

Earth Science

Elective – Year – /11/12

Prerequisites: None

Course Description

Earth science is a two-semester course that, in light of God's Word, takes students through four basic areas of study: geology, oceanography, astronomy and meteorology.

Course Goal

As God's Word permeates the instruction of this course, the teacher will instruct students in the objectives of this course and impart to his students a Christian perspective on Earth Science.

Course Objectives

Through textbook instruction, laboratory activities, and hands-on observation, students will be able to:

1. express a greater appreciation of nature as God created it
2. know the vocabulary and methods associated with the four general areas of Earth Science
3. better understand the changes that occur to the earth's crust, atmosphere, and oceans
4. appreciate the vastness of our universe and learn the order in our heavenly bodies
5. teach others the explanations behind many of the occurrences that we see in God's creation every day

Course Outline

1. August -October --Units One & Six-Earth Science-Geologic time (Ch 1-2,21-23)
2. October -- Unit Seven Resources and the Environment (Ch 24-26)
3. November - Unit Two Composition of Earth (Ch 3-6)
4. December-January --Unit Three-Surface Processes (Ch 7-10)
5. February -March --Unit Five-Dynamic Earth (Ch 17-20)
6. March -April --Unit Four-Atmospheric Science (Ch 11-16)
7. April -May 15 --Unit Eight-Astronomy (Ch 27-30) (Astronomy Night TBD)

Instructional Strategies

Students can expect a variety of teaching methods throughout the year. Usually a chapter will begin (in the first day or two) with lecture and taking notes. The next few days of a chapter will normally include one or more of several methods that could include the following (listed in order of most used to least used): question and answering, answer sharing on the white board, laboratory activity, cooperative learning, demonstration and observation, group presentations, competition, etc. Please let me know if you would like me to use a specific strategy. I will try to be flexible if it is to the benefit of the whole class.

Grading

1. Grades will be accomplished through daily work, "pop" quizzes, tests, projects/papers, labs, and semester tests.
2. A point is a point is a point. No weighting is given to daily work, tests, quizzes or labs. The amount of points assigned is the indication as to how much it is worth.
3. Bonus points will be offered on most tests and offered for special projects throughout the year.
4. Students can expect at least one quiz a week along with usually one laboratory report. A test on a chapter will occur about every 1 ½ - 2 weeks. Two semester tests will be given and each will account for approximately 15% of your semester grades.

The grading scale is posted on the classroom wall.

Student Materials

1. Three-ring binder with loose-leaf paper or notebook with folder
2. Calculator (only needed on days when I request it of you)
3. The textbook-“*Earth Science-Geology, the Environment, and the Universe*” -Glencoe 2008
4. Colored pencils on some days
5. Chromebooks

Classroom Procedures

1. Complete in-class (tests, quizzes) and outside-of-class (reports, papers, essays, readings, etc.) assignments to the best of your God-given ability.
2. **Read the chapters and do the daily exercises (most of the time I will give time in class to complete a good portion of the assignment)**
3. Students should present themselves as redeemed children of God inside and outside of the classroom respecting both the teacher and their fellow classmates.
4. Cell phones should only be used when permission is granted.
5. Cell phones and chromebooks should not be used for gaming during class time
6. Participate in all classroom activities.
7. Respect all classroom equipment and property, especially in lab situations. Failure to do so may result in fines.
8. Make up missing assignments or tests after absences in a timely fashion (missing 1 day—one day to make up work)