C&EE 246
Structural Response to Earthquake Ground Motions

Professor:
John W. Wallace 5731C Boelter Hall
310-206-7124 wallacej@ucla.edu

Course Information:
Enrollment number: 547-230-200
Lecture 4 hours/week (4 units)
Time/Room: Mon./Wed. 2:00-3:50P Boelter Hall 5419

Office Hours:
Tue/Thur 1:30 – 3:00 pm Room 5731C Boelter Hall

Grading:
Midterms 40%
Homework 30% See notes below
Final 30% 07 - Monday, March 17, 2008, 11:30am-2:30pm

Homework Policy: Weekly homework sets are due one week after they are assigned. The homework grade constitutes a significant portion of your grade in this class due to the effort that is required. The homework problems must be done in a neat and orderly fashion on engineering or graph paper using a pencil (no ink). Homework results must be summarized and answers clearly indicated. Discussion, as appropriate, should also be provided. Late homework will not be accepted.

Exam Policy: The date and format for the Midterm exam(s) will be set at least one week prior to the exam date.

Catalog Description:
Spectral analysis of ground motions: response, time, and Fourier spectra. Response of structures to ground motions due to earthquakes. Computational methods to evaluate structural response. Response analysis, including evaluation of contemporary design standards. Limitations due to idealizations.

Prerequisites:
CEE 137 Elementary Structural Dynamics
CEE 141/142 Structural Steel Design/Reinforced Concrete Design
CEE 235A Advanced Structural Analysis

Texts – Required/Recommended:
http://www.iccsafe.org/

“Minimum Design Loads for Buildings and Other Structures: ASCE/SEI 7-05,” American Society of Civil Engineers, Reston, VA.
