

**SE 130A GS – Structural Analysis
University of California San Diego
Course Syllabus**

Instructor: Prof. Ken Loh
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Format: SE 130A lectures will be primarily held in the classroom, with some pre-recorded or taught over Zoom. Lectures held in the classroom **will not be recorded**. All students are expected to participate in all lectures.

Tests: All testing are conducted **in-person only**.

Office hours: All office hours are in-person only unless announced otherwise and will be held during Discussion hours with Prof. Ken Loh

Appointments outside of these hours are possible **by e-mailing** the Instructor.

Textbook: Kenneth M. Leet, Chia-Ming Uang, and Joel Lanning, *Fundamentals of Structural Analysis, 6th Edition*, McGraw Hill: New York, NY (2021).
The course textbook is required. All reading and homework assignments will be assigned based on the textbook. Students may elect to use an older edition of the textbook (5th edition), but it is the student's responsibility to ensure that s/he refers to the correct chapters, sections, examples, and homework problems.

Communication with Instructor:

This course uses UC San Diego Canvas for the dissemination of course materials, such as the course syllabus, lecture handouts, and pre-recorded lectures, among others. Students are encouraged to familiarize themselves with Homework, quiz, and final exam scores will also be posted on Canvas shortly after they are graded.

Note: The **most effective way of electronically communicating with the instructor is by e-mail (not Canvas!)**. Messages on Canvas will not be read nor should you expect a response.

Course Description:

Classical analysis methods of determinate and indeterminate structures. Deflection calculations of beams and frames, work-energy methods, flexibility method, slope-deflection method, moment distribution method, approximate structural analysis, influence line concept for moving loads.

Course Requirements:

- Homework assignments
- Regular course attendance, even though the instructor does not take attendance
- Discussion sessions
- 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). A reasonable reason is required.
- Emergencies should be made known to Prof. Loh as soon as possible but no later than **3 business days** following the exam. Otherwise, **no make-up exams** will be administered after the exam dates. The instructor will do his very best to accommodate any legitimate scheduling conflicts, including rescheduling due dates and arranging alternate exams. Official documentation regarding the incident that is on the day of the incident and from an appropriate authority is always required to schedule a make-up exam.
- Students with campus-approved special accommodations should e-mail Prof. Loh at least **one week prior** to exam date to communicate any pre-approved special accommodations.

Homework:

Homework is often assigned in one lecture and due the following lecture. **Homework is assigned** to facilitate your learning and is mandatory.

Grading:

The final raw score is computed based on these weightings. The instructor reserves the right to change these weightings at any time.

- Homework: 10%
- Entrance test: 30%
- Quizzes: 60%

The "Final Grade" and "Final Score" that are posted on Canvas may be incorrect and does not take into account weightings of different categories of grades. Prof. Loh and the Graders keep a detailed spreadsheet of all grades, which we use as the official record. Every effort will be made to ensure that Canvas grades reflect any score changes or corrections. Students are encouraged to contact the teaching assistant (if available) for any grading related issues or questions.

Prerequisites:

- C- or better in *SE 110A*
- *SE 110A* cannot be taken concurrently with *SE 130A* (no exceptions)