

Lock Haven University
GEOS 131 – Principles of Geology II, Spring 2009

Md. **Khalequzzaman (Dr. K)** Office: 104B Ulmer Hall, Tel: 484-2075 (o) / 893-8567 (h)

Homepage: <http://www.lhup.edu/mkhalequ> E-mail: mkhalequ@lhup.edu

Lecture: M-W 9:05 – 9:55 am (Ulmer 101); **Lab:** Wed.. 2:30-4:20 pm (Ulmer 106)

Textbook: Wicander, R., and Monroe, J.S., 2007, Historical Geology, 5th edition: Brooks/Cole - Thompson Learning 440 p.

Lab Materials: Peterson, M.S. and Rigby, J.K., 1999, Interpreting Earth History – A Manual in Historical Geology, sixth edition: Boston, WCB McGraw-Hill.

Lab supplements will be provided by the instructor.

Course Policy: **Attendance** in both lectures and labs is **mandatory**. More than five absences in lectures and labs combined will result in one lower letter grade. If you are unable to attend an exam/quiz for a valid reason, you **must** make arrangements with me prior to the exam/quiz or bring a note from your physician - THERE WILL BE NO EXEPTIONS. You will be **expected** to come prepared (i.e. you will have **to read** the lecture topic and lab exercise **before** coming to the lab/lecture) to the class. You are **encouraged to ask** questions during lectures and labs.

Note: The schedule for field trips is tentative, and may change depending on the weather. Lab quizzes will be based on exercises from the lab manual that we cover, identification of samples, construction/interpretation of geologic maps/cross-sections, and field trips. Field trips are mandatory and dress appropriately for the trip.

The **last field trip is scheduled on **April 11, 2009**, which is a Saturday (**in lieu of the lab on April 8**) and will last from 8:00 am to 5:00 pm.

Grading: Weekly lab exercises = 20 % of grade
 2 Lab Quizzes (10% each) = 20% of grade
 2 Hour Exams (15% each) = 30% of grade
 Final Exam (comprehensive) = 30% of grade

Extra credit: You can earn up to 5% of the total grade by writing a term paper on a pre-approved topic (~5-10 pages). The paper is due on or before **April 24, 2009**.

Week of	Lecture Topics & Important Dates Tuesdays & Thursdays of the week	Textbook Chapter(s)	Lab Exercise & Important Dates Lab on Thursdays of the week
Jan 12&14	The Dynamic and Evolving Earth Jan. 14: Modified Schedule	1	No Lab
19	MLK Day- No Classes		
21	Earth's Materials: Minerals & Rocks	2	Ex.1. Review of Minerals & Rocks
26 & 28	Sedimentary Rocks: The Archives of Earth History	6	Ex. 5: Interpreting Sedimentary Rocks & Facies Relationships
Feb. 2&4	Rock, Time & Stratigraphy	5	Ex. 2 & 3 – Physical Correlation
9 & 11	The Plate Tectonics	3	Ex. 8: Plate Tectonics
16 & 18	Hour Exam 1 (2/18/09) Fossils	5	Lab Quiz on 2/28/09
23 & 25	Evolution – Theory and Evidence	7	Ex. 9 & 10: Fossils
Mar 2&4	Spring Break – No Classes		No Labs (Spring Break)
9 & 11	Geologic Time – Relative Ages	4	Ex. 6: Relative Dating
16 & 18	Geologic Time-Absolute Ages	4	Ex. 15: Interpreting Geologic Maps
23 & 25	Deformation of Crust -Folding	Lab Exer 6	Field Trip (3/25/09)-Farrandsville
30 7 Apr 1	Deformation of Crust –Faulting	Lab Exer 6	Ex. 18-20: Geology of Appalachian
6 & 8	The Precambrian History of Earth Hour Exam 2 (4/8/09)	8-13	Day-long Field Trip on Apr. 11 (in lieu of lab on Apr. 8)
13 & 17	The Paleozoic History of Earth	8-13	No class or lab on 17th April
20 & 22	The Mesozoic History of Earth The Cenozoic History of Earth Climatic Fluctuations & Extinctions	16/17/18/19	Cumulative lab quiz on 4/22/09
May 1	Final Exam (cumulative) on 5/1/09		Exam time: 10:00-11:50 am