Earth Science Syllabus, GEOL 1401-25501  
Brookhaven College, Summer 2019

Contact Information  
Dr. Alexander Zekulin: Email: azekulin@dcccd.edu

Lecture: M-Th, 5:40 – 7:40 PM; Room K108  
Lab: Saturday, M-Th, 7:50 – 9:50 PM; Room K108

Required Materials:  

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.)

Learning Outcomes:  
GEOL 1401 Lecture learning outcomes. Upon successful completion of this course, students 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.

GEOL 1401 Lab learning outcomes. Upon successful completion of this course, students will:  
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.

Attendance Policy: Roll will be taken at every lecture and lab as part of the course’s requirement.

Exam/Quiz Policy: The purpose of the course schedule is to give you advance notice of required readings and exam dates. On the day of exam, no one may begin an exam after another student has finished and turned in his/her exam paper. Don’t be late. If you leave the room during an exam, you have finished the exam. Anyone suspected of cheating on an exam will receive a zero for the exam grade. Don’t cheat. No make-up lecture exams or quizzes are given.

IMPORTANT COLLEGE POLICIES AND PROCEDURES

INSTRUCTOR’S RIGHT TO MODIFY: The instructor has the right to add, delete, or revise segments of this course syllabus.
CATALOG 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

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

CAMPUS EMERGENCY OPERATION PLAN
Brookhaven College and the Dallas County Community College District have developed policies and procedures for dealing with emergencies that may occur on campus. To familiarize yourself with these procedures, please take time to watch the overview video: http://video.dcccd.edu/rtv/DO/emergency_dcccd.wmv. If you have questions or concerns, please contact the Brookhaven College Police. This office can be reached by phone (972/860-4290) or 911 from a college telephone.

FOOD and DRINK POLICY
Food, drinks, and tobacco products are prohibited in Brookhaven College classrooms. For additional, and important information on institutional policies pertaining to this course and your experience at Brookhaven College, click the link below. http://www.brookhavencollege.edu/employees/faculty/Documents/BCSyllabus_Addendum.pdf

Remember, communication is key to doing well in any course. If you have questions at any time, ask!

<table>
<thead>
<tr>
<th>GRADES</th>
<th>(You must pass Lab to pass the class)</th>
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<tbody>
<tr>
<td>LECTURE</td>
<td>65% of total grade</td>
</tr>
<tr>
<td>The lecture grade will consist of 5 graded timed exams (Submitted via eCampus, usually on weekends)</td>
<td>10 % of total grade each</td>
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<tr>
<td>Presentations on various relevant topics (Presented in class)</td>
<td>5 % of total grade each</td>
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<tr>
<td>Extra credit options may be offered for each exam unit.</td>
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<tr>
<td>LAB</td>
<td>35% of total grade</td>
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<tr>
<td>Lab Exercises (10 of 13, drop 3 lowest) (Submitted via eCampus)</td>
<td>2.5% of total grade each</td>
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<tr>
<td>Rock and Mineral Practical (Hands-on, in class)</td>
<td>10.0% of total grade</td>
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KEY DATES FOR SPRING SEMESTER 2018
First Day of this Course: Tuesday, June 6
Last day to drop with "W": TBD

Final Exam: Friday, July 3

INCLEMENT WEATHER 972-860-4700

Geology 1401 Course Outline
Section 1: Astronomy - Chapters 15,16
Section 2: Rocks and Minerals - Chapters 1,2
Section 3: Geosciences, Chapters 5,6,7
Section 4: Atmospheric Science - Chapters 11,12,13,14
Section 5: Rivers, Groundwater, Oceanography & Geologic Time, Chapters 3,4,8,9,10