

SE 101C GS – Structural Mechanics III – Dynamics
University of California San Diego
Course Syllabus

Instructor: Prof. Kenneth Loh
SME 445E
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Final Exam: TBD

Office hours: Prof. Kenneth Loh :: kenloh@ucsd.edu
Or by appointment

Textbook: Anil K. Chopra, *Dynamics of Structures: Theory and Applications to Earthquake Engineering*, 5th Edition, Prentice Hall: Upper Saddle River, NJ (2016)
Note: The 4th edition of the textbook is also acceptable but not previous editions

Course Description:

Free and forced vibrations of undamped and damped one-degree-of-freedom systems; Fourier analysis; vibration isolation; analysis of discrete multiple-degree-of-freedom systems using normal mode matrix formulation; Lagrange's equations; introduction to continuous vibration systems and numerical analysis.

Course Requirements:

- Regular attendance
- Homework assignments (6 to 8 total)
- *Note:* Any non-emergency exam scheduling conflicts should be made known to Prof. Loh **at least one week** prior to the exam date (by e-mail notification). Otherwise, **no make-up exams** will be administered after the exam dates.

Homework:

Late homework will not be accepted. You are allowed and encouraged to work on the homework in small groups, but you must solve and write up your own homework for submission. **Academic dishonesty and plagiarism is taken very seriously and any suspensions of these activities will be immediately reported to Academic Integrity Office.** Homework will be graded on a scale of 100 and by teaching assistants/readers.

Grading: *Note:* The instructor reserves the right to change these weightings at any time.

- Homework: 17.5%
- Quiz and midterm: 17.5% (lower score) and 30% (higher score)
- Final exam: 35%

Prerequisites:

- C- or better in *Math 20F* and *SE 101B*, or *MAE130B*