

GEOLOGY 2301 – LITHOLOGY LAB
SPRING 2017
Dept of Biology, Geology and Physical Sciences
Sul Ross State University
Monday 3-5

Zach Weathers

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Course Description

Lithology lab is a hands-on introduction to the basic concepts of identification, classification and origins of igneous, sedimentary and metamorphic rocks.

Laboratory exercises consist of hand specimen identification and classification of suites of all three rock classes.

This class will:

- 1) provide you with the skills needed to identify and classify hand samples of all three rock types. Samples will be seen in lab and possibly in the field.
- 2) provide you with a background in the vocabulary, past and present, used in the description of all three rock types to enable you to read and understand technical literature and to be able to communicate your findings in written format.
- 3) provide you with the information to interpret the origin, history and tectonic implications of any rock sample.

Pre-requisites/Co-requisites

Physical Geology (GEOL 1303/1103), Historical Geology (GEOL 1304/1104).

Attendance

You are expected to be in lab, on time, every scheduled class day and to stay for the entire class period.

Tardiness and leaving during lecture/lab are not acceptable except for serious, legitimate reasons (illness, family emergency, caregiver, emergency responder).

Keep the instructor informed either immediately before or after absences.

If you are going to miss a lab, or have missed a lab, written notification (email) must be provided as soon as possible.

Schedule appointments around lab times.

Arrangements for missed labs must be done, and the lab also done, within one week of the scheduled due date. Only legitimate excuses will allow for make-up (legitimacy will be determined by the instructor). If an exam is not taken within the week, then a make-up exam will be administered on Dead Day.

Lab will take a MINIMUM of 2 hours per week; the more hours you spend on lab, the better you will understand the material. Lab assignments are due at the end of the lab period. Extra lab time will be available of Fridays.

Conduct

You are expected to be engaged, awake and to work on the lab for the entire lab period.

Grading/Course Requirements

Requirements:

Lab practicals (3)	30%
Quizzes (14)	14%
Lab assignments (14)	56%

Standard grading scheme:

A	≥90%
B	80-89%
C	70-79%
D	60-69%
F	≤ 59%

The following schedule is approximate and subject to change:

Week 1	Jan 17 – Jan 20	No lab
Week 2	Jan 23 – Jan 27	Igneous Rocks
Week 3	Jan 30 – Feb 3	Igneous Rocks
Week 4	Feb 6 – Feb 10	Igneous Rocks
Week 5	Feb 13 – Feb 17	Igneous Rocks
Week 6	Feb 20 – Feb 24	Igneous Rocks
Week 7	Feb 27 – Mar 3	Sedimentary Rocks
	Ig Rx Lab practical 1 Fri Mar 3	
Week 8	Mar 6 – Mar 10	Sedimentary Rocks

Mar 13 – Mar 17 Spring Break – No class

Week 9	Mar 20 – Mar 24	Sedimentary Rocks
Week 10	Mar 27 – Mar 31	Sedimentary Rocks
Week 11	Apr 3 – Apr 7	Sedimentary Rocks
Week 12	Apr 10 – Apr 14	Metamorphic Rocks

Apr 14 Good Friday Holiday – No class

Week 13	Apr 17 – Apr 21	Metamorphic Rocks
	Sed Rx Lab practical 2 Fri Apr 21	
Week 14	Apr 24 – Apr 28	Metamorphic Rocks
Week 15	May 1 – May 3	Metamorphic Rocks
	Meta Rx Lab practical 3 Fri May 5 3 pm	

Disabilities Accommodation

Sul Ross State University is committed to equal access in compliance with the Americans With Disabilities Act of 1973. It is the policy of SRSU to provide reasonable accommodation to students with disabilities. If you would like to request such accommodation because of a physical, mental, or learning disability, please contact the Accessibility Services Coordinator (ADA coordinator), in Counseling & Accessibility Services, Ferguson Hall Room 112, 432-837-8203. It is the student's responsibility to initiate a request for accessibility services.

Please inform the instructor ASAP of accommodations

Expected Student Learning/Course Objectives/Outcomes

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

- * identify the three rock classes in hand sample (SLO # 2 and SLO # 5)
- * describe a rock and interpret and explain its origin (SLO # 1 and SLO # 2)
- * interpret the tectonic significance of a rock sample (SLO # 3)

GEOLOGY UNDERGRADUATE (BACHELOR OF SCIENCE) STUDENT LEARNING OUTCOMES (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.