Eastfield College  
STEM Division  
Spring 2019  
Geol 1401 43501  4 Hours  
Lecture: C331 TTH 7:05-8:25 PM  Lab: C321 TTH 5:35-6:55 PM

Instructor: Barry Dorociak  
Contact Information: 
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Phone: (972) 391-1047  
Email address: BarryDorociak@dccc.edu  
Hours Available: By appt.

Course Description

Geology 1401 Earth Science (4) This is a Texas common course number. 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., 1 Lab.)

Course Prerequisites:

Developmental Reading 0093 or English as a Second Language (ESOL) 0044 or have met the Texas Success Initiative (TSI) standard in Reading.

Textbooks and Other Course Materials:

Foundations of Earth Science 8th Lutgens/Tarbuck/Tasa Pearson ISBN # 9780134184814 Recommended  
Applications and Investigation in Earth Science 9th Tarbuck/Lutgens/Tasa Pearson ISBN. 9780134746241 Required

Developmental Courses

The Texas Success Initiative (TSI) is a statewide program designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college-level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student’s basic academic skills in reading, writing, and math. Passing the assessment is a prerequisite for enrollment in many college-level classes such as English 1301/1302, History 1301/1302, Math 1414, etc. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher. In some cases retesting will also be required. It is up to each student to be aware and informed about requirements that are subject to change. Additional information is available from the TSI Office. https://www1.dcccd.edu/cat0910/admiss/tsi.cfm?loc=4

Course Objectives:

As a result of taking this course students will identify and describe a basic set of mineral and rock samples, understand basic internal processes of the earth, including the layers, earthquakes, volcanoes, and plate movements, look at landscapes with new eyes and new understanding, understand the layers and characteristics of the atmosphere, be able to read and interpret basic weather reports, know the characteristics of the solar system, including the sun and planets, learn basic theories about the universe beyond the solar system, ask questions about the earth that they have never considered, and critically evaluate scientific evidence and conclusions in the media and in decisions that control their daily lives.
Educational Objectives:

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.

To meet these objectives, students are expected to read their textbook and respond to the reading by completing tests of the information they have learned (Reading). They have writing assignments (Writing) and various field exercises, which test their critical thinking (Critical Thinking). Students use the computer for website information and for word processing (Computer Literacy). During field trips and recitations the information is presented in sessions in which the students hear ideas and discussion questions and are expected to participate and contribute (listening).

Student Learning Outcomes (Lecture)
Upon successful completion of this course, students will:
- Explain the current theories concerning the origin of the Universe and of the Solar System.
- Explain the place of Earth in the Solar System and its relationships with other objects in the Solar System.
- Relate the origin and evolution of Earth’s internal structures to its resulting geologic systems, including Earth materials and plate tectonic activities.
- Explain the operation of Earth’s geologic systems and the interactions among the atmosphere, the geosphere, and the hydrosphere, including meteorology and oceanography.
- Explain the history of the Earth including the evolution of earth systems and life forms.

Learning Outcomes (Lab)
Upon successful completion of this course, students will:
- Classify rocks and minerals based on chemical composition, physical properties, and origin.
- Apply knowledge of topographic maps, diagrams, and/or photographs to identify landforms and explain the processes that created them.
- 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.
- Apply relative and numerical age-dating techniques to construct geologic histories.
- Measure atmospheric processes that affect weather and climate.
- Describe the composition and motion of ocean water and analyze the factors controlling both.
- Compare properties and motions of objects in the solar system.
- Demonstrate the collection, analysis, and reporting of data.

Obtaining Final Course Grades Using eConnect
Final Grade Reports are no longer mailed. Convenient access is available online at www.econnect.dcccd.edu. Use your identification number when you log onto eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Student Advising Report, which is available in the Admissions Office.
Eastfield College Email Policy
Faculty and students must have and use a DCCCD account for all correspondence relating to academic coursework. For information on setting up a DCCCD student email account go to:
http://www.dcccd.edu/netmail/home.html

Evaluation Procedures:

ASSIGNMENTS: 5 Lecture Tests, 1 group project (80%) Lab assignments (20%) The group project will be a core objective assessment. Lab groups will collaborate on a data analysis project and present a report.

WRITING EXPECTATIONS: (optional—for extra credit) A written essay comparing and contrasting two types of volcanoes: Mt St Helens and Hawaiian in terms of eruption history, eruption type, and cause of volcanism. (3-5 pages)

EVALUATION: Grade is based on a point system. All tests, labs, projects, and final are 100 points each, essay is 100 points.

COURSE GRADE: 5 lecture tests/essay are 80 %, lab is 20 %.
Tests are 100 multiple choice questions coming from lecture notes and textbook.
A =90-100, B =80-89, C =70-79, D =65-70, F = below 65, W = Withdrawn, I = Incomplete.

TEST REVIEW MATERIAL: A review sheet will be provided for each test and final.

LAB GRADE: Students are expected to turn in labs on time and are due at the end of class. If student is absent, no make-up.
Grade will be a 0. Labs will be done in blue or black ink only. No pencil will be accepted.

Course Outline:

DATES FOR ASSIGNMENTS:

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<th>Lecture</th>
<th>Lab</th>
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<td>Minerals--Chapter 1</td>
<td>Lab 1 Mineral Properties</td>
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<td>Minerals--Chapter 1</td>
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<td>Metamorphic Rocks--Chapter 2</td>
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<td>Test 1 Minerals and Rocks</td>
<td>Lab Practical—Minerals/Rocks &amp; Group Project</td>
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<td>Lab 19 Patterns of the Solar System</td>
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<td>2/14</td>
<td>The Solar System—Chapter 15</td>
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<td>Geologic Structures—Chapter 6</td>
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<td>Lab 13 Earth-Sun Relations</td>
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<td>Clouds and Precipitation—Chapter 12</td>
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<td>Lab 16 Air Masses, Cyclones</td>
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<tr>
<td>5/9</td>
<td>Severe Weather—Chapter 14</td>
<td>Lab 16 Air Masses, Cyclones</td>
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Attendance Policy:

Students are expected to attend all classes and laboratory meetings and are to be on time and stay until class is dismissed. Students should consult with the instructor when an unavoidable absence due to emergency or illness occurs.

Financial Aid

Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

Financial Aid Statement for Distance Learning Classes

If you are receiving Financial Aid grants or loans and are enrolled in a Distance Learning class, you must show participation in this class prior to the certification date 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 failing grades may require that you repay financial aid funds.

Repeating This Course: (Third Attempt to Enroll in a Course)

Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or 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 of the Dallas County Community Colleges since the Fall 2002 Semester. See Third Attempt to Enroll in a Course at: http://www.dcccd.edu/thirdcourseattempt/

Academic Honesty Statement

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 DCCCD Code of Student Conduct published in the DCCCD Catalog at http://www1.dcccd.edu/cat0506/ss/code.cfm

Academic dishonesty includes, but is not limited to, cheating on tests, plagiarism and collusion. Cheating includes copying from another student's test or homework paper, using materials not authorized, collaborating with or seeking aid from another student during a test, knowingly using, buying, selling, stealing, or soliciting the contents of an unadministered test, and substituting for another person to take a test. Plagiarism is the appropriating, buying, receiving as a gift, or obtaining by any means another's work and the unacknowledged submission or incorporation of it in one's own written work. Collusion is the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements. Academic dishonesty is a serious offense in college. You can be given a failing grade on an assignment or test, can be failed for the class, or you can even be suspended from college.

Violation of academic honesty will result in a referral to the dean.
Food and Drink Policy
Food, drinks, and tobacco products are prohibited in Eastfield College classrooms.

ADA Statement
Students with a physical, mental or learning disability who require accommodations should contact the college Disability Services Office in C237. Call 972.860.8348 or email efcdso@dcccd.edu. For more information: http://www.eastfieldcollege.edu/SSI/DSO/index.html

Religious Holidays
Absences for observance of a religious holy day are excused. Notification of the absence must be given to the instructor in writing at least two weeks prior to the date of the holy day. A student whose absence is excused to observe a religious holy day is allowed to contract with the instructor to take a make-up examination or complete an assignment within at a mutually agreed upon time after the absence.

Withdrawal Policy
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 April 17th 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 more information about drop deadlines, refer to the current printed Credit Class Schedule, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C119), or contact the division office.

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

Family Educational Rights and Privacy Act of 1974 (FERPA)
In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of student and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.
Students are expected to attend all class meetings and are to be on time and stay until class is dismissed. No food/drink in the classroom. No cell phones, PDAs, laptops, or headphones. Please keep talking to a minimum. A student who repeatedly disrupts will be asked to leave the classroom and will be reported to the dean.

Children on Campus
The institution strives to protect an environment most conducive to teaching and learning for all enrolled students. Children who are taking part in organized scheduled activities or who are enrolled in specific classes are welcomed. Minor children, however, should not be brought to the institution unless closely supervised by their parent. Minor children should not be brought into classrooms, laboratories or other facilities of the college. This practice is disruptive to the learning process. In the case of an emergency where the student-parent has no alternative but to bring the child to campus, classroom faculty or the administrative heads of other units have full discretion as to whether a child may be allowed to quietly stay in the location. These individuals may require that children be removed by the student-parent from the setting if, in their opinion, the presence of the child is deemed to be disruptive to the learning process. For reasons of security and child welfare the institution will not permit unattended children to be left anywhere on the premises. Parents who have problems with childcare should visit the Counseling and/or Advisement Center to receive referrals to childcare services in the area.

A Note on Harassment, Discrimination and Sexual Misconduct
We are committed to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX and DCCCD policy prohibit harassment, discrimination and sexual misconduct.

If you encounter harassment, sexual misconduct (sexual harassment, sexual assault, stalking, relationship violence) or retaliation or discrimination based on race, color, religion, age, national origin, disability, sex, sexual orientation, gender identity and/or gender expression, please contact your college Title IX coordinator or the Office of Institutional Equity. We treat this information with the greatest degree of confidentiality possible while also ensuring student welfare and college safety. We are concerned about the well-being and development of our students and are available to discuss any concerns. There are both confidential and nonconfidential resources and reporting options available to you. If you wish to keep the information confidential, please contact college Counseling or student Health Services.

As required by DCCCD policy, incidents of discrimination and/or sexual misconduct shared with faculty will be reported to the college Title IX coordinator or district Title IX coordinator. The Title IX coordinator will contact you and determine if further investigation is needed. For more information about policies, resources or reporting options, please contact your college Title IX coordinator or visit dcccd.edu/TitleIX.

The instructor reserves the right to amend this syllabus as necessary.