ARCE 226: STRUCTURAL SYSTEMS, SECTIONS I & III

Prerequisite: ARCE 211, 212

Office: Building 21, Room 141, 756-1343

Office Hours: M 10-11, T 2-3, W 3-4, R 1-2, F 10-11 and by appointment

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Textbook: No required text

References:

Lectures:
Section I MWF 8-9 38-227
Section III MWF 9-10 38-226

Grading:
Grading will be based on the following scheme:

50% Homework and Projects
50% Quizzes and Exams (1 Midterm, 1 Final)

Lowest homework grade will be dropped. All late assignments will receive a 50% markdown for the first week after it is due. No credit will be given after one week. No make-up quizzes and exams except for documented medical or family emergencies.

Learning Outcomes

1. Stabilize a three-dimensional structure.
2. Choose an appropriate structural system.
3. Develop appropriate framing schemes.
4. Develop gravity and lateral forces and follow the load path to the ground.
5. Describe and use the Euler buckling formula.
6. Compute beam deflections.
7. Appreciate and be aware of advanced/interesting structural systems.