignment
This class is NOT a self-paced class. Do not plan to complete all your assignments on the due date as you may get sick or have a computer problem on that day. Tests and orientation activities will remain open for one week after the due date with the exception of test 4. Twenty point deduction will be applied to the score. Any incomplete assignments after one week will receive a zero. All coursework must be completed by 03/12/2020. Any incomplete assignments after this date will receive a zero.

Academic Dishonesty
Students caught cheating will receive a failing grade for the course, and will be reported to school officials. Copying someone else’s assignments and/or labs is considered cheating. Both the student who copied, and the student who allowed someone else to copy, will be penalized.
Course Communication
Frequent monitoring of the eCampus website for posted announcements is expected.

Student Learning Outcomes
1. Explain how the study of the oceans is dependent on the four branches of physical science: chemistry, physics, biology, and geology
2. Describe the structure and geography of the oceans
3. Explain how oceans redistribute energy on Earth, including its interaction with the climate system.
4. Identify the major oceanographic ecosystems and describe the organisms within them.
5. Be able to describe the nature of scientific inquiry.

Institutional Policies relating to this course can be accessed from the following link:
https://www.eastfieldcollege.edu/syllabipolicies

The instructor reserves the right to amend this syllabus as necessary.
<table>
<thead>
<tr>
<th>Date</th>
<th>Reading Assignment</th>
<th>Topic</th>
<th>Due</th>
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</thead>
<tbody>
<tr>
<td>Week 1:</td>
<td>Chs 1 &amp; 2</td>
<td>The Earth &amp; Plate Tectonics</td>
<td>Labs 1-2; Quizzes 1-2; Mastering 1-2</td>
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<tr>
<td>Jan 21-23</td>
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<tr>
<td>Week 2:</td>
<td>Chs 3 &amp; 4</td>
<td>Structure of the Oceans &amp; Seafloor Sediments</td>
<td>Test 1 (Ch 1-4); Lab 3; Quizzes 3-4</td>
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<td>Jan 27-30</td>
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<tr>
<td>Week 3:</td>
<td>Chs 5 &amp; 6</td>
<td>Properties of Water &amp; Air-Sea Interactions</td>
<td>Lab 4; Quizzes 5-6; Mastering 3</td>
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<td>Feb 3-6</td>
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<td>Week 4:</td>
<td>Chs 7 &amp; 8</td>
<td>Ocean Circulation &amp; Waves</td>
<td>Test 2 (Ch 5-8); Labs 5-6; Quizzes 7-8; Mastering 4-5</td>
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<td>Feb 10-13</td>
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<td>Week 5:</td>
<td>Chs 9 &amp; 10</td>
<td>The Tides &amp; The Coasts</td>
<td>Labs 7-8; Quizzes 9-10; Mastering 6-7</td>
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<td>Feb 17-20</td>
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<td>Week 6:</td>
<td>Chs 11 &amp; 12</td>
<td>Marine Pollution &amp; Marine Life</td>
<td>Test 3 (Ch 9-12); Lab 9; Quizzes 11-12; Mastering 8-9</td>
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<td>Feb 24-27</td>
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<td>Week 7:</td>
<td>Chs 13 &amp; 14</td>
<td>Oceanic Productivity &amp; Pelagic Animals</td>
<td>Lab 10; Quizzes 13-14; Mastering 10-11</td>
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<td>Mar 2-5</td>
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<tr>
<td>Week 8:</td>
<td>Chs 15 &amp; 16</td>
<td>Benthic Animals &amp; Global Climate Change</td>
<td>Test 4 (Ch 13-16); Lab 11-12; Quizzes 15-16; Mastering 12</td>
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<td>Mar 9-12</td>
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