

NEW COURSE PROPOSAL**Courses must be submitted by November 9, 2007, to make the next catalog production**DATE (*Change if modified*)

DECEMBER 5, 2007

PROGRAM AREA(S)

GEOLOGY

1. Catalog Description of the Course. *[Follow accepted catalog format.]***Prefix(es)** (Add additional prefixes if cross-listed) **GEOL Course No. 310****Title: CALIFORNIA GEOLOGY Units: 3**☒ Prerequisites GEOL 121, GEOL 122☐ Corequisites☐ Consent of Instructor Required for Enrollment**Description** (Do not use any symbols): **Focuses on California's geologic history, provinces, and resources and will feature field trips to a number of the provinces.****Grading Scheme:**☒ A-F Grades☐ Credit/No Credit☐ Optional (Student Choice)**Repeatability:**☐ Repeatable for a maximum of
units☐ Total Completions Allowed☐ Multiple Enrollment in Same Semester**Lab Fee Required:** ☐**Mode of Instruction/Components** (*Hours per Unit are defaulted.*).

	Units	Hours per Unit	Benchmark Enrollment	Graded Component	CS & HEGIS # (Filled in by the Dean)
Lecture	3	1	24	☒	
Seminar		1		☐	
Laboratory		3		☐	
Activity		2		☐	
Field Studies				☐	
Indep Study				☐	
Other Blank				☐	

The following two lines will be filled out internally based on the Mode of Instruction data directly above.

Three hours lecture per week (*Use 2nd line only if necessary*)

hours blank per week

Course Attributes:☐ **General Education Categories:** All courses with GE categories notations (including deletions) must be processed at the GE website: <http://summit.csuci.edu/geapproval>. Upon completion, the GE Committee will forward your documents to the Curriculum Committee for further processing.**A (English Language, Communication, Critical Thinking)**A-1 Oral Communication ☐A-2 English Writing ☐A-3 Critical Thinking ☐**B (Mathematics, Sciences & Technology)**B-1 Physical Sciences ☐B-2 Life Sciences – Biology ☐B-3 Mathematics – Mathematics and Applications ☐B-4 Computers and Information Technology ☐**C (Fine Arts, Literature, Languages & Cultures)**C-1 Art ☐C-2 Literature Courses ☐C-3a Language ☐C-3b Multicultural ☐**D (Social Perspectives)** ☐**E (Human Psychological and Physiological Perspectives)** ☐

UDIGE/INTD Interdisciplinary
Meets University Writing Requirement
Meets University Language Requirement

☐
☐
☐

☐ American Institutions, Title V Section 40404: ☐ Government ☐ US Constitution ☐ US History
Refer to website, Exec Order 405, for more information: <http://senate.csuci.edu/comm/curriculum/resources.htm>
☐ Service Learning Course

3. Justification and Requirements for the Course. (Make a brief statement to justify the need for the course)

A. Justification: The course is designed to serve that need for five upper division student populations: A) ESRM and other science majors who need to anticipate the distribution of earth materials and geologic hazards in California. B) ESRM and other science majors who are training for professions that involve geologic tours in national and state parks. C) Majors such as anthropology and history who wish to learn the geologic backdrop against which their events have occurred. D) Earth science teachers who wish to offer classroom and field exposure to California geology to their students. E) Working geologists who need to fulfill course requirements toward state certification as a Professional Geologist (PG). All environmental and engineering geologic studies in California must be supervised and signed by a PG. Geologists who practice in the Ventura County area have requested that CSUCI offer the course.

B. Degree Requirement: ☐ Requirement for the Major/Minor
☒ Elective for the Major/Minor

Note: Submit Program Modification if this course changes your program.

4. Learning Objectives. (Bullets, will occur upon carriage return)

Upon completion of the course, the student will be able to:

- Describe California's 11 geologic provinces, including their particular histories and resources.
- Describe the chronologic development of California.
- Describe the distribution of California's geologic resources and explain why they occur where they do.
- Describe the geologic hazards to which California is prone and project which areas are most vulnerable to each.

5. Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]

- I. California's 11 geologic provinces
- II. Chronologic development: Paleoproterozoic-Mesoproterozoic: Accretion of continental crust
- III. Chronologic development: Mesoproterozoic-Neoproterozoic: Part of Rodinia
- IV. Chronologic development: Neoproterozoic-Devonian: Breakup of Rodinia and passive continental margin
- V. Chronologic development: Mississippian-Pennsylvanian: Transformation to active continental margin
- VI. Chronologic development: Pennsylvanian-Permian: Formation of Pangaea
- VII. Chronologic development: Permian-Eocene: Cordilleran orogenies
- VIII. Chronologic development: Oligocene-present: Transformation to a transform plate boundary
- IX. Geologic resources: minerals and rock materials
- X. Geologic resources: petroleum
- XI. Geologic resources: soils
- XII. Geologic resources: groundwater
- XIII. Geologic hazards: faults and earthquakes
- XIV. Geologic hazards: landslides
- XV. Geologic hazards: flooding
- XVI. Geologic hazards: volcanic activity

Does this course overlap a course offered in your academic program? YES ☐ NO ☒

If YES, what course(s) and provide a justification of the overlap?

Does this course overlap a course offered in another academic area? YES ☐ NO ☒

If YES, what course(s) and provide a justification of the overlap?

Signature of Academic Chair(s) of the other academic area(s) is required on the signature sheet below.

6. Cross-listed Courses (Please fill out separate description in item 1 above, for each PREFIX)

A. List Cross-listed Courses (Signature of Academic Chair(s) of the other academic area(s) is required).

Prefix for cross-listed discipline(s):

B. Department responsible for staffing: Biology, Geology and Nursing

7. References. [Provide 3 - 5 references on which this course is based and/or support it.]

- Baldrige, W.S. 2004 Geology of the American Southwest: A Journey Through Two Billion Years of Plate-Tectonic History: Cambridge Univ. Press, Cambridge, UK.
- Harden, D.R. 2004 California Geology (2nd edition): Pearson/Prentice Hall, Upper Saddle River, NJ.
- Yeats, R.S. 2001 Living With Earthquakes in California: A Survivor's Guide: Oregon State Univ. Press, Corvallis, OR.

8. List Faculty Qualified to Teach This Course.

- Geology faculty

9. Effective Date

A. First semester offered: Fall 2008

10. New Resources Required. YES ☐ NO ☒

If YES, list the resources needed and obtain signatures from the appropriate programs/units on the sheet below.

A. Computer (data processing), audio visual, broadcasting needs, other equipment)

B. Library needs

C. Facility/space needs

11. Will this new course alter any degree, credential, certificate, or minor in your program? YES ☐ NO ☒

If, YES attach a program modification form for all programs affected.

Catalog deadline for New Minors and Programs (including modifications): October 15, 2007, preceding year.

Catalog deadline for Course Proposals and Modifications: November 9, 2007, of preceding year.

Last day to submit any work to be considered for the academic year: April 15th.

Christopher Wheeler/Nancy Mozingo

Proposer of Course

11/5/2007

Date

Approval Sheet
Program/Course:

Program Chair(s)

Date

Program Chair(s)

Date

General Education Chair(s)

Date

Curriculum Committee Chair(s)

Date

Dean of Faculty

Date