

EARTH SYSTEM SCIENCE III (ES 106 Lab)
POLICIES AND PROCEDURES
Spring Term 2016 - Western Oregon University
Tuesday 11:00 AM - 1:00 PM; Room 116 Natural Sciences Bldg.

INSTRUCTOR: Dr. Steve Taylor

OFFICE: RM 210 Natural Sciences Bldg

OFFICE HOURS: T-R 1-2 PM; 4-5 PM

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REQUIRED TEXTS: Earth Science 106 Laboratory Manual (available at bookstore)

COURSE DESCRIPTION: This is a laboratory course designed to accompany ES106 Lecture and provides an introduction to physical science, oceanography, meteorology, and climate change. The course serves as a general science LACC elective, with a focus on science appreciation and conceptual workings of the planet Earth. Emphasis is placed on intuitive discovery of concepts developed during the lecture period.

EVALUATIONS AND EXPECTATIONS: Student performance in the lab will be evaluated on the basis of in-class lab exercises. The following is a breakdown of evaluation points:

Lab Exercises	(9 x 8 pts)	72 pts
Lab Quizzes	(2 ea x 25 pts)	50 pts
Homework/Pop Quizzes/Assignment		23 pts
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Total		145 pts

**Grades will be renormalized to 100% for entry in overall class grade; "Passing Grade": Greater than or equal to 60% of total points possible; "Failing Grade": Less than 60% of total points possible.*

Laboratory Exercises: The labs represent a significant component of the class. All lecture sections of ES104 will be distributed across several lab instructors. Be aware that some of you will have the same lecture and lab instructor, while others will not. The following are the terms and conditions of the Lab-portion of the class:

- (1) You must pass the lab with an average score > 60% to pass the course! For example, if you have an "A" in lecture, and an "F" in lab, you will receive an "F" for the entire course. Moral of the story, attend and successfully pass the lab.
- (2) Your lab score will be factored into your final lecture grade as prescribed by the instructor.
- (3) Lab exercises turned in late will result in automatic point(s) reduction, at the discretion of the lab instructor.
- (4) The specific lab instructor has the final say in all lab grading. The lecture instructors will abide by the lab instructors grading procedure.

MAKE-UP LABS: Under NO circumstances will make-up labs be administered without prior arrangement (at least five days) and good reason, with a signed administrative excuse. Please show up on lab day! Many of our labs involve set-ups that will be taken down at the end of the week. Due to room scheduling issues, it is very difficult to arrange make-up labs.

LAB NOTES: A comprehensive set of instructor class notes and lab answer keys are available for download via the internet. The class web site is at URL <http://www.wou.edu/taylor> ... and follow the links to the "ES104" home page. The class notes are available as Adobe Acrobat Reader files (*.pdf file). Lab answer keys will be posted on the web site as the term progresses. It is strongly suggested that you use the lab answer keys to prepare for the quizzes.

PRE-LAB READING QUESTIONS AND POST-LAB ASSESSMENT: A set of pre-lab reading questions will be distributed by your instructor during the first week of class. The pre-lab questions are designed to get you to read through the lab PRIOR to the lab period, so that you are prepared to work on the lab efficiently. Students must complete the pre-lab questions prior to attending lab during a given week. The pre-lab questions will form part of the final lab assignment and will be graded accordingly. The "post-lab" assessment questions for each lab are due at the beginning of the next lab period. The Pre-Lab and Post-Lab questions represent standing homework assignments that will be checked and graded each week.

CHANGE OF SYLLABUS - POP QUIZZES - UNANNOUNCED HOMEWORK

ASSIGNMENTS: The instructor reserves the right to modify the syllabus and class schedule at any time during the term. Students will be notified of such changes in a timely manner. The instructor also reserves the right to administer pop-quizzes and assign unscheduled homework / class assignments at any time. All students will be responsible for completing this work and it will comprise part of the final class grade.

LAB SCHEDULE

Week	Date	Lab Exercise
1	March 29	No Lab Week 1
2	Apr 5	Lab 1: Properties of Water + Take Home Lab – Unit Conversions
3	Apr 12	Lab 2: Heat and Temperature
4	Apr 19	Lab 3: Introduction to Oceanography
5	Apr 26	Lab 4: The Dynamic Ocean Floor; Quiz 1 (25 pts)
6	May 3	Lab 5: Earth-Sun Relations and Atmospheric Heating
7	May 10	Lab 6: Moisture in Atmosphere
8	May 17	Lab 7: Climate of Oregon
9	May 24	Lab 8: Climate Change
10	May 31	Open Lab Period Quiz 2 (25 pts)
11	June 7	Finals Week - No Lab