EART 110 - Earth Science Course Outline

Approval Date: 06/12/2015
Effective Date: 01/15/2016

SECTION A

Unique ID Number CCC000250821
Discipline(s) Earth Science
Division Science and Engineering
Subject Area Earth Science

    a. Plate Tectonics
    b. Geologic Structures
    c. Mountain Building
    d. Earthquakes
    e. Volcanoes
C. Earth's Materials
    a. Minerals
    b. Igneous, Sedimentary and Metamorphic Rocks
    c. Soils
D. Earth History
    a. Geologic Time
    b. Relative and Absolute dating
    c. Fossils and Fossilization
E. Earth's External Processes
    a. Surface Water and Groundwater
    b. Glaciers
    c. Deserts
F. Oceanography
    a.

Lab: Demonstrations and assigned student activities.
Lecture: Lecture covering assigned chapters.

5. Methods of Evaluation: Describe the general types of evaluations for this course and provide at least two, specific examples.

Typical classroom assessment techniques

Exams/Tests --
Quizzes --
Research Projects --
Field Trips --
Home Work --
Lab Activities --
Final Exam --

Additional assessment information:

Lecture Exams: Three plus a comprehensive Final Exam. Lecture examinations will consist of objective questions in a variety of formats including short answer, multiple choice and essay questions. Typical topics will include the Rock Cycle, the Theory of Plate Tectonics and the age of the Earth.

There will be 3 Lab Practical Exams: Lab Practical Exams involve identifying rocks and minerals and the demonstration of basic laboratory methods.

Occasional lecture and lab quizzes: Quizzes are short examinations covering both lecture material and current laboratory exercises.

Formal written lab reports: Students will keep an organized lab notebook of their observations of the exercises performed in the laboratory.

One or more field trips will be assigned. Field trip location examples would be Pt. Reyes and Mt. Diablo.

Homework Assignments: These assignments include the solving of specific gravity problems and questions about Mohs scale of hardness.

Research Project: These are semester long projects and include such topics as the history of earthquakes in southern California or the origin of volcanism in the central Sierra.

Letter Grade or P/NP

6. Assignments: State the general types of assignments for this course under the following

reports would analyze stream deposits and compare and contrast the topographic expressions of different classes of volcanoes.

C. Other Assignments
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7. Required Materials

A. EXAMPLES of typical college-level textbooks (for degree-applicable courses) or other print materials.

Book #1:

Author:	Tarbuck, E.J. and Lutgens, F.K.
Title:	Earth Science
Publisher:	Pearson
Date of Publication:	2014
Edition:	14th

Manual #1:

Author:	Tarbuck, E.J. and Lutgens, F.K.
Title:	Applications and Investigations in Earth Science
Publisher:	Pearson
Date of Publication:	03-01-2014

B. Other required materials/supplies.