

SYLLABUS

Spring, 2006

Course Geology 101 - Physical Geology **Instructor** Dr. William Pirkle **Office** 225 Sciences Bldg.

Meeting Schedule
Lecture - 10:50-12:05 TTh Rm. 200 Sciences Bldg.
Lab. 001 - 1:40-4:20 T Rm. 212 Sciences Bldg.
Lab. 002 - 1:40-4:20 Th Rm. 212 Sciences Bldg.

Conference Times
9:30-11:00 MW; 12:15-1:15 Th
Other times by appointment
Email Pirkle@sc.edu

Text
Lecture - *Earth*, 8th edition, by Tarbuck and Lutgens
Laboratory - *Laboratory Manual in Physical Geology*, 6th edition, edited by Busch

Objective
To have you gain a system of knowledge regarding geological processes that operate on the earth's surface or within its interior; to have you obtain an understanding and an appreciation of the materials which compose the earth and how they were formed; and to have you work successfully within this system of knowledge using critical reasoning to solve problems.

Assessment Methods
You will demonstrate your understanding of the material and your ability to successfully operate within this system of knowledge by written examinations in lecture and by problem solving written and oral activities in laboratory.

Grading Policy
Lecture - 75%
Three exams (**Feb. 7, Mar. 2, Mar. 30**)
Final exam (**Thursday, Apr. 27, 11:00 a.m.**)
Each exam and final count equally
Laboratory - 25%

Book Review
A critical review of a book from the approved list may be substituted for the lowest grade of Exam I, II or III. Only one review may be done. The book review deadline is **10:50 a.m. Tuesday, April 18, 2006.**

Extra Credit Opportunities
A total of 25 points may be earned for various extra credit activities. Extra credit points are added to your final exam grade. Extra credit activities will be announced in class and on Blackboard. Extra credit assignments typically are due the next class period after the scheduled activity.

Attendance
Regular attendance is vital to fulfilling your responsibilities in this class. There will be no make up classes or laboratories. Arrangements for work missed due to an excused absence must be made within one week of the absence. Documentation of extenuating circumstances is required. Make up quizzes or exams may be of different format than scheduled quizzes or exams.

Late Assignments
Late assignments typically are lowered one letter grade per day late.

Classroom Department
Please make every effort to be on time to class. Late arrivals disrupt class and make it difficult for others to hear while entering. Turn off cell phones while in class or lab. No eating in class or lab. Please be courteous to and considerate of other class members.

Disability Policy
If you have a physical, psychological, and/or learning disability that might affect your performance in this class please contact the Office of Disability Services as soon as possible. The Disability Services Office will determine appropriate accommodations based on medical documentation.

**Tentative Schedule
Geology 101
Spring, 2006**

Assignments in Tarbuck and Lutgens, 8th Edition, *Earth, an Introduction to Physical Geology*, to be read before and after class.

	DATE	ASSIGNMENTS	TEXT CHAPTERS
Jan.	10	Introduction	1
	12	Plate Tectonics	2
	17	Plate Tectonics	2
	19	Matter & Minerals	3
	24	Minerals	3
	26	Igneous Activity	5
	31	Igneous Activity (continued); Igneous Rocks	5; 4
Feb	2	Igneous Rocks	4
	7	Exam I (Chapters 1-5)	
	9	Weathering and Soils	6
	14	Sedimentary Rocks	7
	16	Metamorphism & Metamorphic Rocks	8
	21	Geologic Time	9
	23	Mass Wasting	15
	28	Running Water	16
Mar	2	Exam II (Chapters 6-9 & 15)	
	7	Spring Break	
	9	Spring Break	
	14	Running Water (continued)	16
	16	Groundwater; Glaciers	17; 18
	21	Glaciers (continued); Deserts & Wind	18; 19
	23	Shorelines	20
	28	Earthquakes	11
	30	Exam III (Chapters 16-20)	
Apr	4	Earthquakes (continued); Earth's Interior	11; 12
	6	Crustal Deformation	10
	11	Ocean Floor & Sea Floor Spreading	13
	13	Mountain Building & Evolution of Continents	14
	18	Mountain Building & Evolution of Continents	14
	20	Mountain Building & Evolution of Continents	14

Final Exam 11:00 a.m. Thursday, Apr. 27, Room 200.

Geology 101-001 Laboratory
Spring, 2005
Tentative Schedule

Laboratory Manual: *Laboratory Manual in Physical Geology*, 6th edition, edited by Busch

Date	Assignment	Lab.
Manual Chapter		
Jan. 18	Minerals I	3
25	Minerals II	3
Feb. 1	Quiz I - Minerals	
	Igneous Rocks	5
8	<u>Field Trip, Igneous Rocks - Clouds Creek</u>	5
15	Sedimentary & Metamorphic Rocks	6; 7
22	<u>Field Trip, Sedimentary Rocks - Aiken County Stratigraphy</u>	
Mar. 1	Quiz II - Rocks	
	Topographic Maps	9
8	Spring Break	
15	Running Water; Ground Water	11; 12
22	Glaciers; Deserts	13; 14
29	Shorelines	15
Apr. 5	Quiz III - Surface Processes	
12	Plate Tectonics/Isostasy	1C, 1D, 2D
19	<u>Field Trip - Martin Marietta Quarry, Augusta</u>	

Grading

Mineral Quiz	= 20%
Rock Quiz	= 20%
Surf. Proc. Quiz	= 20%
Field Trips	= 20% (Cloud's Creek = 5%; Aiken Co. = 10%; Martin Marietta = 5%)
Daily Work	= 20%

Total	100%

Daily work and field trip reports will be group problem solving activities. The purpose is to foster among you an active interest in each other's success and to give you the opportunity to work together with other classmates you may not know. Papers will be graded on completeness, thoroughness, correctness, creativity, and neatness. Laboratory counts 25% of the overall course grade.

Lab Policies: Policies regarding attendance, make-up work and disability needs are the same in lab as in lecture. You are responsible for all laboratory work. There will be no make up laboratories. Arrangements to make up work missed due to an excused absence must be made within one week of the absence. Documentation of extenuating circumstances is required.

Field Trips: Wear outdoor clothing. Long pants and good walking shoes are recommended. Do not wear shoes with leather soles. Bring insect repellent on warm days. Transportation is in USCA vehicles only. Field trips will go rain or shine.

**Geology 101-002 Laboratory
Spring, 2006
Tentative Schedule**

Laboratory Manual: *Laboratory Manual in Physical Geology*, 7th edition, edited by Busch

Date	Assignment	Lab.
Manual Chapter		
Jan. 19	Minerals I	3
26	Minerals II	3
Feb. 2	Quiz I - Minerals	
	Igneous Rocks	5
9	<u>Field Trip, Igneous Rocks - Clouds Creek</u>	5
16	Sedimentary & Metamorphic Rocks	6; 7
23	<u>Field Trip, Sedimentary Rocks - Aiken County Stratigraphy</u>	
Mar. 2	Quiz II - Rocks	
	Topographic Maps	9
9	Spring Break	
16	Running Water; Ground Water	11; 12
23	Glaciers; Deserts	13; 14
30	Shorelines	15
Apr. 6	Quiz III - Surface Processes	
13	<u>Field Trip - Martin Marietta Quarry, Augusta</u>	
20	Plate Tectonics/Isostasy	1C, 1D, 2D

Grading

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Rock Quiz	= 20%
Surf. Proc. Quiz	= 20%
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