Course: CEE611 – Earthquake Engineering (3 Credits)
Winter Semester 2010-2011
Course Description

Instructor: Jerome P. Lynch
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Lectures: Mondays and Wednesdays, 4:30 – 6:00 pm
G. G. Brown 2305

Office Hrs: Monday 3:30 - 4:30 pm
2380 G. G. Brown
[Please observe the use of office hours]

Website: www.engin.umich.edu/class/cee611

Catalog Description:
This course is to serve as an introduction to the multi-disciplinary field of earthquake engineering. Topics covered in the course include tectonics, ground motion characterization, probabilistic hazard analysis, response spectra, inelastic structural analysis, and performance-based earthquake-resistant design.

Textbook:
- Geotechnical Earthquake Engineering, S. L. Kramer (Prentice Hall, 1996) - Required
- Dynamics of Structures: A. Chopra (Prentice Hall, 2000) - Required

Optional References:

Course Requirements:
- Regular attendance
- Homework assignments
- Small projects
- Midterm exam (TBD – In Class/Open Book)

Homework:
Homework will be routinely assigned during the course of the semester. Please note, **late homework will not be accepted** – make every effort to submit the assignment in a timely fashion. Homework will often involve Matlab programming. When submitting your assignments, please submit your entire Matlab routine if a problem calls for its use (otherwise points will be deducted). Please refrain from using other programming environments including Excel, among others.

Grading:
Homework 30%, midterm 30%, projects 40%. These weights are approximate; the right to change them later is reserved.

Prerequisites:
- CEE511 Structural Dynamics or equivalent