

GEOLOGY 201 – INTEGRATED EARTH SCIENCE

SUMMER I 2007

This Class and Lab are Cell-Free, Pager-Free Zones.

Dr. Allen Dennis

Office Hours: MTW, 2-3

224 Science; 641-3396 allend@usca.edu

Other times by appointment

Texts:

| | | | |
|------|----|--|---------|
| June | 4 | Plate Tectonics; Atomic structure, ions, bonding | 1, 4, 5 |
| | 5 | Minerals, Silicate minerals | 2.1 |
| | 6 | Igneous Rock; Bowen's Reaction Series | 2.2 |
| | 7 | Test 1; Topo Maps, Weathering | |
| | 11 | Earth's Interior and Quakes | 7 |
| | 12 | Sed Rocks* | 2.2 |
| | 13 | Metamorphic rocks* | |
| | 14 | Test 2; Streams and Water Cycle | 10 |
| | 18 | Groundwater | 10 |
| | 19 | Ocean, Atmospheric Currents | 8, 9 |
| | 20 | Weather | 11, 12 |
| | 21 | Test 3; Glaciation | |
| | 25 | Coastal Geology | |
| | 26 | Solar System and Meteorites | 15 |
| | 27 | Milankovitch Cycles | 16 |
| | 28 | Test 4; Fossils and Time | 14, 3 |
| July | 2 | Radiometric Dating | |
| | 3 | Earth's History | |

The Final Exam for this class is scheduled for Thursday 5 July at 8am.

My objective for this class is that you learn the physical processes responsible for our present understanding of the earth. Elements of chemistry, physics and mathematics are required, and will be used as we need them. Laboratory exercises stress practice of skills and methods of problem-solving that geologists use. Field trips are essential for making observations about the physical processes that are active on earth, and applying lecture material. Frequent tests will allow you to monitor your progress in mastering this system of applied knowledge. Materials are regularly posted in the documents links on Blackboard (<https://blackboard.sc.edu/webapps/login>), students are responsible for these materials.

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. Grading: There will be four 40 minute exams (40 pts) and a final (80 pts). The highest score of four 40 minute exams will be doubled. No exams will be made up, rescheduled or dropped.

Laboratory: 10 pts/ex may be scored in the Laboratory. Scores will be based on written lab exercises.

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| 200 | Four exams + double the highest exam | ≈45% |
| 80 | Final (Thursday 5 July at 8 am) | ≈18% |
| <u>160</u> | Lab Grade | ≈36% |
| 440 | Total Possible Points | |

Your grade will be assigned according to your total points: A > 396; B > 352; C > 308; D > 264; F < 264.

* Field trip in USCA vehicles. Come in comfortable walking shoes and play clothes.