

## ASE384P.3, EM 384L: STRUCTURAL DYNAMICS

Unique number: 13690  
Instructor: Dr. Jayant Sirohi  
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Office Hours: MWF 1:00-2:00 pm  
Prerequisites: Undergraduate course in structural dynamics or instructor's consent  
Last date to drop: 3 September 2013  
Final exam: Wednesday, December 11, 2:00-5:00 pm  
Textbook: *Fundamentals of Vibrations* by Leonard Meirovitch Waveland Press, 2010, ISBN 978-1-57766-691-2 or 1-57766-691-7

### Topics covered

Chapters	Topics
1	Introduction, review of dynamics
2	Single degree-of-freedom (SDOF) free response
3	SDOF harmonic response
4	General SDOF response
5	2DOF systems
6	Analytical dynamics
7	MDOF systems
8	Continuous systems
9, 10	Discretization of continuous systems

### Grading basis

Test 1	20%
Test 2	20%
Test 3	20%
Final exam	40%

### Course policies

1. Grading will be relative. No +/- grades will be given.
2. Homework assignments are for your own practice. They will be collected by the specified deadlines, but they will not be graded. You are strongly advised to complete all assignments on time.
3. Standard electronic course/instructor evaluation forms will be used.
4. Upon request, appropriate academic adjustments for qualified students with disabilities will be made in accordance with University of Texas at Austin guidelines.

Prepared by: Dr. Jayant Sirohi

24 Aug. 2013