Catalog Data: CE ????. Design of Masonry Structures. 3 hours. Prerequisite: CE 331 Structural Analysis I. Design of Reinforced Masonry Structures (ED = 3)

Prerequisites: CE 331: Structural Analysis I


*Building Code Requirements for Masonry Structures*, American Concrete Institute, 2002, Farmington Hills, MI.

Course Topics:
- Material Properties and Testing
- Construction Practices
- Design Philosophy, Building Codes
- Typical Loads and Movements
- Design for:
  - Flexure
  - Flexure and Axial
  - Shear
- Design of Reinforced Masonry Walls
- Design of Reinforced Masonry Columns and Pilasters
- Design of Beams and Lintels
- Building Design

Class schedule: Class meets each week three times @ 50 minutes = 2.5 contact hours per week

Instructor Information:
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Grading:
- Quizzes and Exams 75%
- Homework and In-class Assignments 5%
- Projects 15%
- Course notebook 5%

Class Website: richardson.eng.ua.edu/CE_491