

# GEOL 213: SEMINAR IN STRUCTURAL GEOLOGY AND TECTONICS

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## In Workflow

1. GEOL Committee Chair (amy.wagner@csus.edu)
2. GEOL Chair (cornwell@csus.edu)
3. NSM College Committee Chair (tsk@csus.edu)
4. NSM Dean (datwyler@csus.edu)
5. Academic Services (torsetj@csus.edu;%20cnewsome@skymail.csus.edu)
6. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
7. Dean of Undergraduate (james.german@csus.edu;%20celena.showers@csus.edu)
8. Dean of Graduate (cnewsome@skymail.csus.edu)
9. Catalog Editor (torsetj@csus.edu)
10. Registrar's Office (w lindsey@csus.edu)
11. PeopleSoft (PeopleSoft@csus.edu)

## Approval Path

1. Mon, 01 Mar 2021 18:37:13 GMT  
Amy Wagner (amy.wagner): Approved for GEOL Committee Chair
2. Mon, 01 Mar 2021 18:46:52 GMT  
Kevin Cornwell (cornwell): Approved for GEOL Chair
3. Thu, 04 Mar 2021 00:08:01 GMT  
Thomas Krabacher (tsk): Rollback to GEOL Chair for NSM College Committee Chair
4. Thu, 04 Mar 2021 15:10:50 GMT  
Kevin Cornwell (cornwell): Rollback to GEOL Committee Chair for GEOL Chair
5. Tue, 16 Mar 2021 18:56:07 GMT  
Amy Wagner (amy.wagner): Approved for GEOL Committee Chair
6. Tue, 16 Mar 2021 20:57:16 GMT  
Kevin Cornwell (cornwell): Approved for GEOL Chair
7. Wed, 17 Mar 2021 22:13:52 GMT  
Thomas Krabacher (tsk): Approved for NSM College Committee Chair
8. Wed, 17 Mar 2021 22:18:38 GMT  
Shannon Datwyler (datwyler): Approved for NSM Dean

Date Submitted: Mon, 01 Mar 2021 15:56:32 GMT

## Viewing: GEOL 213 : Seminar in Structural Geology and Tectonics

Last edit: Tue, 16 Mar 2021 18:55:51 GMT

Changes proposed by: David Shimabukuro (214115422)

### Contact(s):

Name (First Last)	Email	Phone 999-999-9999
David Shimabukuro	dhs@csus.edu	916-278-6382

### Catalog Title:

Seminar in Structural Geology and Tectonics

### Class Schedule Title:

Seminar Structure & Tectonics

### 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 2022 (2022/2023 Catalog)

**Subject Area: (prefix)**

GEOL - Geology

**Catalog Number: (course number)**

213

**Course ID: (For administrative use only.)**

202621

**Units:**

3

**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:**

Justification for all Geology graduate course proposals:

The Geology department has a small graduate program (approximately 12 students admitted per year) that tends to be split between a 'rock' and 'water' focus. Students take 9 units of core courses that are scheduled to be taken over two years. The department offers two graduate electives each semester, one with more of a rock focus and another with more of a water focus so students have graduate electives that are relevant to their primary area of research.

The Geology department has a robust undergraduate program, teaches a number of general education mega-sections, and has faculty with active research programs (and, thus, course release and buyout). Therefore, having tenured and tenure-track faculty with available WTU to teach the graduate courses has been challenging. Additionally, the graduate courses are not listed as being repeatable for credit, further limiting the options that can be offered each semester.

In an effort to provide more flexibility for our graduate students to be taught by our own Geology faculty and maintain a level of continuity, we are proposing to move towards more general course descriptions and offer many of the courses as 'Seminar in ...' and change all the courses to be repeatable for credit. (See attached email from OGS regarding this and financial aid). It is likely that graduate students will not end up repeating any courses because more broad course descriptions will provide the flexibility for more faculty to teach each course. Offering our graduate courses in this way will benefit the graduate students in our department by ensuring 1) a variety of elective topics are offered each semester, 2) tenured and tenure-track faculty are teaching the courses, and 3) the ability to repeat a course for credit without having to petition for an exception with OGS.

GEOL 213 course specific justification:

Broadens course title, course description, and learning objectives; specific course content to be determined by the instructor and specifically outlined in the course syllabus.

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

Advanced treatment of deformation of the lithosphere of the Earth over short and long timescales. Topics may include structural analysis, tectonic geochemistry, field studies, geochronology, use of technical analytical software, and interpretation of geologic mapping; review of published literature, collection and analysis of data, and preparation of technical manuscript.

**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?**

No

**Does this course require personal protective equipment (PPE)?**

No

**Course Note: (Note must be a single sentence; do not include field trip or fee course notations.)**

May be repeated for credit if covering different topics.

**Does this course have prerequisites?**

Yes

**Prerequisite:**

GEOL 110A, MATH 30, graduate-level status in geology, or instructor permission.

**Prerequisites Enforced at Registration?**

No

**Does this course have corequisites?**

No

**Graded:**

Letter

**Approval required for enrollment?**

No Approval Required

**Course Component(s) and Classification(s):**

Lecture

**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?**

Yes

**How many times can the course be taken (not including first time passed)?**

4

**Total credits allowed (including first time passed)**

12

**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.'**

Students will be able to:

- 1) Review and appraise literature on research question and analytical technique
- 2) Collect data using a discipline-specific technique appropriate to a research question
- 3) Analyze and interpret structural data
- 4) Synthesize and communicate results in a technical manuscript

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

Geology 213 syllabus for course change.pdf

**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.

weekly writeup on literature (ELO 1)

intermediate deliverables on data collection, analysis, and interpretation (ELOs 2,3)

final technical paper that communicates use of data to answer research question (ELO 4)

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

No

**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**

### **Graduate (Masters) Learning Goals:**

Critical thinking/analysis

Communication

Information literacy

Disciplinary knowledge

Intercultural/Global perspectives

Professionalism

Research (optional)

**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

**Is this a Graduate Writing Intensive (GWI) course?**

No

**Please attach any additional files not requested above:**

Course repeat OGS.pdf

### **Reviewer Comments:**

**Thomas Krabacher (tsk) (Thu, 04 Mar 2021 00:08:01 GMT):** Rollback: Proposal being rolled back in order for dept. to check on (1) any issues with repeating a course with same number for grade; (2) Any financial aid implications for repeating a course with same number; (2) advisability of making the justification more student-oriented. Amy W. has the details, if needed.

**Kevin Cornwell (cornwell) (Thu, 04 Mar 2021 15:10:50 GMT):** Rollback: Amy, this is for you to look at again...

Key: 2397