

CIVL 7137/8137
Geotechnical Earthquake Engineering
Spring 2014
THE UNIVERSITY OF MEMPHIS
<http://www.ce.memphis.edu/7137>

Professor's Name: Dr. Shahram Pezeshk; EN 104B
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Hours Credit: 3 Semester Hours

Office Hour: Open door policy

Course Meetings: 5:30 – 6:55 P.M., TR, EA102D

Textbook: Kramer, L. (1996). "Geotechnical Earthquake Engineering," Prentice Hall, ISBN 0-13-374943-6, New Jersey.

COURSE DESCRIPTION

Theory and measurements of dynamic properties of soils and their applications in seismic hazard assessments, earthquake engineering design, and geophysics studies.

GRADING

The final grades for the course will be based on the following percentages:

Homework	35%
Exams	30%
Final Exam	35%
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	100%

Full POT

First Day of Classes	Aug 28, 2017 / Mon
Labor Day	Sep 4, 2017 / Mon
Fall Break	Oct 14-17, 2017 / Sat-Tue
Thanksgiving Holidays	Nov 22-26, 2017 / Wed-Sun
Last Day of Classes	Dec 6, 2017 / Wed
• Final Exam Schedule:	W, Dec 13, 5:30 - 7:30p

TOPICS

- Chapter 1. Introduction to Geotechnical Earthquakes Engineering
- Chapter 2. Seismology and Earthquakes
- Chapter 3. Strong Ground Motion
- Chapter 4. Seismic Hazard Analysis
- Chapter 5. Wave Propagation
- Chapter 6. Dynamic Properties
- Chapter 7. Ground Response Analysis
- Chapter 8. Local Site Effects and Design Ground Motions
- Chapter 9. Liquefaction