

General Education Course Proposal

Proposed Course: Geol 112 PLANET EARTH THROUGH TIME Units 3
Prefix No. Title

Department: Geology School: Natural Sciences

GE Category (Indicate one category only):

Foundation: A1___; A2___; A3___; B4___
Breadth: B1___; B2___; C1___; C2___; D___; E___
Integration: B_x; C___; D___; International/Multicultural___

Existing Course___; Revised Course_x; New Course___

Course Included in Current GE Program_x

New courses require the Undergraduate Course Proposal form in addition to this form.

Revised courses require the Undergraduate Course Change Request in addition to this form.

Proposed catalog description: Limit course description to 40 words using succinct phrases. Include prerequisites, limitations, lecture/lab hours. Indicate former course number, e.g., (Former Biol 105)

Prerequisite: General Education Area B1, B2, B4. Principles of Geology used in the interpretation of the history of the Earth as revealed in rocks and their fossils. Includes: origin of the solar system, evolution of atmosphere and oceans, origin of life, rise and fall of the dinosaurs, plate tectonics, and ice ages. General Education Integration, Area B. (3 lecture hours) (Former Geol. 2)

Enrollment limit per section: 50

Expected number of sections per semester - Year 1 1; Year 3 1

Attachments:

1. A statement presenting the ways in which this course meets the Specifications provided in the appropriate section of the General Education Policy as well as in the Policies for Inclusion and Evaluation of General Education Courses.
2. A statement of elements common to all sections of this course, identifying content, objectives, required student activities, grading policy, representative texts, and an approximate schedule for the course. Required student activities include such things as papers, research projects, homework, laboratory and/or studio performance, recitations, participation, attendance, and exams.
3. A typical syllabus for a particular offering of the course.
4. Any special cost factors associated with this course.

Approval for Inclusion in General Education

Glenn M. Mammes 4/24/98
Department Chair Date

Glenn M. Mammes 9/21/98
School Curriculum Committee Date

Stanley M. Zuph 9/22/98
School Dean Date

Robert A. ... 12/15/98
General Education Subcommittee Date

Brandt Kehoe 12/22/98
Associate Provost Date

Exams will cover material discussed in lecture and in reading assignments. They will include a mix of objective questions (mostly multiple choice), fill-in-the-blanks, and possibly some short-answer questions. The emphasis will be on your understanding of concepts, principles, and relationships, as well as the events of geologic history. The review questions and lists of important terms at the end of each chapter in the text should be useful in preparing for exams, and I will hand out review sheets prior to each exam as well.

Exam grades will be assigned using the following percentage scale:

100%	to	88%	= A
87.9%	to	76%	= B
75.9%	to	58%	= C
57.9%	to	46%	= D
Less than		46%	= F

Term paper: An original term paper on an approved topic will comprise 20% of your final course grade. The minimum paper length is 4000 words (a requirement for upper division general education courses). The paper should be written with a word processing program on a computer.

Cheating and Plagiarism: Each student is expected to perform his or her own work throughout the course. Cheating and plagiarism will not be tolerated and will be dealt with according to university policy. Please refer to the CSU Fresno catalog for further information.

Disabled Students: It is the responsibility of students with disabilities to identify themselves to the university and the instructor so reasonable accommodation for learning and evaluation within the course can be made.

	Lecture Topics	Text Chapter
Week 1 (1/27- 1/31)	Introduction The Earth in Change Geologic Principles (uniformitarianism) Earth Structure and Seismic Waves	1, p. 1 - 5 1, p. 6 - 16 5, p. 157 - 167
Week 2 (2/3- 2/7)	Continents Adrift, Continents Aground Plate Tectonics: The New Revolution The Dynamic Earth	5, p. 172 - 180 5, p. 180 - 206
Week 3 (2/10-2/14)	Mountain Building Igneous Rocks: Origin , Composition, and Occurrence.	2, p. 46 - 50
Week 4 (2/17-2/21)	Volcanic Eruptive Styles and Processes Volcanic Landforms The Mediterranean Sea was a Desert Once	2, p. 51 - 53

Week 5 (2/24-2/28)	Sedimentary Archives: Depicting the Past REVIEW EXAM 1	2, p. 53 - 57
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Week 6 (3/3-3/7)	Depositional Environments Deformation of Rocks Faults and Folds	3, p. 65 - 87 5, p. 168 - 172
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Week 7 (3/10-3/14)	Earthquakes and Rates of Movement Concept of Geologic Time & Dating Techniques	1, p. 16 - 35
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Week 8 (3/17-3/21)	Stratigraphy & Sea Level Change The Fossil Record: Preservation and Bias	3, p. 91 - 95 4, p. 113 - 120 p. 134 - 148
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SPRING BREAK

Week 9 (3/31-4/4)	Organic Evolution: Mechanism and Historical Development	4, p. 120 - 125
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Week 10 (4/7-4/11)	Origin of the Earth REVIEW EXAM 2	6, p. 211 - 219
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Week 11 (4/14-4/18)	The Primordial Earth: The Archeon Eon Archeon Life The Proterozoic Eon	6, p. 219 - 222 6, p. 234 - 242 7, p. 247 - 248 & p. 261 - 270
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Week 12 (4/21-4/25)	The PreCambrian/Cambrian Boundary Geology of the Paleozoic Era Paleozoic Life	8, p. 273 - 274 9, p. 339 - 341 10, p. 345 - 388
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Week 13 (4/28-5/2)	Geology of the Mesozoic Era Mesozoic Life	11, p. 391 - 392 12, p. 427 - 467
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Week 14 (5/5- 5/9)	Dinosaurs: Ruling Reptiles Cretaceous Mass Extinctions Geology of the Cenozoic Era	" " 13, p. 471 - 473
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Week 15 (5/12-5/16)	Cenozoic climatic changes Rise of the Mammals The Future: Oasis in Space? REVIEW EXAM 3	13, p. 498 - 508 14, p. 515 - 546
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