Geology 1401 – 29420  Earth science for Non – science majors

Section: 29420
4 Credit Hours
Lecture and lab activities are online

Instructor: L. Bradshaw  M.S.
Office: K 144
Office hours: M-W  2:00 – 3:00, T-R  9-10:30
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Prerequisite: Developmental Reading 0093 or English as a Second Language (ESOL) 0044 or have met the Texas Success Initiative (TSI) standard in reading.

From the DCCCD Catalog: 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.)

Student Learning Outcomes:

Upon successful completion of this course, you will:
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.

EXEMPLARY EDUCATIONAL OBJECTIVES:

Because this course is a choice for core curriculum credit, the following OBJECTIVES and COMPETENCIES are covered in accordance with the District curriculum process.

EDUCATIONAL OBJECTIVES:
1. To understand and apply method and appropriate technology to the study of the natural sciences.
2. To recognize scientific and quantitative methods and the differences between these approaches and the other methods of inquiry and to communicate findings, analyses and interpretation both orally and in writing.
3. To identify and recognize the differences among competing scientific theories.
4. To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values and public policies.
5. To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to modern culture.

INTELLECTUAL COMPETENCIES:
1. READING—the ability to analyze and interpret a variety of printed materials—books, documents and articles—above 12th grade level.
2. WRITING—the ability to produce clear, correct and coherent prose adapted to purpose occasion and audience—above 12th grade level.
3. LISTENING—analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading—above 12th grade level.
4. CRITICAL THINKING—think and analyze at a critical level.
5. COMPUTER LITERACY—understand our technological society, use computer-based technology in communication

Required Materials
Geology 1401 Earthscience Lab Kit – buy from the Brookhaven Bookstore. You must have this the 1st week of class.

Course Outline/Calendar:

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<th>Week</th>
<th>Lecture Topics</th>
<th>Lab Topics</th>
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<tbody>
<tr>
<td>Week 1</td>
<td>Ch. 1 Minerals</td>
<td>Ex: 1 Study of minerals</td>
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<td>Week 2</td>
<td>Ch. 2 Rocks</td>
<td>Ex: 2 Rocks and Rock Cycle</td>
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<td>Week 3</td>
<td>Ch. 5 Plate Tectonics</td>
<td>Ex: 3 Plate Tectonics</td>
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<td>Ch. 6 Earthquakes</td>
<td>Ex: 4 Earthquakes</td>
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<td>Week 4</td>
<td>Ch. 7 Volcanoes</td>
<td>Ex: 5 Volcanoes</td>
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<td>Ch. 8 Geologic Time</td>
<td>Ex: 10 Geologic Time</td>
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<td>Week 5</td>
<td>Ch. 9 Oceans: Last Frontier</td>
<td>Ex: 11 Intro to Oceanography</td>
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<td>Ch. 10 The Restless Ocean</td>
<td>Ex: 12 Waves, Currents, Tides</td>
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<td>Week 6</td>
<td>Ch. 11 Heating the Atmosphere</td>
<td>Ex: 14 Heating the Atmosphere</td>
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<td>Ch. 12 Moisture, Clouds, and Precipitation</td>
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Ex: 15 Atmospheric Moisture, Pressure and Wind

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<th>Week</th>
<th>Chs</th>
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<td>7</td>
<td>15</td>
<td>19</td>
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<tr>
<td>3/2-3/9</td>
<td>Nature of the Solar System</td>
<td>Patterns in the Solar System</td>
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<td>16</td>
<td>Beyond Our Solar System</td>
<td>Examining the Terrestrial Planets</td>
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<tr>
<td>Final</td>
<td>Comprehensive Final</td>
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Other important dates:
February 3rd. Certification day—if I have not seen activity by you in the class, I must report it to the college.
February 26, Drop day.

Evaluation Procedures: You will be evaluated by weekly quizzes, lab activities and a comprehensive final.

Grading Scale:
Quizzes - 40%
Labs – 40%
Final – 20%

A = 100 – 90
B = 89 – 80
C = 79 – 70
D = 69 – 60
F = >60

Make-ups
Make-ups are not allowed because this is an online class. Everything is open so you can do anything you need to ahead of time.

How to be successful in this class.
On the calendar above you see the date of the beginning of each week. When you look at the class webpage you will see a series of tabs with the start date for each week. When you click on the tab everything you are assigned for that week will be available.
So in week one you will have a reading assignment(s), a powerpoint(s), a lab activity(s) and a quiz. Everything assigned during that week must be completed by the end of the week. My suggestion is that you do the reading assignment(s) as early in the week as possible. Once you have read then you can use the PowerPoints to study for the quiz. While you are studying for the quiz you can do your lab assignment(s). Everything must be finished and turned in by 11:59pm on the last day of the week which will be the following Monday. So, week one starts on Jan. 21 and ends on Jan 27. Week 2 starts on Jan 27 and ends on Feb. 3. So each week ends and begins on the same day. At 12am on the last day of the week the quiz will close, even if you are in the middle of taking it. So, make sure you leave enough time to finish before 12am. The homework tab also closes at that time.
**Important:** Do not open the quiz until you are ready to take it. If you do the program will think you have taken it and you will not be allowed back in. If something happens during the quiz do not close it. Stop what you are doing and contact tech support, that way they can see what is happening and hopefully fix it. At least they will be able to tell me that it was not your fault and I can determine what to do. If you do not do this, I may not be able to help you.

If you have questions about the class please email.

*Also very Important*
I am expecting you to do your own work. If you get your answers from the internet I can tell. I have students turn in answers that they could not have gotten from the manual. USE THE MANUAL. If I find answers like that you will get a zero for any assignments affected. Just be honest.

**INSTITUTIONAL POLICIES:**

**WITHDRAWAL**
If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar’s Office by **Oct. 3rd**. If you do not drop and simply stop participating in class, will usually result in your receiving a performance grade, usually an “F.” If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a “W” (Withdraw) in each class dropped. For procedures see the Brookhaven College website and select A-Z for a listing.

**STOP BEFORE YOU DROP**
For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: [https://www1.dcccd.edu/coursedrops](https://www1.dcccd.edu/coursedrops)

**ACADEMIC DISHONESTY POLICY**
Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the Dallas County Community Colleges Code of Student Conduct published in the Brookhaven College Catalog.

[https://www1.dcccd.edu/catalog/ss/code.cfm?loc=2](https://www1.dcccd.edu/catalog/ss/code.cfm?loc=2)

**THE AMERICANS WITH DISABILITIES ACT INFORMATION**
If you are a student with a disability and/or special needs who requires ADA accommodations, please contact your Disability/Special Services office in Room S-124 or call 972-860-4847 on the Brookhaven Campus.

**STUDENT ABSENCES DUE TO RELIGIOUS OBSERVANCE:**
Absences for observance of religious holy days are excused. A student whose absence is excused to observe a religious holy day is allowed to make-up an examination or complete an assignment within a reasonable time after the absence.

REPEATING THIS COURSE:
Effective with the Fall 2005 Semester, the Dallas County Community Colleges will charge additional tuition to students registering the third of subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any Dallas County Community Colleges since the Fall 2002 Semester.

RETRIEVING YOUR GRADE AND ECONNECT
Grades may be checked on-line through eConnect or by visiting the Advising Center. Specific instructions for obtaining your grades can be found at http://www.brookhavencollege.edu/studentsvcs/grades/
Go the Brookhaven College website and select A-Z and student services to learn about all their services.

STUDENTS RECEIVING FINANCIAL AID:
If you are receiving Financial Aid grants or loans, you must show participation in this class prior to the certification date of February 4, 2013 by either e-mailing or contacting the instructor or logging on to eCampus. Do not drop or stop attending any class without consulting the Financial Aid office. Changes in your enrollment level and/or failing grades may have adverse consequences. Phone: 972-860-4110.

TESTING CENTER: Cell phones and pagers are no longer allowed in the Testing Center (if applicable).

GENERAL STATEMENT: The instructor reserves the right to modify any course requirements, grading procedures and other related policies as circumstances dictate.