

**Earth and Planetary Science 101/271 Syllabus and Reading Schedule**

<b>Week</b>	<b>SCHEDULE AND READING ASSIGNMENTS</b>				<b>Reading</b>	<b>Lecture Topics</b>	<b>Field area for the day and Quizzes</b>
	<b>Date</b>	<b>Area</b>	<b>Pages</b>	<b>In</b>	<b>Reader</b>		
		<b>Route</b>		<b>Brimhall</b>	<b>Paper #'s</b>		
1:	Weds.	Jan. 21	Area EBMUD			L-1 Course outline, map and field book prep, check out equipment, use of Compass	
2:	Mon. Weds.	Jan. 26 Jan. 28	A-1 SSL	24-43 44-51	(1)	L-2 Tectonics of Coastal Calif., Surveying by Brunton and tape- L-3 Topographic maps and mapping	<i>Siesta Valley Brunton and Tape survey, Declination Fire Trail from Grizzly Peak Quiz # 1 Structural data</i>
3:	Mon. Weds.	Feb. 2 Feb. 4	C-3,4 D-5,1	52-61 62-67	(2,3) (4-9)	L-4 Tectonic controls on Neogene sedimentary basins- L-5 Depositional environment of Monterey Form.-	Claremont Canyon and <i>Grizzly Peak (GP)</i> <i>GP to HW 24 G.P-Siesta Contact Quiz # 2 Time scale</i>
4:	Mon. Weds.	Feb. 9 Feb. 11	E-4 F-6	22-23 1-21	(10,11,11A) (12,13)	L-6 Starting scientific projects, map bases L-7 Global change, sediments and unconformities-	<i>Rhyolite east from GP HW 24 Orinda-GP contact Quiz # 3 Strike and Dip</i>
5:	Mon. Weds.	Feb. 16 Feb. 18	G-4	68-76	(14)	<b>President's Day- No Class</b> L-8 General geology: a refresher	<i>Mapping Or-GP near Horseshoe turn</i>
6:	Mon. Weds.	Feb. 23 Feb. 25	H-6		(15) (15)	L-9 Cross sections- and 3-D Interpretation L-10 Introduction to digital mapping systems	<i>Rhyolite horseshoe turn to WH 24 Quiz # 4 Stratigraphy Use of computers in lab digitizing</i>
7:	Mon. Weds.	Mar. 2 Mar. 4	I-1 I-1		(16-21)	No lecture L-11 GPS data collection modes, precision & accuracy	Bald Peak <i>East side of Siesta V. Quiz # 5 X-section</i> E side of Siesta Valley <b>with digital systems</b>
8:	Mon. Weds.	Mar. 9 Mar. 11	J-1 K & L-7		(22-24)	L-12 Earthquakes, water supply and neo-tectonics L-13 Tert. strat of the Foothills and the Calif. Gold Rush	<i>Siesta/Moraga HW 24 &amp; Grizzly Peak Stables &amp; Eureka Peak GP Stables and Eureka Peak</i>
9:	Mon. Weds.	Mar. 16 Mar. 18	N-5 N-5	77-78	(25-26)	L-14 Transition to independent digital mapping, facies changes L-15 Tertiary volcanism and tectonic controls	<i>Glorietta walk-through Glorietta mapping with digital systems</i>
10:	Mon. Weds.	Mar. 30 Apr. 1	N-5 N-5		(26)	No lecture No lecture	<i>Glorietta mapping Glorietta mapping</i>
11:	Mon. Weds.	Apr. 6 Apr. 8	N-5 N-5		(27-30)	No lecture L-16 Dacite source region	<i>Complete Glorietta mapping Dacite source region mapping</i>
12:	Mon. Weds.	Apr. 13 Apr. 15	Extra time in Lab digitizing map (instead of reading)			L-17 Geodetic markers No Lecture	<i>Sibley Volcano Park walk-through Sibley Volcano Park Start Cross Section</i>
13:	Mon. Weds.	Apr. 20 Apr. 22	"			No Lecture No Lecture	<i>Sibley A-A' Cross section due April 21 Sibley</i>
14:	Mon. Weds.	Apr. 27 Apr. 29	"			No Lecture No Lecture	<i>Sibley Sibley- last mapping day</i>
15:	Mon. Weds.	May 4 May 6	"			EPS 271 Lecture on writing report & advanced digital mapping	<i>Clean out lockers, collect field gear Note: digital maps due 11:00 pm Friday May 8th,</i>
16:	Mon.	May 11				<i>Pick up printed map and cross section Monday May 11th 9 am 345 McCone Hall EPS 101/271 report is due by 5 p.m. on Friday May 15<sup>th</sup> emailed to Prof. Brimhall</i>	