

## C&EE 243B: Response & Design of RC Systems

### Professor:

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### Course Information:

Enrollment number: 547-217-200  
Lecture 4 hours/week (4 units)

Time/Room: Tuesday/Thursday 4:00- 5:50 pm MS 5117

### Office Hours:

MW 3:30 – 4:30 pm 5731C Boelter Hall

### Grading:

Midterm	25%	
Homework	50%	See notes below
Final	25%	16 - Monday, June 10, 3-6 pm

Homework Policy: The homework grade constitutes a significant portion of your grade in this class due to the effort that is required. The homework problems must be done in a neat and orderly fashion on engineering or graph paper using a pencil (no ink). Homework results must be summarized and answers clearly indicated. Discussion, as appropriate, should also be provided. Late homework will be marked down 15% for each day it is late.

Exam Policy: The date and format for the Midterm exam will be set at least one week prior to the exam date.

### Prerequisites:

C&EE 246 Structural Response to Ground Motions  
C&EE 243A Behavior and Design of RC Structural Elements

### Texts:

FEMA 273/274/276 Reports (Required)  
FEMA 356 – Recommended  
FEMA 283/349/356 (Required)  
FEMA 368/369 NEHRP Provisions & Commentary (Required)  
Structural Dynamics Textbook (Clough & Penien or Chopra)  
MacGregor, J. G., “Reinforced Concrete: Mechanics And Design,” Third Edition, 1997.  
Paulay and Priestley, “Seismic Design of Reinforced Concrete and Masonry Buildings,” J. Wiley & Sons, 1992  
“Building Code Requirements for Structural Concrete: ACI 318-02,” American Concrete Institute, Farmington Hills, MI.