

UNIVERSITY OF SOUTHERN CALIFORNIA
Sonny Astani Department of Civil and Environmental Engineering

FALL 2013

CE 541a DYNAMICS OF STRUCTURES

Instructor: Sami F. Masri
KAP 206A; Telephone: (213) 740-0602, 740-0603
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Office Hours: Tuesday/Wednesday 2:00 - 4:00 pm

Teaching Assistant #1: Preetham Aghalaya Manjunatha; KAP 239
email: *aghalaya@usc.edu*

T.A. Office Hours: Monday: 2:00-5:30 pm; Tuesday: 3:00-4:30 pm; Wednesday: 3:00-5:00 pm

Teaching Assistant #2: Ramakrishna Tipireddy; KAP 239
email: *tipiredd@usc.edu*

T.A. Office Hours: Thursday: 1:00 - 4:30 pm

Class No. 29779R, 29780D

Class time & Place: Monday 6:40 - 9:20 pm; Room: OHE 100C

Textbook: "Fundamentals of Vibrations," by L. Meirovitch (Waveland Press), 2010

Drop Dates: 13-SEP-2013 without "W"; 15-NOV-2013 with "W"

Final Exam: Monday, 09 December 2013, 7:00-9:00 pm

Grades: Homework/Midterm/Final: 20%/30%/50%

Remarks: Weekly assigned homework problems

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

COURSE OUTLINE

1. Single-Degree-of-Freedom Systems
2. Systems With Several Degrees-of-Freedom
3. Energy Methods
4. Elements of Analytical Dynamics
5. Vibration of Continuous Systems (Exact Methods)
6. Vibration of Continuous Systems (Approximate Methods)
7. Computational Techniques