

SC2430/ Earth Science Syllabus

Course Title----- Earth Science
Course Number----- SC2430
Grades:----- 09-11
High School Credit Value:----- 0.5
Prerequisites:----- None.

Course Length:----- Regular courses: 17 weeks
CR: 9-17 weeks.

Course Time:----- Regular courses: 17 week schedule: 75 - 90
minutes per school day (6-7.5 hours per
week)
Credit Retrieval: 75 - 90 minutes per
school day (6-7.5 hours per week) until
course completion.

{ Course Description }

Earth Science is the study of our dynamic and fascinating planet. In this class you will study how the different components of the Earth system work together to create a unique and complex world. Learn how water, land, life, weather, geologic forces, atmosphere, and space all contribute to the beauty and individuality of planet Earth

Course Materials:

Technical requirements - ability to download and install Flash or other free software used in interactive course lessons. Strongly suggest a headset with a microphone.

State Alignments

Washington State Standards guided the design of the course. Learning expectations are found within the course itself.

The following standards will be reflected in this course.

1. In complex systems, entirely new and unpredictable properties may emerge. Consequently, modeling a complex system in sufficient detail to make reliable predictions may not be possible.
2. Investigate: Scientific progress requires the use of various methods appropriate to answering different kinds of research questions, a thoughtful plan for gathering data needed to answer the question, and care in collecting, analyzing and displaying the data.
3. Conclusions must be logical, based on evidence, and consistent with prior established knowledge.
4. It is important for all citizens to apply science and technology to critical issues that influence

society.

5. Energy in the Earth System: Earth systems have internal and external sources of energy, both of which create heat.(Meteorology)
6. Energy in the Earth System: Earth systems have internal and external sources of energy, both of which create heat.(Plate Tectonics)
7. Geochemical Cycles: The earth is a system containing essentially a fixed amount of each stable chemical atom or element.
8. Evolution of the Earth System: The sun, earth and the rest of the solar system formed from a nebular cloud of dust and gas 4.6 billion years ago. (Geologic History)
9. The Earth System: As we look at Earth, we find clues to its origin and how it has changed through nearly five billion years, as well as the evolution of life on Earth.
10. Origin of the Universe: The origin of the universe remains one of the greatest questions in science. Scientific discoveries led us to now infer an origin and an age and evolution of the universe, as we speculate about its future.

Course Outline

17 Week Session

Unit 1 Physical Geography, 3 weeks
Unit 2 Rocks and Minerals, 3.5 weeks
Unit 3 Landforms, 3.5 weeks
Unit 4 Hydrology, 3 weeks
Unit 5 Climatology, 3 weeks
Semester Final, 1 week

Course Work

Students are expected to put in 6-8 hours per week to complete their lessons. Teacher may return assignments and ask student to make modifications if it does not meet minimum standards. Assignments include formative assessments, summative assessments, research essays, and a semester final.

Assignments are submitted online, with rare exception. Students may contact their teacher through email, by phone, in live chat session, or during live online study sessions. Weekly academic contact is required for students to be successful in this class.

Units and lessons should always be done in the order presented on the Learning Plan Contract. Tests can be taken twice, and many are timed. Students should study all unit instruction and lessons prior to taking tests to prepare themselves.

Grading

This is not a correspondence course. Students are expected to maintain weekly contact with the teacher for the purpose of teaching and learning. Turning in work in bulk does not allow for this

critical interaction, nor for lesson revision and **will result in a lower grade.**

Lesson assignments will be graded using the following criteria:

- **Proper spelling and grammar should be used at all times.**
- **Lab write-ups should follow standard format provided in the course.**
- **All lesson answers should be paraphrased from the information in the sources. Copying and pasting from sources will not be tolerated and will result in a zero for the assignment. Students must write answers in their own words.**

Projects will be graded using the following criteria:

- **All prescribed formats will be followed.**
- **Bibliographic citation of all web resources must accompany the project, including the URL, name of the web site, and author or editor if available.**
- **Copying or plagiarism will not be tolerated. Plagiarism may result in no credit given for the lesson or project.**

Occupational Credit:

This course may qualify for *occupational credit. Please consult your school counselor for further clarification.

***Please note that FLA901 (Sign Language) does not qualify for occupational credit.**

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