

**Spring Semester 2009**  
**Geology 111G, Sec. MO2      Survey of Geology**

**Lecture:** Tues & Thurs. 10:20 - 11:35pm, Hardman Hall, Rm. 104

**Lab:** You must enroll in a Lab (GEOL 111G M1A-M1T). Labs meet once a week starting the week of January 26th, 2009 in Breland Hall, Rm. 189.

**Instructor:** Dr. Katherine A. Giles

Office: Breland Hall, Rm. 122

Phone: 646-2033      e-mail: kgiles@nmsu.edu

Office Hours: TU, TH 9:00-10:00AM, Wed. 10:00-12:00PM, or by appointment.

Web site: <http://www.nmsu.edu/~geology/giles/kgiles.html>

Click on [Survey of Geology \(Geol. 111G\)](#) listed under courses. This site contains the syllabus for this course and examples of old exams. The syllabus, old exams and lecture power points are also available on WebCT.

**Texts:**

Not required      1. [Exploring Geology](#) (2008), Reynolds et al.

Required      2. [Physical Geology Laboratory Manual, 3rd Ed.](#) (2007) V. Harder

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**Course Grading**

Your grade for this course will be based on the number of points you earn out of a possible 400 points derived from the following:

3 Lecture Exams (100 pts each)	300 pts
Lab Homework, Quizzes, & Exams	100 pts (total lab pts. normalized to 100 pts and worth 25% of grade)
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TOTAL	400 pts

**Lecture Exams:** Lecture exams account for 75% of your final course grade. Three lecture exams and a final will be given on the dates indicated on the syllabus. At the end of the semester, I will drop the lowest lecture exam score when calculating your grade. *Note: You must take the final exam and the final exam score can not be dropped.*

**Lab Performance:** You must pass the lab (with 50% or more of the total lab points) in order to pass the class no matter what your lecture grade is.

**S/U Credit:** A letter grade of "C-" or higher is considered satisfactory for those of you taking the course S/U.

**STUDENTS WITH DISABILITIES:** If you have, or believe you may have, a disability that interferes with your performance as a student in this class, you are encouraged for academic reasons to discuss this on a confidential basis with Dr. Giles and the Services for Students with Disabilities (SSD) Office located at Corbett Center, Room 244 [Phone: 646-6840; TTY: 646-1918]. If you have a condition that may affect your ability to exit from the premises in case of emergency, you are urged, for safety reasons, to notify any of the above persons. Feel free to call Jerry Nevarez, Director of Institutional Equity, at 575-646-3635 with any questions you may have about NMSU's Non-Discrimination Policy and complaints of discrimination, including sexual harassment.

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**Extra Credit:** Students may earn up to 10 points of extra credit by submitting a 2-page paper summarizing a current event that relates to geology. Papers must be submitted to Dr. Giles by April 30, 2009.

**Plagiarism:** Refer to the NMSU definition and policy on plagiarism at:  
<http://www.nmsu.edu/%7Evpsa/SCOC/misconduct.html>.

## Tentative Course Schedule

<u>Date</u>	<u>Lecture Topic</u>	<u>Text</u>	<u>Lab Topic</u>
Jan. 15	Introduction to the course		No Lab
Jan. 20	Plate Tectonics	Chapt. 3	No Lab
Jan. 22	Atomic structure of elements	Chapt. 4	
Jan. 27	Rock forming minerals	Chapt. 4	Lab 1
Jan. 29	Formation of igneous rocks	Chapt. 5	
Feb. 3	Plutonic rocks	Chapt. 5	Lab 2
Feb. 5	Volcanic rocks	Chapt. 5, 6	
Feb. 10	Igneous rocks and plate tectonics	Chapt. 4	Lab 3 Part 1
Feb. 12	<b>LECTURE EXAM 1</b> <i>Plate Tectonics, Elements, Minerals, Igneous Rocks</i>		
Feb. 17	Weathering/Soil formation	Chapt. 7, 15	Lab 3 Part 2
Feb. 19	Sedimentary rocks	Chapt. 7	
Feb. 24	Sedimentary rocks	Chapt. 7	Lab 4
Feb. 26	Geologic time - relative	Chapt. 9	
March 3	Metamorphism	Chapt. 8	Lab 5
March 5	Metamorphism	Chapt. 8	
March 10	Metamorphic rocks	Chapt. 8	Lab 6 Part 1
March 12	<b>LECTURE EXAM 2</b> <i>Sedimentary and Metamorphic Rocks, &amp; Relative Geologic Time</i>		
March 17	Geologic time - absolute	Chapt. 9	Lab 6 Part 2
March 19	Rock deformation	Chapt. 8	
March 24	Spring Break		No Lab
March 26	Spring Break		
March 31	Rock deformation	Chapt. 8	Lab 7 Part 1
April 2	Rock deformation	Chapt. 8	
April 7	Earthquakes	Chapt. 12	Lab 7 Part 2
April 9	Earthquakes	Chapt. 12	
April 14	<b>LECTURE EXAM 3</b> <i>Absolute Geologic Time, Deformation &amp; Earthquakes</i>		Lab 8
April 16	Mineral resources	Chapt. 18	
April 21	Fossil fuels	Chapt. 18	Lab Final
April 23	Fossil fuels	Chapt. 18	
April 28	Groundwater	Chapt. 17	
April 30	Groundwater	Chapt. 17	
<b>May 7</b>	<b>FINAL LECTURE EXAM 4</b> <i>Natural Resources</i> <b>Thursday 10:30am - 12:30pm Hardman Hall Rm. 104</b>		