

ENVI 110: INTRODUCTION TO EARTH SYSTEMS LAB– Fall 2011

Lab #	Thursday Friday	TOPIC	GEO CUSTOM LAB MANUAL plus READER 1) Refer to READER for prelabs 2) READER has Exercises you will work on in lab class
1	2 Sept	Safety Training Geologic Time / Relative Time Home-work on Geology Sense	Prelab 1 due at the end of lab <u>Reader Exercise:</u> Geologic Time (p. 4-7) <u>Lab manual:</u> p.33-50; p.34-35 (unconformities) <u>Geologic Time Scale:</u> See p. 6 in lab manual
2	9 Sept	Plate Tectonics / Isostasy Class Cancelled Take Home Assignment	<u>Prelab 2 due</u> <u>Lab Manual:</u> p. 53-78; 20-21 <u>Reader Exercise:</u> Isostasy and Plate Tectonics
3	16 Sept	Geologic Time Scale Quiz Minerals & Igneous Rocks	Prelab 3A/B & Mineral Web assignment <u>Lab Manual:</u> p.79-110 / p. 111-134 <u>Reader List:</u> Mineral and Igneous Rock ID
4	23 Sept	Quiz on Minerals Sedimentary/Metamorphic Rocks (Organize FT groups)	Prelab 4 due Sedimentary/Metamorphic Rocks. <u>Reader List:</u> Sedimentary and Metamorphic Rock ID
5	30 Sept	Field Trip: Tourmaline Beach Sedimentary Environments & Coastal Processes	Prelab 5 due Bring Tourmaline Beach exercise (See Reader p. 26 - 33)
		Study Sessions: TBA	
6	7 Oct	Plate Tectonics/Mineral & Rock & Tourmaline Exam #1 Topographic Maps	Prelab 6 due (p. 38) <u>Lab Manual:</u> p. 183-214 <u>Reader Exercise:</u> p. 34-37
7	14 Oct.	Fall Holiday:	No Class
		Study Sessions: TBA	Extra Structure Introduction See Structure Practice, p. 48-53
8	21 Oct	Earthquakes / Structure	Prelab 7 and Desert Group Outlines due <u>Lab Manual:</u> p. 243-256 <u>Reader Exercise:</u> 40-47
9	28 Oct	Topo + Geologic Maps Weather instruments	No Prelab due <u>Reader Exercise:</u> p. 53-56 <u>Lab Manual:</u> p. 183-214, 235-242
		Study Sessions: TBA	
10	4 Nov	Quake/Maps/Structure Exam #2 Field Trip Prep	Prelab 9 Desert Field Trip, p. 63-65 is Lecture assignment!! Bring blank field notebook and reader to lab.
	5-6 Nov	Mountain-Desert Field Trip	Group presentations in field. Field Notebook due at the end of the trip.
11	11 Nov	Field Trip: San Diego River	Prelab 8 due (p. 57) <u>Reader Exercise:</u> p. 58-62 (bring with you).
12	18 Nov	Atmosphere Circulation	Prelab 10 due (p. 88) See Lab Manual p. 287-304, also Lecture Text for help with prelab. Lab exercise will be handed out in class.
	25 Nov	THANKSGIVING HOLIDAY	No Class

13	2 Dec.	Weather Maps & Severe Events	Lab exercise will be handed out in class. SD River Report Due.
		Study Sessions: TBA	
14	9 Dec.	FINAL EXAM #3:	Topo and Geol. Maps; River Trip; Atmosphere and Weather; Desert Field trip

SUBJECT TO CHANGE, SEE EXAM DATES

Please bring GEOS CUSTOM LAB MANUAL and “Laboratory Reader” to each lab class.

Summary of LAB SCHEDULE – Fall 2011 ENVI 111

Weeks of lab & topics – Refer to Reader & Lab Manual for exercises, prelabs and notes.

1. Lab/Field Safety; Geologic Time / Relative age Dating **DUE:** Prelab 1
3. **Quiz on Geologic Time.** Take Home Plate Tectonics & Isostasy Assignment **DUE:** prelab 2
. Learn Minerals & Igneous Rocks. **DUE:** prelab 3
4. **Quiz on Minerals.** Learn Sedimentary & Metamorphic Rocks. **DUE:** prelab 4.
5. Field Trip to Tourmaline Beach. **DUE:** prelab 5.
6. **LAB EXAM 1** (Relative Time, Plate Tectonics, Minerals/Rocks, Tourmaline FT).
Learn Topo Maps. **DUE:** prelab 6

Fall Holiday Break, 14 October 2011.

7. **An introduction to Structure for Thursday lab (13 Oct); Friday students welcome.**
8. Earthquakes & Structure. **DUE:** prelab 7.
9. Topo + Geologic Maps
10. **EXAM 2 (Quakes/Structure/Maps)**
Weekend Field Trip Prep. - Assemble field books.
- 10A. **MOUNTAIN – DESERT Field Trip** Field book **DUE** at end of trip. **Prelab 9 now Lecture Assignment.**
5 - 6 November weekend.
11. Field Trip San Diego River (Cabrillo Monument?). **DUE:** prelab 8; 17 or 18 Nov.
12. Atmosphere layers & Circulation. **DUE:** prelab 10
THANKSGIVING Holiday
13. Weather Maps & Climate. NO PRELAB.
14. **Lab Final EXAM** (Topo & Geologic Maps; SD River Trip; Mount-Desert Trip; Atmosphere & Weather.) 9 Dec (last lab meeting – not during normal Finals Periods)