

GLS 100 Physical Geology

Fall 2011

Section 01

DAYS: Tuesday, Thursday

TIME: 8:00-9:15 am

ROOM: MH 338

Labs: Tuesday (L21) 10:50-12:40 MH318; Thursday (L22) 10:50-12:40 MH318

Instructor

Doug Allen

Office: MH 331 C

Office Hours: T, R 9:30-10:30 or by appointment

Telephone: 978-542-6653

Email: dallen@salemstate.edu (most reliable way of contacting me)

Course Goal: After taking this course you should be able to identify & interpret some of the geological features and events you experience in your daily life, and in your travels.

Course Objectives: The overarching course goal can be accomplished by meeting the following objectives (the assessment associated with each objective is in parenthesis next to the specific objective):

- improve your ability to recognize & identify earth materials (exam, quiz, lab activity)
- improve your ability to associate geologic features & natural hazards with plate tectonics (exam, quiz, lab activity)
- understand and apply the scientific method (exam, quiz, short paper)
- add geologic terms and concepts to your knowledge bank (exam, quiz, take home mineral assignment, lab activity)
- apply a variety of quantitative methods to better understand geology (lab, in class projects)
- understand and apply geologic models to predict real-world behavior (take home volcano project)

In addition, a series of classroom assessment strategies will be used throughout the semester including questionnaires, minute papers, pre- and post unit questions and multiple choice in-class questions.

Student Responsibilities

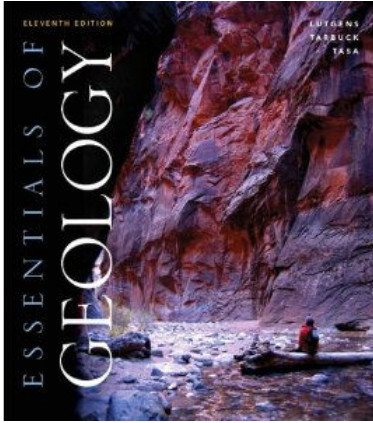
Please read the entire syllabus carefully because you are responsible for all of the information, requirements and procedures described herein. You are also responsible for all announcements, assignments, modifications, changes, etc. that may be made during the course, whether or not you are present in lecture.

Course Description

Physical Geology is a survey of earth materials and earth systems including minerals, rocks, volcanoes, streams, glaciers, oceans, plate tectonics, and

general principles. Three lecture hours and one two-hour laboratory per week. (Satisfies Distribution Division II requirements for laboratory science sequence with GLS 101, GLS 201 or GGR100P)

TEXT:



Essentials of Geology

Eleventh Edition

By Lutgens, Tarbuk and Tasa Publisher: Prentice Hall
ISBN-10: 0321714725 | ISBN-13: 978-0321714725

The assigned textbook is required for this course. There are several options for you to choose from to obtain the textbook.

- 1) The text book is available in the SSC bookstore
- 2) The text book can be purchased directly from the publisher (currently \$98.00 plus shipping) or online at a site such as amazon.com (currently \$80.23).
- 3) A web version of the book can be purchased through the publisher for less than half the price (currently \$43.80). The ebook has a 180 day subscription and can be accessed through any web browser using a unique registration code provided by the publishers.
- 4) There is a downloadable pdf version of the text book (currently \$43.80). The pdf version is the complete textbook that you will have as a digital file.

Go here for the digital versions: <http://www.coursesmart.com/9780321741196>

5) Earlier editions of this textbook are fine but there may be some information covered in class that is not in the earlier editions. If you use an earlier edition, you are still responsible for all of the material covered in class.

Academic Requirements and Grading Scheme

Attendance is **mandatory**. You are allowed two absences only without consequence. 3 absences will result in a failing grade for the course.

You are responsible for any material presented in class that you have missed whether you were in class or not. Material may not be handed in late due to absence. There is a required laboratory session for this course. Attendance is **required** in lab. Absence from two lab sessions will result in a failing grade for the course. You must attend your assigned laboratory. There are no laboratory make-ups.

Each chapter will be accompanied by a take-home, open book quiz. You may use additional resources such as other text books and the web to find your answers (be careful to scrutinize the source of information you are using). You may **NOT** work together on the quizzes. You must complete the quiz **ON YOUR OWN**. Working together on a quiz will result in all parties earning a ZERO on the quiz.

There are two midterm exams and a final exam. There are no make up exams. The mid-term exams and final exams are comprehensive.

The final exam is on: Wednesday, December 14, 8-10:00am in MH338

GRADING:

Lecture: 75% of total grade (Includes attendance and additional class projects and assignments (10%), chapter quizzes (20%), midterm exams (20%) and the final exam (25%)).

The laboratory is 25% of your total grade (includes quizzes, exams and assignments).

Grading will be assigned approximately as follows: A: > 94%, A-: >90%, B+: > 86%, B: >84%, B-: > 80%, C+: > 76%, C: >74%, C-: > 70%, D+: > 66%, D: >64%, D-: > 60%, F: < 60%

Course Policies and Procedures

In regards to conduct, academic and otherwise, students should be aware that the Student Code of Conduct as established by Salem State University governs their actions. Students are responsible for knowing and obeying these rules. Salem State policies and procedures are enforced in this course.

Advice and Effective Study Habits

If you are having difficulty, seek help immediately by consulting me during office hours and/or asking questions during the lecture. Do not hesitate to interrupt the lecture any time that you are not clear about the material; chances are that others are equally confused and may be hesitant to interrupt. You should expect that you will have to read each chapter at least twice (or more) to fully absorb and appreciate the material.

1. Arrive for class early.
2. Attend and actively participate in class.
3. Read the text before and after class.
4. Study at least 2.5 hours outside of class for every hour in class!
5. Review nightly, not just the day before an exam.
7. Form study groups.
8. Write out your answers to the problems neatly and cogently.
9. Take advantage of my office hours and ask questions.

I reserve the right to modify the structure and content of the course as may prove necessary

Salem State College is committed to providing equal access to the educational experience for all students in compliance with Section 504 of The Rehabilitation Act and The Americans with Disabilities Act and to providing all reasonable academic accommodations, aids and adjustments. Any student who has a documented disability requiring an accommodation, aid or adjustment should speak with the instructor immediately. Students with Disabilities who have not previously done so should provide documentation to and schedule an appointment with the Office for Students with Disabilities and obtain appropriate services.

Proposed Topics

Week 1	Prelude: Introduction and the Scientific Method
Week 2	Ch. 1 and Ch14 Earthquakes and Earth's interior
Week 3	Ch. 15 Plate Tectonics
Week 4	Ch. 2 Minerals
Week 5	Ch.3 Igneous Rocks
Week 6	Ch. 4 Volcanoes
Week 7	Ch. 5 Weathering and Soils
Week 8	Ch. 6 Sedimentary Rocks
Week 9	Ch. 7 Metamorphic Rocks
Week 10	Ch. 17 Crustal Deformation and Mountain Building
Week 11	Ch. 18 Geologic Time
Week 12	Ch. 9 and Ch 10 Running water and Groundwater
Week 13	Ch. 11 Glaciers
Week 14	Ch. 13 Shorelines
Week 15	Review

The topics listed above are subject to change. All changes will be announced in class and will be posted on the course web page.

Emergency Statement

In the event of a college-declared critical emergency, Salem State College reserves the right to alter this course's plan. Students should refer to www.salemstate.edu for further information and updates. The course attendance policy stays in effect until there is a college-declared critical emergency.

In the event of an emergency, please refer to alternative educational plans for this course that will be posted on the course's Web page (www.salemstate.edu/~dallen). Students should be prepared for a campus emergency by keeping all course materials with him/her at home so that they are accessible in the case of an emergency.