

AGLY 201: Integrated Earth Science --- Tentative Syllabus
4 credit hours; Spring, 2007.

Instructor: Karin L. Willoughby; email: karinw@usca.edu ; office: 207 Sciences
Office Hours: Mon. 12 – 12:45 pm; Tue. and Thur. @12:10 – 12:45 pm; Wed. @11:50
– 12:30 pm; Wed. @2 – 2:30 pm. Other times by appt. only.

Time: Lecture - T-Th, 10:50 – 12:05 pm; Labs – Section 001, M 1 pm – 3:40 pm;
Section 002, W 2:30 – 5:10 pm; Section 003, W 9 am – 11:40 pm.

Required materials: **Student Responder** (purchase at Bookstore); Earth Science Today by Murphy and Nance; Integrated Earth Science by GEOS/Prentice-Hall.

This course explores a holistic view of the earth. The atmosphere, lithosphere (solid earth), hydrosphere (oceans, surface fresh water and groundwater) and the solar system will be studied as specialized systems with identifiable internal compositions, natural processes and behavior patterns. The interactions among these systems and the biosphere are also investigated. Examples of such interactions include tides, waves, weather, climate, global change, plate tectonics and energy resources.

Students are expected to acquire and demonstrate knowledge about what these systems are, how they work and how they interact; and build individual ability to understand the implications of earth systems' effects on the future of earth and human beings. Additional notes are available on the USCA Biology and Geology Department website: (<http://www.usca.edu/biogeol/>). Click on “Student Information” at upper right of page and then click on “AGLY 201 Lecture Notes.”

Grading: Lecture -- 75% of class grade

Maximum possible points: 240 points (120 pts. each) on 2 exams
75 pts for in class quizzes (**requires responder**)
160 pts on homework questions
120 pts Final exam
100 pts Semester project
25 pts Oral presentation
30 pts Class participation and attendance (**requires responder**)
750 pts Subtotal

Laboratory -- 25% of class grade*

Maximum possible points: 120 pts on 12 lab reports (10 points each)
120 pts (60 pts. each) on 2 quizzes
10 pts for oral lab report
250 pts Subtotal

Total possible points = 1000; Course grade will be based on: 900 or more points = A.
800 - 899.9 pts. = B. 700 - 799.9 pts. = C. 600 - 699.9 pts. = D Below 600 pts. = F.

* NOTE: Laboratory must be passed in order to pass course.

If you have a physical, psychological, and/or learning disability which might affect your performance in this class, please contact the Office of Disability Services 126A, B&E, (803)641-3609, as soon as possible. The Disability Services Office will determine appropriate accommodations based on medical documentation.

Punctual and regular attendance is essential for full participation in class. The instructor reserves the right to give an automatic “F” to any student that misses 25% or more of class (whether excused or unexcused). There will be no instructor directed make-ups available for missed labs. The student is responsible for obtaining notes to missed material. Make-up lecture exams or lab quizzes will be given only for emergencies considered acceptable to the University (death of close relative, religious holiday, jury duty, illness with Dr.’s excuse) and approved by the instructor. Only documented excuses will be considered for approval. **The student is still responsible for missed material, even with excuse.**

As provided in the Student Handbook, cell phones may not be turned on or used in the classroom without the instructor’s permission. **Any student using a cell phone with out permission may be asked to leave class for the rest of that meeting time.**

<u>Tentative Schedule</u>		<u>Reading Assignment</u>
		<u>Text Chapter</u>
Jan.	16 Introduction	1
	18 Overview of Key Concepts	
	23 Start using student responders; Minerals	2
	25 Atoms, Minerals and Rocks	
	30 Rocks cont’d; HOMEWORK #1 DUE	
Feb.	1 Geologic Time	3
	6 Time cont’d	
	8 Time cont’d	
	13 Plate Tectonics; HW #2 DUE	4, 5
	15 Plate Tectonics cont’d	
	20 Mountains and Volcanoes	6
	22 Volcanoes cont’d; HW #3 DUE	
	27 Earth’s Interior	7
Mar.	1 EXAM #1(on Ch. 1-6)	
	6 Earth’s Interior cont’d	
	8 Oceans	8, 9

	12 – 16	SPRINGBREAK	
	20	Oceans cont'd; HW #4 DUE	
	22	Atmosphere and Weather	11, 12
	27	Weather cont'd; HW #5 DUE	
	29	Weather cont'd	
Apr.	3	Fresh Water; HW#6 DUE	10
	5	History of the Earth	13, 14
	10	EXAM #2 (Ch. 7 – 12)	
	12	Planets; HW #7 DUE	15
	17	Student Presentations	
	19	Student Presentations; DUE: Project Notebook	
	24	Planets and the Sun; HW#8 DUE	16
	26	Sun and Stars; Summary and Review	
May	8	11 am FINAL (Ch. 13 – 16 plus review questions)	

Tentative Lab Schedule

Jan.	17/22	Introductory Lab
	24/29	Study of Minerals
	31/Feb. 5	Library and Minerals
Feb.	7/12	Common Rocks
	14/19	Determining Geologic Ages
	21/26	Earthquakes and Earth's Interior
	28/Mar. 5	Rocks and Minerals QUIZ #1
Mar.	7/19	Waves, Currents and Tides
	12 – 14	SPRINGBREAK
	21/26	Atmospheric Moisture, Pressure and Wind
	28/Apr. 2	Air Masses, the Middle-Latitude Cyclone and Weather Maps
Apr.	4/ 9	Weather
	11/16	Planetarium; Weather QUIZ #2
	18/23	Student Presentations
	25/30	Patterns in the Solar System/The Moon and Sun

NOTE: The student project and oral presentation requires thorough research on a selected topic. Topic choices need to be turned in during lab on the week of Feb. 5 (Feb. 5 or 7). The project is a notebook containing several written and visual products. The notebook is DUE April 19. The oral presentation must be about 7-9 minutes long and discuss in detail one or more facets of the major research topic. Neither "wikipedia" nor "genesis.org." may be cited for any research for this course.