

LOCK HAVEN UNIVERSITY
HONR 115 – Earth Resources & Environment
Fall 2008

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Homepage: <http://www.lhup.edu/mkhalequ/> (study guides for tests/quizzes, instructions for term paper, and rubric for peer-evaluation of oral presentations will be posted online)

Lecture: Mondays 2:30-4:20 pm (Ulmer 101), and **Lab:** Wednesdays 2:30-4:20 pm (Ulmer 102)

Textbook: Pipkin, B.W., Trent, D.D., Hazlett, R., and Bierman, P. Geology and the Environment (Fifth edition), 2008: Thomposn (Brooks/Cole) publishers. ISBN: 13: 978-0-495-11305-8

Laboratory: Handout will be provided before each week's lab.

Grading:
 Three hour exams = 45% (15% x 3)
 Lab exercises/homework = 15%
 Three lab quizzes = 15% (5% x 3)
 Term paper and oral presentation = 25% (15% + 10%)
 Read the instructions for your term paper on my website

Note: Attendance in lecture & labs is mandatory. In order to do well in the lab you will have to know both lecture and lab materials. You will be **expected** to come prepared (i.e. you will have to read the pertinent chapter in the textbook, books and articles kept on reserve, and lab exercises provided) **before** coming to the class. For most parts, the lecture and lab materials will be closely tied to each other. If you are unable to attend exams/quizzes, you **must** make arrangements with me **prior** to the exams/quizzes - **THERE WILL BE NO EXEPTIONS**. You may expect additional reading and homework assignments that involve the use of supplemental resources (including the CD in the textbook) and the Internet.

Week of	Lecture Topics (Tuesdays)	Reading (chapters)	Laboratory (Thursdays)
Aug. 25 & 27	Overview of Earth Resources & Environment; Minerals & Rocks	1 & 2 + Appendix 2	No lab this week. Lecture on Thurs.
Sept. 3			Minerals
8 & 10	Rocks	2	Igneous & metamorphic rocks
15 & 17	Plate Tectonics & origin of earth resources	3/4/5	Sedimentary Rocks (Modified Sch)
22 & 24	Hour Exam #1 (9/22/08)		Lab Quiz (9/24/08)
29& Oct.1	Soils	6 + Reserve	Physical & eng. prop. of soils Nutrients in soils
7 & 8	Topographic Maps (Tuesday)	6+ Reserve	Topo map of Lock Haven and GPS
13 & 15	Geologic maps and cross sections	Reserve + Appendix 4	Topo model of LHU and preparing topo maps
20 & 22	Surface Water: Use and Abuse	8/9	Lab Quiz (10/22/08)
27& 29	Ground Water Resource and Pollution	8/9	Watershed and water flow
Nov.3 & 5	Hour Exam #2 (11/4/08)		Water quality; geologic maps
10 & 12	The Abundant & Scarce Metals Agricultural, Chemical Minerals & Industrial Minerals	13	Lab Quiz (11/12/08)
17 & 19	The Energy and alternative energy	14	Submission and oral presentation of term papers (11/19/08)
24	Geochemistry and Environmental Health & Human Impact on Atmosphere	Reserve	No labs this week-Thanksgiving
Dec. 1 & 3			Submission and oral presentation of term papers (12/1/08 & 12/03/08)
Dec. 9	Hour Exam #3 (12/9/08) at 2:00-3:50 pm		

