

SYLLABUS

Spring, 2003

Course	Geology 101 - Physical Geology
Instructor	Dr. William Pirkle
Office	225 Sciences Building
Meeting Schedule	Lecture - 10:50-12:05 TTH Rm. 301 Sciences Bldg. Lab. 003 - 1:40-4:20 T Rm. 212 Sciences Bldg. Lab. 004 - 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 - <i>Earth</i> , 7th edition, by Tarbuck and Lutgens Laboratory - <i>Laboratory Manual in Physical Geology</i> , 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	Quiz I, II, III, IV, V = 50% (30 minute quizzes) Final Exam (Thursday, May 1, 11:00 a.m.) = 25% Laboratory = 25%
	A critical review of a book from the approved list may be substituted for the lowest grade of Quiz I, II, III, IV or V. Only one review may be done. The book review deadline is 10:50 a.m. Tuesday, April 22, 2002.
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.
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, 2003**

Assignments in Tarbuck and Lutgens, 7th Edition, *Earth, an Introduction to Physical Geology*, to be read before and after class.

	DATE	ASSIGNMENTS	TEXT CHAPTERS
Jan.	9	Introduction	1
	14	Matter and Minerals	2
	16	Minerals	2
	21	Volcanic Activity	4
	23	Volcanic Activity	4
	28	Quiz I ; Igneous Rocks	3
Feb	1	Igneous Rocks	3
	4	Weathering and Soils	5
	6	Sedimentary Rocks	6
	11	Metamorphic Rocks	7
	13	Quiz II ; Geologic Time	8
	18	Mass Wasting	9
	20	Running Water	10
	25	Groundwater	11
	27	Groundwater	11
Mar	4	Quiz III ; Glaciers	12
	6	Glaciers	12
	11	Spring Break	
	13	Spring Break	
	18	Deserts and Wind	13
	20	Shorelines	14
	25	Shorelines	14
	27	Quiz IV ; Earthquakes	16
Apr	1	Earthquakes	16
	3	Earth's Interior	17
	8	Crustal Deformation	15
	10	No class	
	15	Ocean Floor and Sea Floor Spreading	18
	17	Quiz V ; Plate Tectonics	19
	22	Mountain Building and Evolution of Continents	20
	24	Mountain Building and Evolution of Continents	20

Final Exam 11:00 a.m. Thursday, May 1, Room 301.

Geology 101-003 Laboratory
Spring, 2003
Tentative Schedule

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

Date	Assignment	Lab.
Manual Chapter		
Jan. 14	Minerals I	3
21	Minerals II	3
28	Quiz I - Minerals	
	Igneous Rocks	5
Feb. 4	<u>Field Trip, Igneous Rocks - Clouds Creek</u>	5
11	Sedimentary & Metamorphic Rocks	6,7
18	<u>Field Trip, Sedimentary Rocks - Aiken County Stratigraphy</u>	
25	Quiz II - Rocks	
	Topographic Maps	9
Mar. 4	Running Water	11
	Ground Water	12
11	Spring Break	
18	Deserts	14
	Glaciers	13
25	Shorelines	15
Apr. 1	Quiz III - Surface Processes	
8	No lab	
15	<u>Field Trip - Martin Marietta Quarry, Augusta</u>	
22	Plate Tectonics/Isostasy	1C, 1D, 2D

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 and creativity. 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 vans only. Field trips will go rain or shine.

Geology 101-004 Laboratory
Spring, 2003
Tentative Schedule

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

Date	Assignment	Lab.
Manual Chapter		
Jan. 16	Minerals I	3
23	Minerals II	3
30	Quiz I - Minerals	
	Igneous Rocks	5
Feb. 6	<u>Field Trip, Igneous Rocks - Clouds Creek</u>	5
13	Sedimentary & Metamorphic Rocks	6,7
20	<u>Field Trip, Sedimentary Rocks - Aiken County Stratigraphy</u>	
27	Quiz II - Rocks	
	Topographic Maps	9
Mar. 6	Running Water	11
	Ground Water	12
13	Spring Break	
20	Deserts	14
	Glaciers	13
27	Shorelines	15
Apr. 3	Quiz III - Surface Processes	
10	No lab	
17	<u>Field Trip - Martin Marietta Quarry, Augusta</u>	
24	Plate Tectonics/Isostasy	1C, 1D, 2D

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