

GEOL 4311 – Stratigraphic Analysis

Spring - 2025

Section: 001

Lecture Times: MWF: 9:00-9:50 am

Room: WSB 210

Instructor: Dr. Tom Shiller

Office: WSB 319

Office Hours: Tuesday and Thursday, 9-11:00 am; Wednesday, 1-3:00 pm; or by appointment

e-mail: thomas.shiller@sulross.edu

Course Purpose:

Stratigraphic Analysis will cover advanced topics in stratigraphy with a focus on facies analysis, sequence stratigraphy, sedimentology, and basin dynamics.

Research Projects:

Two research projects will be assigned throughout the semester pertaining to topics discussed in lecture. Students will give a brief presentation in class and turn in a research paper.

In-class Activities:

There will be in-class exercises throughout the semester related to advanced stratigraphic methods and analysis.

Field Trip Report:

There will be one weekend field trip during the semester (date TBD). Following the field trip, students will write a short report outlining their observations.

Exams:

There will be four total exams covering sections discussed following the previous exam. These exams will comprise primarily short answer and essay questions.

Points:

4 Exams = 40% (10% each)

Research Project Presentations = 25% (5% each)

Research Project Reports = 25% (5% each)

Field Trip Report = 10%

Your accumulated grades will be recorded on Blackboard in the Grade Center.

Letter Grading: Final course grade will be based on a percentage of the total points as follows:

90.00-100% = A

80.00-89.90% = B

70.00-79.90% = C

60.00-69.90% = D

Less than 60.00% = F

Attendance and Make-up Policy:

The only acceptable excuses for missing class are those due to illness, approved Sul Ross sanctioned events, and observation of religious holidays. All excused absences **must** be documented on paper. Please inform the professor at least 1 week prior to missing class (e-mail, note on office door, etc...). With an appropriate excuse, you must make up missed quizzes/exams **within 10 days** of the last day of the absence or you have failed to meet your course responsibilities and will receive a zero. Attendance will be recorded at the beginning of class each day. Attendance is expected, but does not count towards the final grade. Students with 2 or less unexcused absences may drop an exam grade. **Arriving 10 minutes or later to class will be considered an unexcused absence.**

University policy dictates that your instructor can drop you with an F from the course after 6 absences from TR/MW classes or after 9 absences from MWF classes.

Student athletes: You are given a full week to return the completed documentation: your progress (attendance and grade) to your coach, so when you present that card to me, I will take it and return it to you the following class period. Alternatively, you can bring it to my listed office hours and I will look up your progress then. I will not complete them at the beginning or end of class. No exceptions.

Classroom Conduct:

The Student handbook states under Student Misconduct, number 21, "Such prohibition includes disorderly classroom conduct that obstructs, interferes with, inhibits and/or disrupts teaching and/or classroom activities." Behavior which is included in this category: 1) persistent talking to ones' neighbors during lecture, 2) coming to class late or leaving early, 3) the use of cellular phones or MP3 devices in the classroom. **CELL PHONES MUST BE TURNED OFF IN CLASS.** This includes texting, emailing and social networking. (*If you are a member of an EMS/VFD group or have a child in day care and they must be able to reach you, let me know and we will discuss.*) Offenders of this policy will be asked once to stop and 5 points will be taken from their grade. If it occurs a second time, the offender will be instructed to leave the classroom, and there will be a meeting with the Dean of Student Life. If there are further incidents, UDPS will be called and offenders will be physically ejected from the classroom and will likely be expelled from the University.

CHEATING AND PLAGIARISM WILL NOT BE TOLERATED:

Any student caught cheating on an exam or quiz will receive an automatic **zero** on that assignment. If a student is caught cheating second time, additional disciplinary actions will be taken. Any student plagiarizing information on an assignment will receive an automatic zero for that assignment.

ADA Statement

SRSU Accessibility Services. Sul Ross State University (SRSU) is committed to equal access in compliance with the 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 each semester for each class. Students seeking accessibility/accommodations services must contact Mrs. Mary Schwartze Grisham, LPC, SRSU's Accessibility Services Director or Ronnie Harris, LPC, Counselor, at 432-837-8203 or email mschwartze@sulross.edu or ronnie.harris@sulross.edu. Our office is located on the first floor of Ferguson Hall, room 112, and our mailing address is P.O. Box C122, Sul Ross State University, Alpine. Texas, 79832.

Lecture Schedule for the Spring 2025 Semester:

Part I: Introduction and Review of Stratigraphic Analysis

Part II: Advanced Stratigraphic Methods

Part III: Sedimentary Facies and Depositional Environments

Part IV: Sequence Stratigraphy

Final Exam: TBD

Geology BS SLO's:

1. The student will be able to apply a diverse body of Geologic information in the area of Earth history.
2. The student will be able to apply a diverse body of Geologic information in the area of mineralogy and petrology.
3. The student will be able to apply a diverse body of Geologic information in the area of structural geology and tectonics.
4. The student will be able to apply a diverse body of Geologic information in the area of stratigraphy.
5. The student will be able to apply a diverse body of Geologic information in the area of field techniques.

Geology BS marketable skills:

- * The student will be able to conduct field work.
- * The student will be able to use field equipment.
- * The student will be able to use lab equipment.
- * The student will be able to use library resources.

*** The student will be able to communicate in written and oral format.**

Student Responsibilities Statement: All full-time and part-time students are responsible for familiarizing themselves with the Student Handbook and the Undergraduate & Graduate Catalog and for abiding by the University rules and regulations. Additionally, students are responsible for checking their Sul Ross email as an official form of communication from the university. Every student is expected to obey all federal, state and local laws and is expected to familiarize themselves with the requirements of such laws.