

## **GEOLOGY 1095: EARTH SYSTEMS LABORATORY**

This course is the mandatory 1-credit laboratory designed to accompany the online Geology 1090 course. You must enroll in Geology 1090 and 1095 concurrently. Both courses are required if you are fulfilling a general education requirement.

This lab course is designed to reinforce the geologic principles and scientific concepts introduced in the accompanying course. Topics covered include minerals and rocks, running water, topographic maps, earthquakes, and geologic time.

Course objectives:

Essential objective: Gaining factual knowledge.

Important objectives: Learning fundamental principles, generalizations, or theories; and gaining a broader understanding and appreciation of science.

This is an independent study course. If you have any questions or problems, please contact your instructor by email at [finstick@suu.edu](mailto:finstick@suu.edu). Use "GEOL 1095" as the subject of your email. Emails with no subject will be automatically deleted. Your instructor will help you in any way that she can, but remember, this is an independent study course and will require a commitment from you to keep up with your textbook readings and lab assignments. The best way to ensure success is to begin at once, and set a goal to follow the recommended schedule. You must complete the course within the semester you register. There will be **NO** Incompletes given, with the possible exception of a lengthy medical emergency.

Recommended Schedule: By following this schedule, you will only need to complete one lab per week, skipping those weeks when your 1<sup>st</sup> Project is due for Geology 1090 and when you take your Midterm Exam for Geology 1090. In addition, you will have completed the lab portion of the course, including the final exam, three weeks before the end of the term, allowing you that extra time at the end of the semester to complete work on your 2<sup>nd</sup> Project for Geology 1090 as well as study for your Geology 1090 Final Exam.

Schedule for fall and spring semesters:

Week 1: Lab #1 Minerals

Week 2: Lab #2 Igneous Rocks

Week 3: (1<sup>st</sup> Project due for Geol 1090)

Week 4: Lab #3 Sedimentary Rocks

Week 5: Lab #4 Metamorphic Rocks

Week 6: Lab #5 Running Water, Part 1

Week 7: Lab #6 Running Water, Part 2

Week 8: (take Midterm Exam for Geol 1090)

Week 9: Lab #7 Topographic Maps

Week 10: Lab #8 Earthquakes, Part 1

Week 11: Lab #9 Earthquakes, Part 2

Week 12: Lab #10 Geologic Time

Week 13: take Lab Final Exam

Textbook: "Essentials of Geology" by Lutgens & Tarbuck (11th Edition), Prentice-Hall, 2012 (ISBN 9780321714725). The textbook is available through the SUU Bookstore. Instructions on obtaining the textbook are available from the Continuing Education Office, or order directly from the bookstore by contacting Ms. Delene Small at 435-865-8155 or via email at [small@suu.edu](mailto:small@suu.edu). Since you will not have the benefit of meeting with your instructor on a regular basis, your textbook was chosen for its clarity of language and excellent illustrations and photographs.

Lab Kit: The lab materials for the course include a mineral and rock identification kit, and a topographic map. These materials are available through the SUU Bookstore. Request them when you request your textbook. Be sure you receive both the mineral and rock identification kit and the topographic map. **Note: I have placed a copy of the topographic map on Reserve at SUU's Gerald R. Sherratt Library.** This means that if you can get to campus to use the map at the library, you don't have to buy a copy of the map. You MUST have your SUU ID card to check out materials from the reserve book room.

The chapter references for each lab are listed at the beginning of the lab. Read the references carefully before beginning the lab. In addition, read through the entire lab before beginning work so that you know what is required.

Grading: This course requires the completion of 10 lab assignments and a final exam. Each lab is worth 25 points and the final exam is worth 50 points, for a total of 300 points. All lab assignments must be completed prior to taking the required final exam.

For each lab, read and complete the assignment in Lab Exercises and Instructions which you will find in Modules. Then take the corresponding online quiz which is also located in Modules. You do not need to submit the lab exercises themselves. Your lab grade will be based on the results of the quizzes and the final exam. In addition, some labs require that you submit a Certificate of Completion to your instructor, which will also be part of your grade. The quizzes and final exam are not proctored, which means they are all open book, so everyone should do well in this lab course.

Final Exam: The mandatory final exam will also be found under the Assignments heading. Complete all 10 labs before taking the final exam. Please email your instructor (finstick@suu.edu) when you have completed all 10 labs and have taken the final exam so that your grade can be assigned, submitted, and recorded. **Be sure to use “GEOL 1095” in the subject line of your email; emails with no subject are automatically deleted.**

Grading:

93-100	A	73-77	C
90-93	A-	70-73	C-
87-90	B+	67-70	D+
83-87	B	63-67	D
80-83	B-	60-63	D-
77-80	C+	Less than 60	F

Good luck with the course.

About your instructor: Dr Finstick completed her graduate studies in geology at the University of Montana and the University of Hawaii. She consults as a professional geologist in Utah, Arizona, and Nevada, and has been adjunct faculty at Southern Utah University since 1996.

### Academic Honesty:

You are expected to be honest about doing all work on your own. Academic dishonesty is serious and will not be tolerated. Unacceptable behavior such as submitting someone else's work as your own, cheating on examinations and plagiarism can result in a variety of penalties such as resubmission of lessons, reexamination, and failure in the course. If you do not have a clear understanding of these expectations, contact the Distance Learning Office.

Special fees: There may be special fees associated with this course, including but not limited to the centralized College of Science \$2/credit hour fee to be used for the continuous improvement of the quality of our science courses. Check with the university registrar's office for further information on special fees.

### **American Disabilities Act Statement**

Students with medical, psychological, learning, or other disabilities desiring academic adjustments, accommodations, or auxiliary aids will need to contact Student Support Services, Room 205K, Sharwan Smith Center, phone number (435) 586-7848. Student Support Services determines eligibility for and authorizes the provisions of these services and aids.