



College of  
Science

Department of Geology  
& Geophysics

# GEOL1602 Historical Geology Lab Session 1

Eric (Zhang, Zelong)

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Office hours: Howe Russell E145

Friday 12 noon -2PM or by appointment

1/21/2020

# Important Policy

- ◆ Noise: do tell you phone “Do not disturb” during class
- ◆ Attendance: student is expected to attend all classes.
- ◆ Have to miss a class: inform instructor in advance for make-up
- ◆ Quiz: No make-up for quizzes
- ◆ Academic Integrity
- ◆ Other details in syllabus



# Textbook

- ◆ Custom Lab Manual: Historical Geology GEOL 1602 Louisiana State University, McGraw Hill, 2019.
- ◆ ISBN-10: 1307470920
- ◆ ISBN-13: 9781307470925
- ◆ NOTE: Used manuals are NOT acceptable.

# Outline of the Day

- ◇ 1. Course introduction
- ◇ 2. Course structure
- ◇ 3. Grade
- ◇ 4. Introducing yourselves
- ◇ 5. Quiz
- ◇ 6. Lecture
- ◇ 7. Hands-on 13 rock samples

# 1. Course introduction

- ◆ **Historical Geology:** “Understand Earth Systems and their evolution through time.

Enrich your sense of the 4th dimension (deep time). Learn in greater detail important geological and biological events in Earth history that have made the Earth system it is today.”

– Dr. Huiming Bao

- ◆ **Hands-on experience** on sediments, plate tectonics, paleontology, and petrology.

This lab course emphasizes the principles and methods by which geologists discover the origins and changing nature of our planet. These exercises or “studies” will help students understand how ancient conditions can be read from rocks and fossils, how geologic forces at the surface and within the planet can alter the environment, and how events of the past can be placed within an integrated chronological sequence.

– Textbook “Laboratory Studies in Earth History”



## 2. Course structure

- ◆ It consists of 10 labs, 3 exams (2 session-exams and 1 final exam), and 10 in-class quizzes.
- ◆ You can leave early after you ‘surrender’ your reports.  
Or be the last man standing till the class is over. (no bonus)

# 3 Grading

- ◆ 2 pt per quiz, up to 20 pt max
- ◆ 4 pt per lab, up to 40 pt max
- ◆ 12.5 pt per session-exam, up to 25 pt max
- ◆ 15 pt for final, up to 15 pt
- ◆ Raw scores (in 100-scale) will be given with a distribution pattern for each exam
- ◆ Don't be panic when you get 99! It might be the second highest scores.

## 4 Introduce yourselves

- ◆ Team building: buddy system
- ◆ Name, major, hometown, high school, etc.




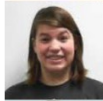








## 5. Quiz (5 mins)

◆ Find their missing names and majors

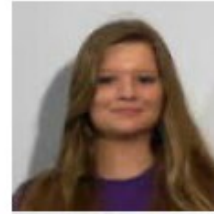
◆ Pairing with your buddy



	Rapp, ____		Allen, ____
	Caronna, ____		Hoppe, ____
	Stein, ____		Berggren, ____
	Dunton, ____		Dakroub, ____
	Adams, ____		Stewart, ____



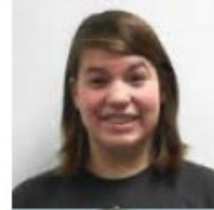
Anne Rapp



Kaycie Allen



Anthony Caronna



Kayleigh Hoppe



Eric Stein



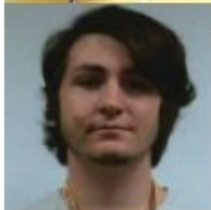
Margaret Berggren



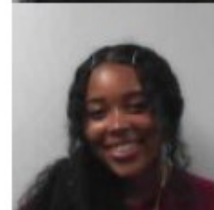
Evan Dunton



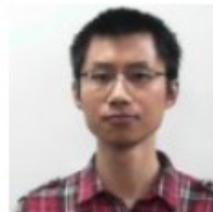
Megan Dakroub



Hunter Adams



Sidnie Stewart



**TA** Eric (Zelong Zhang)

# 6. Lecture

- ◆ 1/8 Sediment rock texture
- ◆ 2/8 Mineral composition
- ◆ 3/8 Sorting
- ◆ 4/8 Grain roundness
- ◆ 5/8 Grainsize
- ◆ 6/8 Fossil
- ◆ 7/8 Deposition environment
- ◆ 8/8 Rock name



# 7 Hands-on

- ◆ 1/8 Sediment rock texture
- ◆ 2/8 Mineral composition
- ◆ 3/8 Sorting
- ◆ 4/8 Grain roundness
- ◆ 5/8 Grainsize
- ◆ 6/8 Fossil
- ◆ 7/8 Deposition environment
- ◆ 8/8 Rock name