

# EPS C20 and L&S C70Y: Earthquakes in your backyard - Syllabus

Date	Topic	Reading	Homework
28-Aug	California and earthquakes	Bolt Ch 1	
2-Sep	Future earthquakes. <b>CS:</b> The Hayward Temblor Part I	Reisner p85-111	
4-Sep	Future earthquakes. <b>CS:</b> The Hayward Temblor Part II		
9-Sep	<b>CS:</b> Katrina: Destruction of a city		
11-Sep	Earthquake preparedness	Putting down roots	Asmt 1
16-Sep	Faults: The products of earthquakes	Bolt Ch 3	
18-Sep	<b>CS:</b> The Hayward Fault		Asmt 1 due
19-22 Sep*	<b>Field Trip I: The Hayward Fault</b>		FT report
23-Sep	<b>CS:</b> The 1906 Earthquake and Fire		Asmt 2
25-Sep	Where earthquakes occur	Bolt Ch 2	
30-Sep	Plate tectonics	Bolt Ch 7 p142-152	Asmt 2 & FT report due
2-Oct	<b>MidTerm I</b>		
7-Oct	Building up to an earthquake	Bolt Ch 4	
9-Oct	Generating the wiggles	Bolt Ch 4 p101-107, Ch 5	
14-Oct	Interpreting seismograms	Bolt Ch 5	
16-Oct	Earthquake intensity and magnitude		
21-Oct	Seismic gaps and creep	Bolt Ch 7 p153-157	Asmt 3
23-Oct	<b>CS:</b> M9 Tohoku-oki earthquake	Bolt Ch 8	
28-Oct	Tsunamis, volcanoes and earthquakes	Bolt Ch 9 p182-194	Asmt 3 due
30-Oct	<b>CS:</b> Deadliest volcanoes		Asmt 4
4-Nov	<b>MidTerm II</b>		
6-Nov	Earthquake prediction. <b>CS:</b> Browning	Bolt Ch 10	
7-10 Nov*	<b>Field Trip II: The Berkeley Hills Landslides</b>		FT report
11-Nov	<b>No class - Veterans Day</b>		
13-Nov	Earthquake forecasting <b>CS:</b> Bay Area	USGS Fact Sheet	Asmt 4 due
18-Nov	Earthquake early warning systems	Nature Comment	
20-Nov	<b>CS:</b> Buildings: The good and the bad	Bolt Ch 12	FT report due
25-Nov	<b>CS:</b> Campus retrofit tour		Asmt 5
27-Nov	<b>No class - Thanksgiving</b>		
2-Dec	The Berkeley Seismological Laboratory	Bolt Ch 12	
4-Dec	<b>No class</b>		
9-Dec	<b>Review: Your Charge: Planning for disasters</b>	Bolt Ch 11	Asmt 5 due
17-Dec	<b>FINAL EXAM: 8-10am - Rm 150 Wheeler</b>		

**\*Field Trips**

The field trips last about 2 hours. Multiple trip times will be available on the dates shown.

**CS**

"Case studies" will use state of the art scientific data to investigate a specific region, hazard or event and consider the public policy implications of our findings.

**Asmt**

Assignment dates and due dates are listed. All assignments are available on the class website.

**FT report**

Field Trip report due dates are listed.

**Due Dates**

Field trip and assignment due dates are listed on the syllabus. All work is due by 5pm on the day indicated. The work can be handed in in the class lecture on the due date or in the class drop box in 340 McCone Hall.

**Instructor:** Prof. Richard Allen. Email: rallen@berkeley.edu

**This syllabus is subject to change.  
For an up-to-date syllabus visit: <http://earthquakes.berkeley.edu>**

Syllabus version: November 20th, 2014 - subject to change