Geology 1401 Earth science for Non – science majors
Fall 2020
BROOKHAVEN COLLEGE

Section: 23002
Lecture: M-W,10:30-11:50, Rm. K108
Lab: M-W,12:00-1:20, Lab K108

Instructor: L. Bradshaw, M.S.
Office: K -144
Office hours: M-W 2:00 – 3:00, T-R 9:00-10:30
Telephone: 972/860-4713
E-mail: LannaBradshaw@dcccd.edu

This course is 4 credit hours

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.)
Coordinating Board Academic Approval Number 4006015103

Attendance Policy: You must attend class to do well. It is important for you to engage with me and with 
other students. If you are going to be absent for an extended period please see me. If you decide you 
aren’t coming back, be sure to drop. The instructor will not drop for you. If you do not drop you will 
probably end the class with an “F”.

Cell Phones and Behavior: You are allowed to have your cell phone on the desk, you may glance at it 
now and then. You may not text, have an oral conversation, look at facebook or anything else that you 
have not been asked or allowed to do. You are adults, as such I will treat you with respect. I expect the 
same in return. It is my job to make sure everyone is in an atmosphere that learning can take place. I 
cannot allow anyone to disturb other students.

Lateness: I understand that things happen and you might be late from time to time. Please do not be 
late on a regular basis, it is distracting to me and to other students. If you are late, when you enter the 
room please do so as quietly as possible so as not to interrupt the flow of the class.

Cheating: As with most classes cheating will not be tolerated in any form. I will watch for it and if caught 
you will receive a zero for that test or assignment. Don’t forget that plagiarism is cheating. If you use 
information from a particular source that is not common knowledge you must cite that source.

Reading: you are expected to read the chapter ahead of discussing it in class. You know by the syllabus 
what is coming up. Be prepared, you will be much more successful in class.
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


*If you buy a used manual, make sure it is not written in. You must bring empty, clean lab exercises to class.
*If you rent a lab manual you must print out each exercise and bring it to class.
## Course Outline/Calendar:

<table>
<thead>
<tr>
<th>Week beginning:</th>
<th>Lecture Topics</th>
<th>Lab Topics</th>
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<tbody>
<tr>
<td>Week 1 Jan 22</td>
<td>Ch. 1 Intro/Ch. 2 Minerals</td>
<td>Minerals</td>
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<tr>
<td>Week 2 Jan 27 &amp; 29</td>
<td>Ch. 2 Minerals/Ch. 3 Rocks</td>
<td>Minerals</td>
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<tr>
<td>Week 3 Feb 3 &amp; 5</td>
<td>Ch. 2 Minerals/Ch. 3 Rocks</td>
<td>Minerals</td>
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<td>Week 4 Feb 10 &amp; 12</td>
<td>Lec. Test 1 – Minerals/Rocks</td>
<td>Rocks</td>
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<td>Ch. 4 Plate Tectonics</td>
<td>Rocks</td>
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<tr>
<td>Week 5 Feb 17 &amp; 19</td>
<td>Ch. 4 Plate Tectonics</td>
<td>Rocks</td>
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<td>Ch. 5 Earthquakes</td>
<td>Rocks</td>
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<tr>
<td>Week 6 Feb 24 &amp; 26</td>
<td>Ch. 5 Earthquakes</td>
<td>Rock Test Feb 24&lt;sup&gt;th&lt;/sup&gt;.</td>
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<td>Ch. 6 Volcanoes</td>
<td>Ex: 3 Plate Tectonics</td>
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<td>Week 7 Mar 2 &amp; 4</td>
<td>Lec. Test 2 – Plate tectonics, Eqs, and Volcanoes</td>
<td>Ex: 3 Plate Tectonics</td>
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<td>Ch. 7 Crustal Deformation</td>
<td>Ex: 4 Earthquakes</td>
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<tr>
<td>Week 8 Mar 9 &amp; 11</td>
<td>Ch. 7 Crustal Deformation</td>
<td>Ex: 4 Earthquakes</td>
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<td>Ch. 11. Geologic Time</td>
<td>Ex: 7 Topographic Maps</td>
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<td>Week 9 Mar 16 &amp; 18</td>
<td>Spring Break</td>
<td>Spring Break</td>
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<td>Week 10 Mar 23 &amp; 25</td>
<td>Ch. 9 Oceans The Last Frontier</td>
<td>Ex: 7 Topographic Maps</td>
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<td>Ex: 11 Intro to Oceanography</td>
<td>Lab Practical</td>
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<td>Week 11 Mar 30 &amp; Apr 1</td>
<td>Test 3 over deformation, time and oceans last frontier.</td>
<td>Ex: 11 Intro to Oceanography</td>
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<td>Ch. 10 The Restless Oceans</td>
<td>Ex: 11 Intro to Oceanography</td>
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<td>Week 12</td>
<td>Apr 6 &amp; 8</td>
<td>Ch. 10 The Restless Oceans</td>
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<td>Ch. 11 Heating the Atmosphere</td>
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<td>Week 13</td>
<td>Apr 13 &amp; 15</td>
<td>Ch. 11 Heating the Atmosphere</td>
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<td>Ch. 12 Moisture, Clouds, and Precip</td>
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<tr>
<td>Week 14</td>
<td>Apr 20 &amp; 22</td>
<td>Ch. 12 Moisture, Clouds, and Precip</td>
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<td>Test 4 over oceans and meteorology</td>
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<td>Week 15</td>
<td>Apr 27 &amp; 29</td>
<td>Ch. 15 Nature of the Solar System</td>
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<td>Week 16</td>
<td>May 4 &amp; 6</td>
<td>Historical Astronomy</td>
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<td>Final May 11</td>
<td>10-11:50am</td>
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**Evaluation Procedures:** You will be evaluated by Exams, papers, quizzes, and labs

**Grading Scale:**
- Lecture exams = 40%
- Quizzes and/or papers, homework = 20%
- Lab = 4 lab practicals = 40%

- \( A = 100 - 90 \)
- \( B = 89 - 80 \)
- \( C = 79 - 70 \)
- \( D = 69 - 60 \)
- \( F = \geqslant 60 \)

**Make-ups** – Must have a college accepted reason, as per the college catalog.

**Late work** – I do not accept late work in lecture or lab.

**Extra Credit**
Extra credit is intended to be an incentive. There will not be enough to pull you up from a failing grade. Extra credit is given only on a class wide basis, there will be no individual extra credit.
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 Apr. 16th. Failure to do so will 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.