

GEO 115 HISTORICAL GEOLOGY SYLLABUS
Fall 2003 UM

This course is a review of the history of the earth throughout geologic time. The course examines rocks as records of ancient conditions and environments, and the history of life as shown by fossil evidence. The geologic history of North America is emphasized. The laboratory portion of the course deals with the interpretation of earth history through fossils, sedimentary rocks and sediments, and geologic maps.

1. GEO 115: Historical Geology

2. Instructor: Prof. Barbara Leitner Brande

Office: Harmon Hall Rm. 112 phone 665-6462/970-0523 home

Office hours: Mon: 7:00 - 9:00am, 10:50 - 11:20am

Tues and Thurs: 7:00 - 8:00am, 10:45-11:30am and 1:45-2:00pm

AND other times by appointment.

Contact me when needed, don't hesitate to call me at home before 9:00pm or use my e-mail Brandeb@Montevallo.edu

3. Credit, 4 hours

4. No prerequisites are required.

5. OBJECTIVES: This course satisfies the GEC goal that states "Students will acquire knowledge of nature". At the completion of GEO 115, the student should: 1. be able to identify sedimentary rocks and able to explain their formation in terms of marine and terrestrial sedimentary environments; 2. be able to identify fossils of invertebrate organisms; 3. know how relative and absolute time scales are obtained; 4. know the basic history of the earth as contained in the rock record, and, by learning the scientific method of discovery, understand how it is determined. In doing so, the student will acquire knowledge of nature.

6. Textbook: Exploring Earth System History, S. M. Stanley

Lab: Interpreting Earth History, Petersen and Rigby

USED LAB BOOKS ARE NOT ACCEPTABLE.

7. Class Hours: Lecture: 002 T, Th 9:30 - 10:45am

LAB-002 2:00 - 3:50pm on Tuesday

Lecture: 001 T - Th 8:00 - 9:15am

LAB- 001 9:00 - 10:50am on Monday

8. Grading: Lecture = 75% of grade

1. 4 exams

2. Lowest exam score will be dropped - so NO

MAKEUP EXAMS will be given. Each hourly exam will cover the most recent material with some review of earlier topics.

3. The last exam is given during the final exam period, it is not comprehensive.

Lab = 25% of grade, also see the Lab syllabus

1. WEEKLY quizzes on the assigned material, a reading or the previous week's lab. The lowest grade of your quizzes will be dropped so there are NO MAKEUP QUIZZES. Material from a previous week's lab may be included on a lab quiz.

2. Quiz scores will be averaged, multiplied by 10 and added to the number of labs you turned in. This is your Lab score which is 25% of the course grade.

9. READ the BOOK! Where I give no specific pages to read, you are responsible for the whole chapter. In the second half of the class, I use only specific portions of each chapter and you will be provided with a reading list at that time.

10. NO SMOKING in the classroom please!

11. Please interrupt to ask questions.

12. EXAMS: Lecture: 18 Sept, 14 Oct, 13 Nov and the last test is during final exam week but covers only the most recent material

4th exam 115-001 exam is 8-10am on Thurs, 11 Dec.
115-002 exam is 1:30-3:30pm, Tues, 9 Dec

Lab quizzes: WEEKLY (almost every week). There will be no quiz the week of a lecture exam.

13. The University of Montevallo expects students to attend class. I take attendance and will "round-up" your final grade if your attendance has been very good.

14. It is the policy of the University of Montevallo to afford equal opportunity in education to qualified students. If you have a disability that may prevent you from meeting course requirements, contact the instructor to file a STUDENT DISABILITY STATEMENT and to develop an accommodation plan. Course requirements will not be waived, but reasonable accommodations will be developed to assist you in meeting course requirements. You are expected to work with the instructor and the Office of Student Support Services to develop and implement a reasonable accommodation plan.

15. Used LAB BOOKS are not acceptable.

16. No one may wear a cap during an exam.

17. Late comers will not be admitted to take an exam after other students have finished and gone.

LABORATORY

See Lab syllabus given in lab for additional information.

Lab exercises may be turned in during lab if completed.

Lab exercises are due the lecture following each lab.

Labs turned in late will receive 1/2 credit.

No credit can be earned once a lab has been gone over in class.

Please see a Lab syllabus for more information about that portion of the class.

HISTORICAL GEOLOGY 115-002
Fall 2003 Monday Lab

Laboratory Schedule

Manual: Interpreting Earth History, 6th edition, Petersen and Rigby

25 Aug	intro: read pp 2,5,7,8 What are sedimentary rocks? Where are they deposited? How are they identified?	no quiz
1 September	NO LAB, it's Labor Day	
8 Sept	identify sedimentary rocks	quiz
15 September	do Lab Ch. 2, be sure to learn environments, energy levels, rock types produced	no quiz
22 Sept	rock columns Ch. 3	quiz
29 Sept	correlation, Ch. 4	quiz
6 Oct	NO LAB	
13 Oct	facies relationships Ch. 5	noquiz
20 Oct	Ch. 5 second part	quiz
27 Oct	relative dating, Ch. 6	quiz
3 Nov	fossils, Ch. 9	quiz
10 Nov	classification and morphology, Ch. 10	no quiz
17 Nov	Ch 10, part 2	quiz
24 Nov	evolution, Ch. 11	quiz
1 Dec	last time lab meets (to be decided)	no quiz

LAB QUIZZES will be based on the assigned reading material for each week's lab or/and on the work of the previous week's lab. The lowest grade of your quizzes will be dropped so there are NO MAKEUP QUIZZES.

QUIZ SCORES will be averaged, multiplied by 10 and added to the number of labs you turned in. This is your lab grade which is 25% of your course grade.

Labs may be turned in during the lab period if completed. Lab exercises are DUE the lecture following each lab. Labs can be turned in later for ½ credit. No credit can be earned once a lab has been gone over in class.