CEE611 – Earthquake Engineering (3 Credits)
Winter Semester 2007-2008
Course Outline

Date	Class	Title
1/7	0	Introduction
1/9	1	Structure of the Earth
1/14	2	Evidence of Tectonic Theory
1/16	3	Earthquake Properties
1/23	4	Earthquake Intensity Measures
1/28	5	Time-History Records of Earthquakes
1/30	6	Time Domain Properties of Earthquakes
2/4	7	Frequency Domain Properties of Earthquakes
2/6	8	Estimation of Ground Motion Parameters
2/11	9	Estimation of Frequency Domain Parameters
2/13	10	Introduction to Seismic Hazard Analysis
2/18	11	Probabilistic Seismic Hazard Analysis
2/20	12	Probabilistic Seismic Hazard Analysis (Cont)
3/3	13	Seismic Design Codes
3/5	14	Lateral Force Design Procedure in IBC 2003
3/7 (MU)	15	Lateral Structural Systems for Seismic Design
3/10	-	*Travel* – MIDTERM EXAM
3/12	-	*Travel*
3/17	16	Lateral Structural Systems for Seismic Design (Cont)
3/19	17	Design and Response Spectra
3/24	18	Nonlinear Structural Systems Introduction
3/26	19	State-Space Formulation and Non-linear Dynamics
3/31	20	Response of Inelastic Structures
4/2	21	Response of Inelastic Structures (Cont)
4/7	22	Inelastic Response Spectra for Ductility Design
4/9	23	Static Push Over Analyses
4/14	24	Future Directions in Earthquake Engineering

Make Slot: Fridays, 3:30 - 5pm (2315 G G Brown)
Currently, only needed on March 7, 2007
Othertimes if needed

Midterm Exam: Monday, March 10, 2008, 5 - 6:30 pm (2315 G. G. Brown)
In-class, fixed-time and open-Book (midterm will cover Classes 1-12)

Final Exam: None