New Course Proposal

Courses must be submitted by November 9, 2007, to make the next catalog production.

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
Repeatability: Repeatable for a maximum of units
Lab Fee Required: No
Credit/No Credit: Total Completions Allowed
Optional (Student Choice): Multiple Enrollment in Same Semester

Mode of Instruction/Components (Hours per Unit are defaulted).

<table>
<thead>
<tr>
<th>Component</th>
<th>Units</th>
<th>Hours per Unit</th>
<th>Benchmark Enrollment</th>
<th>Graded Component</th>
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<tbody>
<tr>
<td>Lecture</td>
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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)

Lab Fee Required: No

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.]

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 11/5/2007
Proposer of Course Date
## Approval Sheet

**Program/Course:**

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<th>Chair(s)</th>
<th>Date</th>
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<tbody>
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<td>Program Chair(s)</td>
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<td>Program Chair(s)</td>
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<td>General Education Chair(s)</td>
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<td>Curriculum Committee Chair(s)</td>
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<td>Dean of Faculty</td>
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