

GEOLOGY 5304 - GEOLOGY OF WEST TEXAS

Dept of Biology, Geology and Physical Sciences
College of Arts and Sciences Sul Ross State University
Spring 2020

TuThrs 11:00-12:15 Sul Ross and Midland College

INSTRUCTOR: Dr. E Measures

OFFICE: WSB 315

PHONE: 837-8117

EMAIL: measures@sulross.edu

MAIL BOX: WSB 216

OFFICE HOURS: MWF 11 – 11:45 am

MTWTrF 2 – 3 pm

or by appointment

hours may change, and will be

posted on office door and BlackBoard

COURSE DESCRIPTION

The class is an introduction to the geology of west Texas. It will outline the geologic evolution of the region and relate it to continental-scale and global-scale geologic events. Topics range from billion-year-old continental collisions, through deep sea deposition, reefs, explosive volcanism, mineral and petroleum deposits, to the evolution of the present day west Texas landscape. Field trips will be optional.

METHODS OF INSTRUCTION

The course consists of three hours of lecture. The course is delivered through interactive TV. In the rare event of a technical malfunction that prevents a daily lecture, the lecture will be recorded at a time/date soon after the malfunction and posted for viewing. Details will be posted on BlackBoard. Blackboard will be used to post announcements, assignments, and ancillary material. Day-long field trips will be offered and are optional.

FIELD TRIPS

One-day field trips are optional. If offered, they will be on Friday, Saturday or Sunday during the semester. Rarely will a trip be offered on a Thursday.

TEXTS

Required:

Texas through Time. 2016. Thomas Ewing. Bureau of Economic Geology Udden Series No. 6. Bureau of Economic Geology. 431 p.

Optional books/maps:

Roadside Geology of Texas, 1991, by Darwin Spearing.

Geo-Texas, A Guide to the Earth Sciences, 2001, by Eric R. Swanson.

Geologic Atlas of Texas (a series of geologic maps) by the Bureau of Economic Geology, Austin, Texas.

CLASS ATTENDANCE POLICY

On-time attendance is expected in lectures, as well as staying throughout the entire class period. Tardiness and leaving during class are not acceptable except for serious, legitimate reasons (illness, family emergency, caregiver, emergency responder).

Keep the instructor informed, through email, before or after absences.

If you are going to miss a lecture, or have missed a lecture, written notification (email) must be provided as soon as possible. Be sure to get the notes from another student in the class.

Participation in University sanctioned events causing an absence needs prior written notification, documentation, and **arrangements** for any assignments due, Missed lecture exams must be made-up within one week of the scheduled exam date and only for a legitimate excuse (legitimacy will be determined by the instructor). If lecture exam is not taken within the week, then an all-essay make-up exam will be administered on Dead Day.

CONDUCT

You are expected to pay attention to the lecture, take notes, or record them.

Working on another class is not acceptable and may result in your expulsion for that class period.

Students are expected to observe the University's Code of Student Conduct (see Student Handbook, <http://www.sulross.edu/pages/3633.asp>).

ELECTRONICS POLICY

Smart phone, cell phone, i-pod, laptop usage is prohibited during lecture except for the express purpose of recording or taking notes; points will be deducted from tests for violation of this policy. If electronics are accessed during a test then the test will receive a grade of zero.

Usage of electronic devices for note-taking needs written request and discussion with instructor.

Turn OFF all cell/smart phones, IPODs, MP3s, etc.

DISABILITIES ACCOMMODATION

Sul Ross State University (SRSU) is committed to equal access in compliance with Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the Student's responsibility to initiate a request. Please contact Ms. Rebecca Greathouse Wren, M.Ed., LPC-S, Director/Counselor, Accessibility Services Coordinator, Ferguson Hall (Room 112) at 432.837.8203; mailing address is P.O. Box C-122, Sul Ross State University, Alpine, Texas 79832. Students receive letter with accommodations and then need to contact the instructor as soon as possible to initiate the recommended accommodations.

DISTANCE EDUCATION STATEMENT

Students enrolled in distance education courses have equal access to the university's academic support services, library resources, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should submit online assignments through Blackboard or SRSU email, which require secure login information to verify students' identities and to protect students' information. All lecture exams will be proctored. The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook

GRADING/COURSE REQUIREMENTS

The semester grade/assignments:	Grading Scale:		
72% from lecture exams (3)	100-90.00	A	
14% from homework assignments	89.99-80.00	B	
14% from term research reports	79.99-70.00	C	☹
	69.99-60.00	D	☹
	<59.99	F	☹

Exams cover about 4.5 weeks of material.

Last exam is comprehensive (approximately $\frac{1}{3}$ of the questions will be from exam 1 & 2 material).

Homework: Questions based on chapters in the text or assigned optional readings.

Homework will be scanned and sent as email attachments. Only single documents will be accepted, multiple files are not acceptable. Photos of homework are not acceptable.

Homework questions may appear in some format on exams. Late homeworks will be penalized 25 points for each 24 hours late.

Incomplete (I) grades are given where passing work has been done and only a minor part of the requirements are incomplete.

EXPECTED COURSE OBJECTIVES & LEARNING OUTCOMES

At the end of the semester, the successful student will be able to apply critical reasoning and problem solving skills to:

1. Knowing the stratigraphic sequence of rocks exposed in west Texas (SLO 4).
2. Using the units to explain and interpret the depositional geologic history of west Texas (SLO 1).
3. Using the units and their geologic structure to explain the tectonic events that occurred in west Texas (SLO 3).

GEOLOGY MASTER OF SCIENCE STUDENT LEARNING OUTCOMES (SLO's)**GEOLOGY BACHELOR OF SCIENCE MARKETABLE SKILLS**

1. Student will be able to conduct field work.
2. Student will be able to use field equipment.
3. Student will be able to use lab equipment.
4. Student will be able to use library resources.
5. Student will be able to communicate in written and oral format.

SCHEDULE IS TENTATIVE AND SUBJECT TO CHANGE

Week 1	Jan 14 – Jan 16	Intro
Week 2	Jan 21 – Jan 23	Precambrian
Week 3	Jan 28 – Jan 30	Precambrian - Paleozoic
Week 4	Feb 4 – Feb 6	Paleozoic
Week 5	Feb 11 – Feb 13	Paleozoic & <i>Exam 1 Thrs Feb 13</i>
Week 6	Feb 18 – Feb 20	Paleozoic
Week 7	Feb 25 – Feb 27	Paleozoic – Mesozoic
Week 8	Mar 3 – Mar 5	Mesozoic

Mar 9 – Mar 13 SPRING BREAK – No class

Week 9	Mar 17 – Mar 19	Mesozoic
Week 10	Mar 24 – Mar 26	Mesozoic & <i>Exam 2 Thrs Mar 26</i>
Week 11	Mar 31 – Apr 2	Cenozoic
Week 12	Apr 7 – Apr 9	Cenozoic
Week 13	Apr 14 – Apr 16	Cenozoic
Week 14	Apr 21 – Apr 23	Presentations
Week 15	Apr 28	Presentations
	Apr 30	Dead Day
Finals Wk	Mon May 4	<i>Exam 3 10:15 am to 12:15 pm</i>