

Division of: Natural Science
Department: Earth Science
Office Telephone Number: (714) 992-7446
Mail Box: Across from the Division Office

Prepared by: Marc Willis
Date: Spring 2011
Office Room Number: 629-S
E-mail address: mwillis@fullcoll.edu
Website: <http://staffwww.fullcoll.edu/mwillis>

Course Data:

Prefix No.	Course Title	Credit	Instructor	Sections	Meeting Times	Room
ESC 101L F	Earth Science Lab	1	Marc Willis	20831	W 1:00-3:50pm	629

Office Hours: See website listed above.

Corequisite(s): ESC 101 F Earth Science Survey

Catalog Course Description: *Earth Science Survey Laboratory – This laboratory compliments the ESC 101 F course. It includes the study of Earth materials, interpretation of topographic maps, exploring the concept of density, investigating weather, and observing astronomy. Field trips may be taken.*

I. Course Objectives:

The goal of the course is to teach students at a minimum to recognize and describe the following geologic concepts Plate Tectonics, Earths Interior, Rock Weathering, Coastal Processes, and Weather by performing laboratory exercises. In addition, the course will teach students to identify common rock forming minerals and major rock types. The student will come away from the course with the ability to identify current events in the context of Earth Science.

Students should be prepared to spend a minimum of two hours outside the classroom studying for each hour in the classroom in order to meet the course objectives.

II. Resources utilized:

- A. Required textbook (s) / workbook (s): *Fundamentals of Earth Science* by Lutgens & Tarbuck, 3rd edition or above editions, or instructor approved equivalent.
- B. Other required resources: Color pencils, pens, compass, protractor, and hand lens (or magnifying glass/card), will be needed for labs.

III. Evaluation methods to monitor progress toward attaining course objectives:

Laboratory Assignments	Rock and Mineral Examination
Quizzes	Cumulative Final Examination

V. Attendance

Attendance will be taken during each class. In order to get credit for attendance the student must be present for the entire class. A student will be dropped from the course if more than 2 labs are missed during the semester.

VI. Exams/Quizzes/Lab Assignments/Field Trip/Presentation

- A. Exams & Quizzes- typically will consist of rock and mineral identification, short answer, multiple choice, and fill in the blank.

- B. The final exam will cover materials discussed in lab. Students need to bring completed labs to the final incase the instructor allow them to be used.
- C. Laboratories will typically be in a short answer style. Work needs to be easily readable. Working with other students on assignments is allowed, but each student must turn in their own work (**i.e. in your own words - no reproduction of other students' work**). **No plagiarism (see Fullerton College Catalog for definition under Academic Honesty)**.
- D. Lab assignments are due at the end of each lab session **or** as specified at the time of the lab assignment. **There is no make-up for missed laboratories instead one lab will be dropped from the final total points.**
- E. **There will be a 10% grade reduction for every 24-hour period that an assignment is late (ex. 0 to 24hrs 10%, >24 to 48hrs 20%, ...)**
- F. Field trips will be taken as part of this laboratory. Students will be responsible for getting to and from the field location. Car pooling is encouraged. If a student does not have any means to get to the field trip location, then the instructor will assist in the student's transportation.

VII. Grading Policy

A. Points:

- 1. Labs: 20 pnts @ 13 labs (one lab will be dropped) = **240 pnts**
- 2. **Labs:** 30 pnts @ 2 labs = **60 pnts**
- 3. Rock and Mineral Exam: 20 pnts @ 1 = **20 pnts**
- 4. Final = **40 pnts**
Total = **360 pnts**

B. Grading Scale will be:

- | | | |
|-----------------|----------------|-------------------|
| A = 90% to 100% | C = 65% to 79% | F = Less than 54% |
| B = 80% to 89% | D = 55% to 64% | |

C. Class participation will be taken into account on borderline grades.

VIII. MyGateway

- A. Communications between instructor and student.
- B. Provide additional recourses for students
- C. Students will be required to log in to MyGateway as part of the course.

IX. Class Preparedness

- A. Taking notes is highly recommended.
- B. Bringing the text to class.
- C. Reading assignments need to be completed before laboratory.

X. Student Obligation

- A. Students will follow the policies and procedures of Fullerton College. Most of these policies and procedures can be found in the most recent Fullerton College Catalog. Students are responsible for knowing the current policies and procedures. Be particularly familiar with the plagiarism policies.

- B. For help outside of class contact me by the following means: telephone, e-mail campus mailbox, or office hours. Contact information can be found at the beginning of this document.
- C. Attend lab on a regular basis. Attending and being on time to laboratory indicates an interest in the subject and could have an effect on borderline grades.
- D. Unlike most college classes, this specific class will not count spelling against the student for work done during classroom time. This is due to the instructor being dyslexic. The exception to this policy is in cases where the instructor cannot decipher the word. Spelling will count on work done outside the classroom such as homework assignments.
- E. Extra credit is offered at the instructor's discretion.
- F. After an exam has been returned a student can requests a review of the exam answers during class. However, I will only discuss a student's specific grades outside the classroom.
- G. No disruptions will be tolerated in the classroom. A disruptive student will first receive a verbal warning, and if the problem persists then a student/teacher meeting will be held to resolve the issue. If the behavior does not improve, than the student will be dropped from the class. A disruption to the class can come in the following form, but is not limited to these forms: cell phone(s), beeper(s), talking to other students, talking to yourself, sleeping, moving around the classroom, and any activity that interferes with another students' ability to learn in class.

Fullerton College: Course Outline & Syllabus for Earth Science Survey Lab

Topic Outline for: Course No.: ESC 101L F Course Title: Earth Science Survey Laboratory

	Day	Dates	Topic(s)	Textbook Readings	Exercise
1	W	Jan. 19	Dimensions & Conversions	Ch Intro.	Lab #1 (Scales)
2	W	Jan. 26	Astronomy	Ch 15 & 16	Lab #2 (Astronomy)
3	W	Feb. 2	Mineral Identification	Ch 1	Lab #3 (Minerals)
4	W	Feb. 9	Rock Cycle, Density, & Tour	Ch 2	Lab #4 (Rock Cycle, Density, & Tour)
5	W	Feb. 16	Rock Identification	Ch 2	Lab #5 (Rocks)
6	W	Feb. 23	Rock and Mineral Exam Begin Weathering Rate Lab (3wks)	Ch 2	Lab # 6 (Weathering) 30pnts
7	W	Mar. 2	Plate Tectonics	Ch 5	Lab #7 (Plates)
8	W	Mar. 9	Topographic Maps		Lab #11 (Topo Maps)
9	W	Mar. 16	Weathering Lab Due		
10	W	Mar. 23	Earthquakes	Ch 5 & 6	Lab #8 (Earthquakes)
11	W	Mar. 30	Geologic Maps and Section	Ch 5 & 6	Lab #9 (Geological Maps)
12	W	Apr. 6	Sediments	Ch 2 and 3	Lab #10 (Sediments)
13	W	Apr. 13	Streams (Brea Creek)	Ch 3	Lab #12 (Streams)
14	W	Apr. 20	Spring Break		
15	W	Apr. 27	Coastal Processes	Ch 9	Lab #13 (Coastal)
16	W	May 4	Weather Watchers	Ch 11 & 12	Lab #14 (Weather) 30pnts
17	W	May 11	Clark Park	Ch 13 & 14	Lab #15 (Clark)
		May 18	Final Cumulative		

This schedule is subject to change either verbally or in writing.