

GEOL 100: EARTH MATERIALS - ROCKS AND MINERALS

In Workflow

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11. PeopleSoft (PeopleSoft@csus.edu)

Approval Path

1. Fri, 11 Oct 2019 20:01:17 GMT
Brian Hausback (hausback): Approved for GEOL Committee Chair
2. Fri, 11 Oct 2019 20:35:43 GMT
Kevin Cornwell (cornwell): Approved for GEOL Chair
3. Mon, 21 Oct 2019 22:24:04 GMT
Thomas Krabacher (tsk): Approved for NSM College Committee Chair
4. Wed, 23 Oct 2019 18:00:59 GMT
Shannon Datwyler (datwyler): Approved for NSM Dean

Date Submitted: Fri, 11 Oct 2019 19:59:38 GMT

Viewing: GEOL 100 : Earth Materials - Rocks and Minerals

Last edit: Fri, 11 Oct 2019 19:59:37 GMT

Changes proposed by: Brian Hausback (101033396)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
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Catalog Title:

Earth Materials - Rocks and Minerals

Class Schedule Title:

Earth Materials-Rocks&Minerals

Academic Group: (College)

NSM - Natural Sciences & Mathematics

Academic Organization: (Department)

Geology

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Fall 2020 (2020/2021 Catalog)

Subject Area: (prefix)

GEOL - Geology

Catalog Number: (course number)

100

Course ID: (For administrative use only.)

135076

Units:

4

In what term(s) will this course typically be offered?

Fall, Spring

Does this course require a room for its final exam?

Yes, final exam requires a room

Does this course replace an existing experimental course?

No

This course complies with the credit hour policy:

Yes

Justification for course proposal:

Revision of the current GEOL 100 (Mineralogy). This revised course (Earth Materials - Rocks and Minerals) is a required part of both of our undergraduate degrees in Geology (BA & BS) that are programs currently under revision. This course incorporates the beginning elements of the study of earth materials, a critical area of study for any geologist.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)

Properties and identification of minerals and rocks; rock formation and the rock cycle. Lecture three hours; laboratory three hours; field trip.

Are one or more field trips required with this course?

Yes

Fee Course?

No

Is this course designated as Service Learning?

No

Does this course require safety training?

Yes

Does this course require personal protective equipment (PPE)?

Yes

Does this course have prerequisites?

Yes

Prerequisite:

CHEM 1A, GEOL 5 or GEOL 10/10L, GEOL 12 (can be taken concurrently)

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

No

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Laboratory
Lecture

Laboratory Classification

CS#16 - Science Laboratory (K-factor=2 WTU per unit)

Laboratory Units

1

Lecture Classification

CS#02 - Lecture/Discussion (K-factor=1WTU per unit)

Lecture Units

3

Is this a paired course?

No

Is this course crosslisted?

No

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Description of the Expected Learning Outcomes: Describe outcomes using the following format: "Students will be able to: 1), 2), etc."

1. Use physical properties to identify common rock-forming and economically important minerals
2. Associate families of minerals by chemical composition and molecular structure
3. Recognize the geologic processes and settings of mineral formation
4. Identify representative samples of igneous, sedimentary, and metamorphic rocks
5. Understand the geologic stories that rocks tell (their environment of formation)
6. Appreciate how rocks are used to understand Earth history (familiarity with absolute dating techniques)
7. Associate rock types with plate tectonic settings

Attach a list of the required/recommended course readings and activities:

Geology 100 Readings and Activities.docx

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.

- Lab assignments (ELO 1-4)
- Quizzes (ELO 1-7)
- Lab Exams (ELO 1-4)
- Lecture Exams (ELO 1-7)
- Project (ELO 1-7)
- Field Trip (ELO 4, 5 7)

Is this course required in a degree program (major, minor, graduate degree, certificate?)

Yes

Has a corresponding Program Change been submitted to Workflow?

Yes

Identify the program(s) in which this course is required:

Programs:

- BA in Geology
- BS in Geology
- BS in Geology (Hydrogeology)

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals

Undergraduate Learning Goals:

Competence in the disciplines

Knowledge of human cultures and the physical and natural world

Intellectual and practical skills

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?

No

Please attach any additional files not requested above:

G100SyllabusProposal_v3.docx

Key: 2354