ARC 3551, Structures 3, 3 credits.

The course focuses on indeterminate structures and analysis and design of reinforced concrete elements and systems. Fundamentals of pre-stressed concrete, lateral forces, and resisting systems are also addressed.

Course Goals & Objectives:

Understanding the behavior of continuous beams and frames and their applications.
Understanding the fundamentals of wind and earthquake design.

Student Performance Criterion/a addressed:

B.9 Structural Systems
Understanding of principles of structural behavior in withstanding gravity and lateral forces and the evolution, range, and appropriate application of contemporary structural systems.

Topical Outline:

Prerequisites:

ARC 2501 Structures 1

Textbooks/Learning Resources:

Offered:

Spring only; annually

Faculty assigned:

Thomas Beitelman (Adjunct)