

STATUS: A

COMMON COURSE NUMBER: TAR 2122

COURSE TITLE: Commercial Architectural Drafting

CREDIT HOURS: 3

CONTACT HOURS BREAKDOWN:

Lecture/Discussion 16

Lab 48

Other 00

Contact Hours/Week 4

CATALOG COURSE DESCRIPTION:

This course enables the student to provide architectural drawings and study construction methods and techniques used in commercial buildings. Special attention is directed to the practice of prestressed/precast concrete beams and structural steel members.

General Education Requirements - Associate of Arts Degree, meets Area(s):

General Education Requirements - Associate in Science Degree, meets Area(s):

UNIT TITLES:

1. Typical Plans with Associated Information Graphics for 2-, 3-, and 4-Bedroom Units
2. Typical Overall Building Plan with Egress and Public Areas
3. Elevations and Wall Sections
4. Structural Drawings

I. Course Overview:

Upon successful completion of this course, the students should be able to demonstrate an understanding of the complexities of medium-rise multi-family building design, including architectural, structural, and mechanical.

II. Units:

Unit 1. Typical Plans with Associated Information Graphics for 2-, 3-, and 4-Bedroom Units

General Outcome:

- 1.0 The students should be able to draw typical 2-, 3-, and 4-Bedroom living unit floor plans (1/4" scale).

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Lay out the unit.
- 1.2 Demonstrate an understanding of the dimensions of walls, opening, and fixtures.
- 1.3 Identify door and window symbols.
- 1.4 Label the components
- 1.5 Provide door, finish and window schedules.

Unit 2. Typical Overall Building Plan with Egress and Public Areas

General Outcome:

2.0 The students should be able to draw a typical 1/8" floor plan of an entire building.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Establish exit requirements.
- 2.2 Determine stairs locations.
- 2.3 Determine elevator locations.

Unit 3. Elevations and Wall Sections

General Outcome:

3.0 The students should be able to draw elevations and wall sections of buildings.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to accurately draw to scale:

3.1 Exterior elevations.

3.2 Overall sections.

Unit 4. Structural Drawings

General Outcome:

4.0 The students should be able to draw partial foundation and primary floor plans.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Differentiate between structural systems.
- 4.2 Understand precast and poured in place construction uses.
- 4.3 Draw concrete details.