

GLENDALE UNIFIED SCHOOL DISTRICT

Senior High School

March 1, 2005

Department: Science

Course Title: Earth and Space Science

Course Number:

Grade Levels: 9-12

Semester Hours: 10 (2 semesters)

Prerequisite: None

Core Text: Earth Science, Spaulding, Nancy E. and Namowitz, Samuel N. 2005, McDougal Littell. Student Edition, ISBN#0-618-49938-5. Teacher's Edition, ISBN #0-618-49939-3

Earth Science Laboratory Manual, Spaulding, Nancy E. and Namowitz, Samuel N. 2005, McDougal Littell

Supplemental Materials: California Geology, Harden, Deborah. 2003, Prentice Hall
One Hundred Topographic Maps, Debruin, Richard. 1973, Hubbard Scientific
Nightwatch: A Practical Guide to Viewing the Universe, Dickinson, Terence. 1998, Firefly Books
"Earth Science Visualizations", 2005, McDougal Littell. Power Point and overhead projections

Course Description: Earth and Space Science is a lab science course, based upon the California State Earth Science Standards. The major strands are Earth's Place in the Universe, Dynamic Earth Processes, Energy in the Earth System, Biogeochemical Cycles, Structure and Composition of the Atmosphere, California Geology, with the Investigation and Experimentation strand integrated throughout the curriculum.

The Course Outline that follows is presented two ways:

- I. Sorted by Standards (pages 1-12)
 - Column 1 identifies the standard
 - Column 2 identifies what the student will know and be able to do to demonstrate an understand of this standard. When Labs are linked to standards, the Investigation and

Experimentation standard(s) addressed within the Lab are included in this column (identified as I&E with the standard's letter in parentheses).

- Column 3 lists the materials from the adopted core text.
- Column 4 identifies assessment objectives that may be utilized by the teacher.

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- II. Sorted by Materials: Semester 1: Pages 1-5 Semester 2: Pages 1-7
- Show only the standards addressed in a given chapter, with the suggested number of days per chapter listed in the top row of each chapter. Italic standards are those that are repeated during the semester. Red indicates Labs and blue shows standards that are only directly addressed one time in the adopted materials.

It is suggested that instructors omit Chapters 11, 12, 15, 16, 29, and 30 from the Earth Science textbook since these chapters do not directly address the Earth Science Standards, and omit all but the labs (noted in correlation) from Chapters 5, 18, and 23.

The order of teaching the units is only a suggestion. It is recognized that some instructors prefer to teach the Earth's Place in the Universe/Astronomy units first while other prefer to start with the Earth Processes or Energy strands first. While the order of teaching the strands can vary, all of the strands need to be taught in a Standards-based course. The Investigation and Experimentation strand must be infused throughout the course and each unit should include hands-on activities and lab work.