Science, Technology, Engineering and Mathematics (STEM) Division
Geology 1401, Earth Science (4 Credit Hours)
Section 40003
Spring 2020

Times:
Lecture: INTERNET
Lab: INTERNET

Instructor: Dr. Daniel Murphy
Office: C341
Office Hours: M W 3:00-4:00 (virtual), or by appointment.
E-mail: danielmurphy@dcccd.edu

Course Description:
This course is for the non-science major. It is an introductory survey of physical geology, historical geology, oceanography, meteorology, and astronomy. It relates the interaction of the earth sciences to the physical world. (3 Lec., 3 Lab.) Coordinating Board Academic Approval Number 4006015103

Prerequisite
One of the following must be met: (1) Developmental Reading 0093 or (2) English as a Second Language (ESOL) 0044 or (3) have met the Texas Success Initiative (TSI) Reading standard.

Required Materials
  - Access code to Modified Mastering Geology 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, 4. A compass (for drawing circles, not finding north), and 5. a Calculator

General Information
- This course is a blended course, which means the lecture portion will be conducted completely online with scheduled due dates, while the lab meets in person once a week.
- Every lecture 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 twice weekly virtual office hours on Blackboard Collaborate from 2:00-3:00 PM every Monday and Wednesday 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 email at the bottom, so I know who you are. You would be surprised how many random emails I get from pixiestudent@gmail (made-up email for example), and they expect me to know who they are.

Last Day to Withdraw with a ‘W’: May 1st

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 3 exams, 14 quizzes, 10 assignments on the Mastering Geology website, 12 lab exercises and one lab exam. Course grade is based on a total of 1002 class points. Breakdown of the point distribution and grading scheme is shown in the table below.

Point Distribution:

<table>
<thead>
<tr>
<th>Grading Item</th>
<th>Class Points</th>
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<tbody>
<tr>
<td>Lecture Exams (2); 125 points each</td>
<td>250</td>
</tr>
<tr>
<td>Quizzes (14); 8 points each</td>
<td>112</td>
</tr>
<tr>
<td>Mastering Assignments (10); 10 pts each</td>
<td>100</td>
</tr>
<tr>
<td>Lab Exercises (12); 20 points each</td>
<td>240</td>
</tr>
<tr>
<td>Lab Exam: 100 points</td>
<td>100</td>
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<tr>
<td>Comprehensive Final Exam</td>
<td>200</td>
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Total Class Points: 1002

Point Scale

<table>
<thead>
<tr>
<th>Point Scale</th>
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</thead>
<tbody>
<tr>
<td>900 – 1002 points = A</td>
</tr>
<tr>
<td>800 – 899 points = B</td>
</tr>
<tr>
<td>700 – 799 points = C</td>
</tr>
<tr>
<td>600 – 699 points = D</td>
</tr>
<tr>
<td>Below 600 points = F</td>
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</table>
**Lecture Exams:**
Students are expected 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 Geology Assignments**
There are 12 assignments on the Mastering Geology 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 Geology 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 05/13/20.** 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
Lecture:
1. Explain the current theories concerning the origin of the Universe and of the Solar System.
2. Explain the place of Earth in the Solar System and its relationships with other objects in the Solar System.
3. Relate the origin and evolution of Earth’s internal structures to its resulting geologic systems, including Earth materials and plate tectonic activities.
4. Explain the operation of Earth’s geologic systems and the interactions among the atmosphere, the geosphere, and the hydrosphere, including meteorology and oceanography.
5. Explain the history of the Earth including the evolution of earth systems and life forms.

Lab:
1. Classify rocks and minerals based on chemical composition, physical properties, and origin.
2. Apply knowledge of topographic maps, diagrams, and/or photographs to identify landforms and explain the processes that created them.
3. Differentiate the types of plate boundaries, explain the processes that occur at each and identify associated structural features on maps, block diagrams and cross sections.
4. Apply relative and numerical age-dating techniques to construct geologic histories.
5. Measure atmospheric processes that affect weather and climate.
6. Describe the composition and motion of ocean water and analyze the factors controlling both.
7. Compare properties and motions of objects in the solar system.
8. Demonstrate the collection, analysis, and reporting of data.

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>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1: Mar 30 – Apr 2</td>
<td>Introduction and Ch 5</td>
<td>Introduction to the Earth &amp; Plate Tectonics</td>
<td>Labs 24 and 3; Quizzes 1-2; Mastering 1-2</td>
</tr>
<tr>
<td>Week 2: Apr 6-9</td>
<td>Chs 1 &amp; 2</td>
<td>Rocks and Minerals</td>
<td>Lab 1 and 2; Quizzes 3-4</td>
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<tr>
<td>Week 3: Apr 13-16</td>
<td>Chs 6 &amp; 7</td>
<td>Earthquakes, Mountains, and Volcanoes</td>
<td>Test 1 (Ch 1,2,5,6,7 &amp; Intro); Labs 4 and 5; Quizzes 5-6; Mastering 3</td>
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<tr>
<td>Week 4: Apr 20-23</td>
<td>Chs 8 &amp; 3</td>
<td>Geologic Time &amp; The Work of Water</td>
<td>Labs 10 and 7; Quizzes 7-8; Mastering 4-5</td>
</tr>
<tr>
<td>Week 5: Apr 27-30</td>
<td>Chs 9 &amp; 10</td>
<td>The Tides &amp; The Coasts</td>
<td>Labs 11-12; Quizzes 9-10; Mastering 6-7</td>
</tr>
<tr>
<td>Week 6: May 4-7</td>
<td>Chs 11 &amp; 12</td>
<td>The Atmosphere &amp; Humidity</td>
<td>Test 2 (Ch 3, 8-12); Labs 13-15; Quizzes 11-12; Mastering 8-9</td>
</tr>
<tr>
<td>Week 7: May 11-13</td>
<td>Chs 15 &amp; 16</td>
<td>The Solar System &amp; The Universe</td>
<td>Labs 19 and 22; Quizzes 15-16; Mastering 12; Final Exam (Cumulative + Ch 15-16)</td>
</tr>
</tbody>
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