## Historical Geology, Geology 0061, Spring 2009

Lecture: MWF 12:00 – 12:50am (Krebs 231), Lab: Th 9:00 – 11:50pm (Basement lab), 4 credits

Instructor: Katrin Monecke

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Office hours: MWF 4:00 - 5:30pm. Th 2:00 - 4:00. Please don't hesitate to contact me with any questions!

Textbook: Prothero, D., Dott, R.: Evolution of the Earth, 7th edition.

McGraw-Hill Higher Education, ISBN 0-07-252808-7

Tentative weekly schedule:

Day	Topic	Reading	Notes
Jan 5	Introduction	Chapter 1	
Jan 7	Floods and Fossils	Chapter 2	
Jan 9	Evolution	Chapter 3	
Jan 8	Lab 1: Sedimentary Rocks		
Jan 12	Evolution	Chapter 3	
Jan 14	The relative geologic timescale	Chapter 4	
Jan 16	Stratigraphy	Chapter 4	
Jan 15	Lab 2: Introduction to Earth History		
Jan 19	Martin Luther King, Jr. Day – no class		
Jan 21	How old is the Earth?	Chapter 5	
Jan 23	The origin and early evolution of the Earth	Chapter 6	
Jan 22	Lab 3: Sedimentological principles		
Jan 26	Mountain Building and Drifting Continents	Chapter 7	
Jan 28	Mountain Building and Drifting Continents	Chapter 7	
Jan 30	Midterm 1		
Jan 29	Lab 4: Plate tectonics		
Feb 2	Cryptozoic History	Chapter 8	Feb 5: Global
Feb 4	Early Life	Chapter 9	warming solutions forum, UPJ
Feb 6	Earliest Paleozoic History	Chapter 10	Campus
Feb 5	Lab 5: Global warming solutions forum		Campus
Feb 9	Earliest Paleozoic History	Chapter 10	
Feb 11	The Later Ordovician	Chapter 11	
Feb 13	The Later Ordovician	Chapter 11	
Feb 12	Lab 6: Sauk Sequence/Cambrian		
Feb 16	The Middle Paleozoic	Chapter 12	
Feb 18	The Middle Paleozoic	Chapter 12	
Feb 20	The Middle Paleozoic	Chapter 12	
Feb 19	Lab 7: Tippecanoe Seq./Ordovician, Silur		
Feb 23	The Late Paleozoic	Chapter 13	
Feb 25	The Late Paleozoic	Chapter 13	
Feb 27	The Late Paleozoic	Chapter 13	
Feb 26	Lab 8: Kaskaskia Seq./Devonian, Mississippian		

Mar 2	Midterm 2	Chapter 14
Mar 4	The Mesozoic	Chapter 14
Mar 6	The Mesozoic	
Mar 5	Lab 9: Absaroka Seq./Pennsyl., Permian, Triassic	
Mar 8 – Mar 15	Spring break	
Mar 16 - 20	Project week	
Mar 23	The Mesozoic	Chapter 14
Mar 25	The Mesozoic	Chapter 14
Mar 27	The Mesozoic	Chapter 14
Mar 26	Lab 10:Tejas Sequence	
Mar 30	The Mesozoic	Chapter 14
Apr 1	Cenozoic History	Chapter 15
Apr 3	Cenozoic History	Chapter 15
Apr 2	Lab 11: Field Trip	
Apr 6	Cenozoic History	Chapter 15
Apr 8	Cenozoic History	Chapter 15
Apr 10	Cenozoic History	Chapter 15
Apr 9	Lab 12:Field Trip	
Apr 13	Pleistocene Glaciations	Chapter 16
Apr 15	The Advent of Humanity	Chapter 16
Apr 17	The Advent of Humanity	Chapter 16
Apr 16	Lab 13:Glaciations	
Apr 20 – Apr 24	Finals week	

Homework: After each lecture make sure to read the respective chapters in your book as well as any additional handouts.

Project: During the week after spring break you will work in groups on different projects. You should

pick one time period and find one representative outcrop in the area. Describe the general paleogeography, climate, flora and fauna during that period and explain how your outcrop fits into the general picture. You have to hand in a final report and present your results during one

of the lab periods. Topics and further details will be announced in class.

Grading: Lecture: 60% 2 midterms: each 20%

final: 20%

Labs: 40% Each lab counts 20 points. The project counts 40 points.

Attendance: You are expected to attend lecture, but formal roll will not be taken. Attendance is mandatory for

exams. If you are missing an exam please inform me via email, telephone or personally and not later than the first class period following the exam. Make-up exams are at my discretion and will be offered only if you have a serious excuse. Attendance during labs is mandatory. Lab exercises have to be completed and turned in during each lab period unless otherwise announced. No make-

up laboratory periods or exams will be offered for unexcused absences.

Academic honesty: The use of the intellectual property of others without attributing it to them is considered a

serious academic offense. Cheating or plagiarism will result in receiving a failing grade for

the work or course.

Students with disabilities: If you have a disability for which you are or may be requesting an accommodation,

you are encouraged to contact both your instructor and the Learning Resource Center, G16 Owen Library, (814) 269-7001 as early as possible in the term. LRC will verify your disability and determine reasonable accommodations for this course.