Course Syllabus
EARTH SCIENCE
Course Information:
Section: GEOL 1401-23003 and 23004
4 Credit Hours
Lecture Meeting Days: T-R
Lecture Meeting Times: 10:30 – 11:50 am
Lab Meeting Days: T-R
Lab Meeting Times: 9:00 – 10:20 am (23003)
Lecture Location: H104
Lab Location: K108

Instructor: Gary Jones
Office: K118
Office hours: before or after class
Telephone: 972-860-4750
E-mail: GJones@dcccd.edu

Course Prerequisites:
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.

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
Student Learning Outcomes:
Upon successful completion of this course, you will be able to:
1. Demonstrate an understanding of earth, atmospheric and space systems.
2. Analyze various social and ecological impacts of natural and man-made hazards on environmental systems.
3. Teach friends and family to examine controversial scientific issues or to explain scientific phenomena using factual and literate methods.
4. Use appropriate techniques in the laboratory or field, collect and analyze meaningful data, and present clearly written laboratory results.
5. Use a variety of specimens and instruments in collecting laboratory or field data.

Textbook and Materials:
You are required to have:
Lecture/Lab Topics:

LECTURE
Week 1 Introduction/Ch. 1: Matter and Minerals
Week 2 Ch. 2: Rocks: Materials of the Solid Earth
Week 3 Ch. 5: Plate Tectonics: A Scientific Method Unfolds
Week 4 TEST 1/ Ch.9: Oceans: The Last Frontier
Week 5 Ch. 10 The Restless Ocean
Week 6 TEST 2/Ch. 11: Heating the Atmosphere
Week 7 Ch.12:Moisture, Clouds and Precipitation
Week 8 Ch. 13: The Atmosphere in Motion
Week 9 Ch. 14: Weather Patterns and Severe Weather
Week 10 TEST 3/Ch. 15: The Nature of the Solar System
Week 11 Ch. 16: Beyond Our Solar System
Week 12 TEST 4/ Ch. 8: Landscapes Formed by Water
Week 13 Ch. 7: Volcanoes and Other Igneous Activity
Week 14 Ch. 6: Restless Earth: Earthquakes, Geologic Structures, and Mountain Building
Week 15 Final Review
Week 16 TEST 5/ Lecture Final

LAB
Week 1 Ex. 1 The Study of Minerals
Week 2 Ex. 2 Rocks and the Rock Cycle/Rock Cycle Exercise
Week 3 Ex. 7 Plate Tectonics
Week 4 Ex. 10 Introduction to Oceanography/Mineral Test
Week 5 Ex. 11 Waves, Currents, and Tides
Week 6 Ex. 14 Heating the Atmosphere
Week 7 Ex.15 Atmospheric Moisture, Pressure, and Wind/Rock Test
Week 8 Ex. 16 Air Masses, Midlatitude Cyclones and Weather Maps
SPRING BREAK
Week 9 Microclimates
Week 10 Ex. 18 Astronomical Observations
Week 11 Ex. 19 Patterns in the Solar System
Week 12 Ex. 21 Examining the Terrestrial Planets
Week 13 Ex. 6 Earthquakes and the Earth's Interior
Week 14 Ex. 3 Aerial Photographs, Satellite Images, and Topographic Maps
Week 15 Lab Final

Evaluation Procedures
The lecture is worth 75% of your grade. There will be 5 tests. The first four tests worth 100 points each. The final is comprehensive. The final is worth 137.5 points. The field trip is 100 points. There will be 1 presentation worth 300 points. The lab is worth 25% with the following break down: Microclimate lab 125 points, Weekly labs 125 points, and lab tests 62.5 points. The lecture tests will be taken in the Testing Center. The lab grade will count 25% of the total course grade. A student who fails the lab portion will not pass the course. There are no make-up labs. There is 1 lab due each week.

Grading Scale
1125 – 1250 = A
1000 – 1124 = B
875 – 999 = C
Attendance/Participation Policy
You are expected to attend all scheduled lectures and labs. In all cases, it will be the student’s responsibility to withdraw from the course, if necessary. In other words, if you stop attending class and do not withdraw from the course, your final grade will be determined as described in the previous section on Grading, with zeroes counted for tests and labs missed. There are no excused absences. If you miss a class, you should make arrangements with a classmate to get notes and assignments.

INSTITUTIONAL POLICIES:
http://www.brookhavencollege.edu/employees/faculty/Documents/BCSyllabus_Addendum.pdf
FINALLY... The instructor reserves the right to modify the course requirements, grading procedures and other related policies as circumstances dictate.

All students in this course are expected to abide by the rules and regulations as set forth in both the DCCCD Student Code of Conduct and the DCCCD Rules for Responsible Computing. Failure to comply may result in legal and/or disciplinary action.