UNIVERSITY OF SOUTHERN CALIFORNIA  
Department of Civil Engineering  

Spring 2012

CE 541b DYNAMICS OF STRUCTURES

Instructor: S.F. Masri  
KAP 206A  
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Office Hours: Monday/Wednesday 2:00 - 4:00 pm

Class No. Section 29801

Class time & Place: Monday 6:30 - 9:10 pm; Room: KAP 138


Prerequisite: CE 541a or equivalent

Drop Dates: Friday, 27 January 2012 without “W”; Friday, 6 April 2012 with “W”

Final Exam: Monday, 07 May 2012, 7:00-9:00 pm

Grades: Homework & Project/Midterm/Final: 35%/30%/35%

Late Homework will not be accepted.  
No make-up on any exam.

COURSE OUTLINE

1. Computational Techniques in Structural Dynamics
2. Continuous Systems; Approximate Methods
3. Random Vibration Concepts
4. Response of Continuous Systems to Random Excitation
5. Introduction to Structural Control and Health Monitoring
6. Nonlinear Systems; Geometric Theory
7. Nonlinear Systems; Approximate Methods
8. * Individualized Project