UNIVERSITY OF SOUTHERN CALIFORNIA
Department of Civil and Environmental Engineering

FALL 2018

CE 459	**Introduction to Structural Dynamics**
Instructor:	Sami F. Masri KAP 206A Telephone: (213) 740-0602, 740-0603 email: masri@usc.edu
Office Hours:	Monday: 1:30 - 3:30 pm; Thursday: 10:00-11:00 am
Teaching Assistant:	*TBA* ; KAP 239, Telephone: 213-740-2036; email: ?
T.A. Office Hours:	M,W: 1:00-3:00 pm, (KAP 239)
Class No.	29674R
Class time & Place:	11:00 am to 12:15 pm; T,Th Room: KAP164
Textbook:	"Dynamics of Structures: Theory and Applications to Earthquake Engineering," (Fifth Edition), by Anil K Chopra (Pearson/Prentice-Hall), 2017
Co-rerequisite:	CE 458 : "Theory of Structures II"
Drop Dates:	7-SEP-2018 without "W"; 9-NOV-2018 with "W"
Final Exam:	Tuesday, 11 December 2018, 8:00 - 10:00 a.m.
Grades:	Homework / Midterm / Final: Homework: 20%; Two Midterms: 40%; Final: 40%
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. Response to Harmonic and Periodic Excitations
3. Response to Arbitrary Dynamic Loads
4. Numerical Evaluation of Dynamic Response
5. Multi-Degree-of-Freedom Systems
6. Introduction to Earthquake Engineering
7. Structural Dynamics in Building Codes