

Structural Geology Gly 313 Policy
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Office hours: 9-10, 11-12: M,W,F; other times by appointment.

Attendance: There is no attendance policy, though you are expected to attend class regularly.

Tests: There will be three exams in lecture, the third test being the final examination. The lowest of the three test scores will be given one-half weight of the higher test scores in calculating your final average in lecture. The laboratory will be a series of 10 point exercises and a lab exam worth 40 points at semester's end. The accumulated points from these exercises and test will be the basis of your lab average.

Grading:

Grade scale	A: 90's
	B: 80's
	C: 70's
	D: 60's
	F: <60

Grade determination: The grade for the course will be a composite of both the lecture and lab averages weighted as follows:

If the lab average is > the lecture average
final avg. = 50% lab + 50% lecture

OR

If the lecture average is > the lab average
final avg. = 33.3% lab + 66.7% lecture

Course Outline

Text: Structural Geology, Robert D. Hatcher, Jr. 2nd ed.

Objectives: To provide the fundamental of how earth materials behave in response to stresses within the earth and to study the resulting features. To see what structural features tell us about the geologic past and what will be happening in the future. To develop the ability to visualize, interpret and depict the three dimensional features associated with structural geology.

Topics and Readings:

- I) Scope of Structural Geology (preface, chaps. 1,2)
- II) Stress/Strain (chaps. 3-6)

TEST #1

III) Folds(chaps.14, 15)

IV) Joints (chap.8)

TEST #2

V) Faults and Faulting(chaps. 10-13)

VI) Metamorphic Structures & Textures(chap. 8)

FINAL EXAM

Laboratory:

There is no text for the lab. The lab will consist of a series of geometric drawings solving various structural geology problems. Geologic maps will be investigated to determine the structural history of different U.S. regions.

Lab Objectives: To develop the ability to visualize and represent three dimensional geology in two dimensions and interpret the structural and geologic history of selected areas in the US from geologic maps..

If there is a field trip in the course of the semester, bonus points will be given for participating and taking a quiz afterwards; the trip is not mandatory but highly recommended.

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