

LOCK HAVEN UNIVERSITY
GEOS 101 – Earth Science, Summer Session II, 2009

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Homepage: <http://www.lhup.edu/mkhalequ> (study guides for tests will be posted online)

Lecture: M-T-W-R: 8:00-10:45 am, Ulmer 101 (Lecture) & Ulmer 102 (Labs)

Textbook: Tarbuck, E. J., and Lutgens, F. K., *Earth Science*, 12th edition, Prentice-Hall, Inc.

Lab Manual: Tarbuck, E. J., Lutgens, F. K., and Pinkze, K. G., *Application and Investigations in Earth Science*, 6th edition, Prentice-Hall, Inc.

Grading: Four hour exams = 60% (15% x 4)

Labs & quizzes = 40% of the total grade

Extra Credit: Attendance and thought-provoking questions = up to 2% of the total grade

Note: The lecture and lab materials will be closely tied to each other. In order to do well in the lab you will have to know both lecture and lab materials. The lab grade will be based on weekly assignments and short 5-point lab quizzes that will be given at the beginning of each week's lab. You will be **expected** to read the pertinent text chapter(s) and lab exercise before coming to the lecture/lab.

Date	Lecture Topic and Important Dates	Textbook chapter(s)	Lab Exercise & Number
June 22	Introduction/the Universe/Solar System	24/21/22/1	
23			Patterns in the Solar System #18/ Terrestrial planets #20;
24	Constellation, Zodiacs, Planets position The Moon & Sun/ Light & Astronomical tools	21/23	
25	Hour Exam #1		Planets Position #19 The Moon & the Sun #21
29	The atmosphere: composition & structure. Temperature & Moisture	16/17	
30			Earth-Sun Relations #12 Atmospheric Moisture, Pressure, and Wind #14
July 1	Pressure & Wind ; Weather patterns & severe storms; Global climate change	18/19/20	
2	Hour Exam #2		Atmospheric Moisture, Pressure, and Wind #14 (cont'd); Air Mass, Cyclones & Weather Maps #15
6	Minerals: building blocks of rocks Rocks: Igneous & Sedimentary Rocks	2/3	
7			The Study of Minerals #1 Common Rocks #2
8	Rocks: Metamorphic Rocks Topographic maps	3 Lab Exer. 3	
9			Intro to Topographic Maps #3
13	Running water & Groundwater	5	
14	Hour Exam #3		Running Water & Groundwater #4
15	Plate tectonics	7	
16			Dynamic Ocean Floor #10
20	The ocean floor & the dynamic ocean	13/15	
21			Intro to Oceanography #9 Waves, Currents & Tides #11
22	Ocean water and ocean life	14/15	
23	Hour Exam #4		