



Course Syllabus: Structural Geology Laboratory

McCoy College of Science, Mathematics, and Engineering

GEOS 3434-21A | Spring 2020

Contact Information

Instructor: Dr. Jonathan D. Price

Office: Bolin 102

Office hours: M: 8-10a, 3-5p

W: 9-10a

F: 10-11a

Or by appointment

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Course Objectives

Structural geology introduces students to the nature of deformed earth. The laboratory, which is tied to the GEOS 3434 lecture, provides tools for the practical assessment of exposed and at-depth structural geology.

Textbook & Instructional Materials

STRUCTURAL ANALYSIS+SYNTHESIS REQUIRED Author: ROWLAND Edition: 3RD 07 Publisher: WILEY ISBN: 9781405116527

Room

Bolin 115 is both the meeting room and workroom for the course. Access by valid student ID card.

Student Handbook

Refer to: [Student Handbook 2018-19](#)

Academic Misconduct Policy & Procedures

Academic Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given). Additional guidelines on procedures in these matters may be found in the Office of Student Conduct.

Grading

Table 1: Assignment weights (out of entire GEOS 3434 Structural Geology course – see lecture syllabus)

Lab assignments and quizzes	30%
Lab final project	10%
Field trip assignment	10%

Table 2: Total percentage points for final grade.

Grade	Points
A	90+
B	80 to 89.9
C	70 to 79.9
D	60 to 69.9
F	Less than 60

Work submission

Assignments may be remitted in class to the professor or TA, in person or to Price's mailbox in Bolin 102. You may also scan and submit your work through email. Some assignments may require submission through 2DL.

Note: You may not submit a paper for a grade in this class that already has been (or will be) submitted for a grade in another course, unless you obtain my explicit written permission and that of the other instructor involved in advance.

Exams

No laboratory exams

Projects Required

A term project is a synthesis of the laboratory.

Writing Center

Begin drafting papers as early as possible and take advantage of the MSU Writing Center, located off the 2nd floor atrium of Prothro-Yeager! Tutoring is available Monday through Thursday from 9am to 4pm; you can also find a tutor at the satellite location in Moffett Library Honors Lounge, Sunday and Thursday from 6pm to 9pm. Writing tutors will not edit your papers for you, but they will provide support and feedback at every stage of the writing process, from brainstorming to drafting, revising to proofreading.

Colloquium

The Kimbell School of Geosciences hosts up to three speakers each semester as part of our Geoscience and Environmental Science Colloquium. This is an opportunity to learn about the broader science from experienced practitioners. As students in this class, your attendance is mandatory. The schedule is at <https://msutexas.edu/academics/scienceandmath/geosciences/colloquium>

Late Work

Late submitted assignments are the bane of our mutual existence: they are disadvantageous to you, because you fall behind the class. They are detrimental to the class, because they hold up my grading. They are disconcerting to me, because they require my reexamination of a previously graded assignment.

In an attempt to prevent tardy assignments, you will receive 10% points on the assignment for handing it in at the due time. Any late submission will result not receive this 10%. You will continue to lose 10% for each week the assignment

remains late. In effect, you lose a letter grade each week your assignment is late.

Needless to say, this will not be an issue if you complete your assignments well ahead of the due date.

Desire-to-Learn (D2L)

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into [D2L](#) through the MSU Homepage. If you experience difficulties, please contact the technicians listed for the program or contact your instructor.

Attendance

Students are expected to attend all meetings of the laboratories in which they are enrolled. Students are graded on intellectual effort and performance rather than attendance, but absences or tardiness from lecture will result in a lower grade. The instructor is inclined to accept most excuses offered *prior* to the absence.

Note: you are still responsible for missed assignments and quizzes (most labs will include an assignment and/or quiz).

Furthermore

Most students state that structural geology is the most challenging class within the undergraduate geoscience curriculum. It incorporates attributes of geometry and spatial reasoning. It relies heavily on careful measurement and calculation. The coursework builds on itself. It requires practice for mastery. You cannot do structural geology unless you become proficient the techniques covered in the exercises.

In general, it takes the instructor all two hours of face-to-face lab time to introduce and work examples of the exercises. You will be required to spend four or more hours each week outside of lab time to complete the work.

This spring will employ a split teaching effort between lecture (Dr. Katumwehe) and laboratory (Dr. Price). We will give you the best possible exposure to structural geology through our joint experiences. Because there are two professors, through communication is imperative. Please make certain to inform both of any issues, concerns, and excuses.

Change of Schedule

A student dropping a course (but not withdrawing from the University) within the first 12 class days of a regular semester or the first four class days of a summer semester is eligible for a 100% refund of applicable tuition and fees. Dates are published in the Schedule of Classes each semester.

Refund and Repayment Policy

A student who withdraws or is administratively withdrawn from Midwestern State University (MSU) may be eligible to receive a refund for all or a portion of the tuition, fees and room/board charges that were paid to MSU for the semester. HOWEVER, if the student received financial aid (federal/state/institutional grants, loans and/or scholarships), all or a portion of the refund may be returned to the financial aid programs. As described below, two formulas (federal and state) exists in determining the amount of the refund. (Examples of each refund calculation will be made available upon request).

Services for Students with Disabilities

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to [Disability Support Services](#).

University-Wide Policies: Campus Carry

Refer to: [Campus Carry Rules and Policies](#)

Grade Appeal Process

Update as needed. Students who wish to appeal a grade should consult the Midwestern State University [Undergraduate Catalog](#)

Notice

Changes in the course syllabus, procedure, assignments, and schedule may be made at the discretion of the instructor.

Course Schedule

Week	Date	Lab	Topic
Week 1	22-Jan	Rowland et al., Lab 1	Attitude adjustment
Week 2	29-Jan	Rowland et al., Lab 2	Outcrop patterns
Week 3	5-Feb	Rowland et al., Lab 3	Geologic Maps
Week 4	12-Feb	Rowland et al., Lab 4	Structure sections
Week 5	19-Feb	Brunton Lab	Pocket transit
Week 6	26-Feb	Rowland et al., Lab 5	Stereonets
Week 7	4-Mar	Rowland et al., Lab 6	Folds
Week 8	11-Mar	Review Lab	Planes and folds
Spring break	14-Mar	Field Trip	Big Bend region
Week 9	25-Mar	Rowland et al., Lab 7	Stereoanalysis
Week 10	1-Apr	Rowland et al., Lab 8	Secondary folds
Week 11	8-Apr	No lab	Easter week
Week 12	15-Apr	Rowland et al., Lab 9	Faults
Week 13	22-Apr	Rowland et al., Lab 10	Kinematics
Week 14	29-Apr	Rowland et al., Lab 11	Report guidelines
Saturday	2-May	Field Trip	Southern Oklahoma
Week 15	6-May	Final project	Report Due