

ARC 213  
DESIGN PROJECT

COURSE DESCRIPTION:

Prerequisites: ARC 111, ARC 112, and ARC 114

Corequisites: None

This course provides the opportunity to design and prepare a set of contract documents within an architectural setting. Topics include schematic design, design development, construction documents, and other related topics. Upon completion, students should be able to prepare a set of commercial contract documents. Course Hours Per Week: Class, 2. Lab, 6. Semester Hours Credit, 4.

LEARNING OUTCOMES:

A student who successfully completes this course should be able to:

- a. Develop and draw light construction details (type 1 and 2 as defined in NC building code)
- b. Design a functional building using commercial construction techniques
- c. Perform preliminary code research under supervision
- d. Solve drafting and design problems for steel and/or concrete wood construction
- e. Understand the relationship of building codes as applied to commercial construction technology
- f. Size up major structural components as applied to commercial construction technology

OUTLINE OF INSTRUCTION:

- I. Brief Introduction to Building Codes, and Administrative Law for the project
  - A. Planning the building and construction documents
  - B. Research and details
  - C.

- IV. Wall Sections:
  - A. Symbols
  - B. Dimensioning
  - C. Layout

- V. Foundation Systems:
  - A. Symbols
  - B. Dimensioning
  - C. Layout

- VI. Exterior Elevations
  - A. Symbols
  - B. Layout

- VII. Roof Plan and Details

- VIII. Problem solving concepts
  - A. Methods
  - B. Documentation

- IX. Presentation

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