ARC 5597, Structures 3, 3 credits.
This class covers theory and behavior of indeterminate frames; introduction to moment distribution and computer techniques; rapids moment estimating techniques; properties of materials used in reinforced concrete.

Course Goals & Objectives:

A basic understanding of the behavior of concrete elements and systems.
An introduction into the behavior of continuous beams and frames and their applications.
Fundamentals of wind and earthquake design.
Concepts of structural efficiency and appropriateness in terms of system configuration.
Acquaintance with an “analytical thought process” as an approach to problem solving.

Student Performance Criterion/a addressed:

None

Topical Outline:

Prerequisites:

FAMU, College of Architecture requires successful completion of ARC 3551, Structures 2.

Textbooks/Learning Resources:

Nawy, E. Design of Concrete Structures, current edition.

Offered:

Spring only; annually

Faculty assigned:

Thomas Beitelman (Adjunct)