

# ERTH 107 – Geology of National Parks

## Fall 2008

**Instructor:** Dr. Sarah Hanson

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**Office Hours:** MWF 2:00-3:00

**Optional text:** Geology of National Parks; 6<sup>th</sup> ed. By: Harris, Tuttle & Tuttle

### Lecture Schedule

<u>Date</u>	<u>Topic</u>	<u>Reading</u>
8-25	Introduction	
8-27	NPS System & Geologic Time	
8-28	Rocks, Minerals & the Earth's interior	
9-1	<b>MLK Day – Long weekend already!!</b>	
9-3	Plate Tectonics / Geologic history of the US	
9-4	<b>Exam 1</b>	
9-8	Colorado Plateau	
9-10	Grand Canyon	Ch. 1
9-11	Bryce Canyon & Zion	Ch. 2, 3
9-15	Capitol Reef & Mesa Verde	Ch.4, 7
9-17	Canyonlands & Arches	Ch. 5, 6
9-18	Petrified Forest	Ch. 8
9-22	Badlands & Theodore Roosevelt	Ch. 9, 10
9-24	<b>Exam 2</b>	
9-25	Great Sand Dunes & White Sands NM	Ch. 12
9-29	Indiana Dunes & Sleeping Bear Dunes	
10-1	Mammoth Cave & Carlsbad Caverns	Ch. 14, 16
10-2	Guadalupe, Everglades, Bisc. & Tort.	Ch. 17, 19, 20, 21
10-6	<b>Instructor at GSA conference – No Class</b>	
10-8	<b>Instructor at GSA conference – No Class</b>	
10-9	<b>Instructor at GSA conference – No Class</b>	
10-13	<b>Fall Break – No Class!!!</b>	
10-15	Isle Royal, Voyagers & Acadia	Ch. 22, 23, 24
10-16	Rocky Mountain & Waterton-Glacier	Ch. 25, 26
10-20	Yosemite & Alaska National Parks	Ch. 28, 31-34
10-22	<b>Exam 3</b>	
10-23	Mount Rainier & Mount St. Helens	Ch. 35
10-27	Crater Lake, Lassen	Ch. 26, 37
10-29	Alaska National Parks	Ch.38, 39
10-30	Hawaii Volcanoes & Haleakala	Ch. 40, 41
11-3	Yellowstone & Devils Tower NM	Ch. 43
11-5	Sunset Crater & Capulin	
11-6	Bandalier & Chiricahua	
11-10	<b>Exam 4</b>	
11-12	Sequoia & Kings Canyon, Great Basin	Ch. 49, 47
11-13	<b>No Class</b> ERTH 301 Field Trip	Ch. 45
11-17	Saguaro & Joshua Tree	Ch. 46
11-19	Death Valley	Ch. 48
11-20	Grand Teton & Rocky Mountain (cont)	Ch. 44, 25
11-24	Big Bend & Mt Rushmore	
11-26	<b>Turkey Day Break – No Class!!!</b>	
11-27	<b>Turkey Day Break – No Class!!!</b>	
12-1	Hot Springs, & Cuyahoga	Ch. 52, 53, 13
12-3	Shenandoah & Great Smoky Mountain	Ch. 54, 55
12-4	Review for exam	

**Final Exam (Exam 5)** – Friday Wed December 10<sup>th</sup>, 8:30 am

## Lab Schedule

<u>Date</u>	<u>Topic</u>
8-26	No Lab
9-2	Plate Tectonics
9-9	Geologic Provinces
9-16	Minerals
9-23	Sedimentary Rocks
9-30	Topographic Maps
10-7	<b>Lab Midterm Exam</b>
10-14	<b>Fall Break - No Lab!! !</b>
10-21	Glaciers
10-28	Igneous Rocks
11-4	Metamorphic Rocks
11-11	Structural Geology
11-18	Geologic Maps
11-25	Geologic Maps
12-2	<b>Lab Final Exam</b>

## Class Policies & Procedures

### Attendance:

It is imperative that you attend all scheduled classes and labs. Attendance will not be taken in lectures. However, it is **your** responsibility to get any homework assignments which may have been given in class and the lecture material (some of which may not be covered in the text). Attendance **will** be taken in lab. If you miss a lab, you will be allowed to make up the material if you have a verified excuse (i.e. substantiated medical or family emergency). The missed assignment must be turned within 1 week to receive full credit for the exercise.

### Exams:

All exams will be given according to the schedule on the first page. You **MUST** notify me in advance if you are going to miss an exam. Make-up exams will be given **ONLY** if you have a substantiated emergency (i.e. medical emergency, death in family etc.).

### Grades:

#### Lecture:

Exam 1	10%
Exams 2-5 @ 15% each	60%

#### Lab:

Lab exercise & HW	10%
2 exams @ 10% each	20%

If necessary, I will adjust the grade scale for each exam *upwards* to a class mean of 75%. No extra credit assignments will be given. Final grades will be calculated as follows:

93 – 100%	A
90 – 92%	A-
87 – 89 %	B+
83 – 88%	B
80 – 82%	B-
77 – 79%	C+
73 – 76%	C
70 – 72%	C-
67 – 69%	D+
63 – 66%	D
60 – 62%	D-
Below 60%	F