

Commercial Architecture

Course Design

2005-2006

Course Information

Organization	Eastern Arizona College
Division	ITE
Course Number	DRF 262
Title	Commercial Architecture
Credits	3
Developed by	Doug Griffin
Lecture/Lab Ratio	One hour lecture, four hours lab per week
Transfer Status	DEC (ICG) to ASU, Elective to NAU, NT to UofA
Activity Course	No
CIP Code	15.1300
Assessment Mode	Pre/Post Test; 20 questions, 20 points.
Semester Taught	Offered Upon Request
GE Category	None
Separate Lab	No
Awareness Course	No
Intensive Writing Course	No

Prerequisites

DRF 170 or instructor approval

Educational Value

This course is designed for students interested in commercial architectural layout and design.

Description

Course will focus on the use of CAD in the area of commercial architectural facilities layout and design. Projects involve the creation of commercial floor plans, external elevations, and site plans. Emphasis is placed upon meeting the customer needs, local building codes, and industry standards.

Textbooks

None required.

Supplies

None

Competencies and Performance Standards

1. Design a commercial facility to customer's satisfaction.

Learning objectives

What you will learn as you master the competency:

- a. Adapt commercial design to meet all of the customer's needs and desires.

Performance Standards

Competence will be demonstrated:

- o as a result of an interview with customer.

Criteria - Performance will be satisfactory when:

- o learner completes interview with customer.
- o learner creates a thumb-nail sketch of customer facility needs based on interview.
- o learner identifies specific customer facility requirements.

2. Create a set of working drawings to meet specific customer needs including floor plan, elevations, details, schedules, and site plan.

Learning objectives

What you will learn as you master the competency:

- a. Describe the basic construction drawings used to build a structure.
- b. Draw a commercial facilities floor plan using accepted symbols and techniques. Include dimensions in a clear and concise manner.
- c. Record the topographic features of a site.

Performance Standards

Competence will be demonstrated:

- o having completed a customer interview.
- o using the drafting lab equipment and software.

Criteria - Performance will be satisfactory when:

- o learner completes set of working drawings.
- o learner meets customer requirements.
- o learner meets federal and local building code standards.

3. Explain the considerations of commercial facilities planning. (site location, zoning, ADA requirements, customer needs, community attributes)

Learning objectives

What you will learn as you master the competency:

- a. Discuss the key site considerations, restrictions, zoning and codes.
- b. List the customer needs that should be considered. (handicaps, special needs)

- c. Evaluate the site with respect to the considerations.

Performance Standards

Competence will be demonstrated:

- o in a written report of architectural planning.

Criteria - Performance will be satisfactory when:

- o learner will explain in written form, considerations of facility planning.

4. Demonstrate the use of CAD in the creation of a complete commercial plan.

Learning objectives

What you will learn as you master the competency:

- a. Apply major features of a CAD system.
- b. Use special features of a dedicated commercial architectural CAD application.
- c. Print the complete set of facilities plans.

Performance Standards

Competence will be demonstrated:

- o using the drafting lab equipment and software.

Criteria - Performance will be satisfactory when:

- o learner completes a full set of facilities drawings using an architectural CAD application.

5. Reproduce a set of plans.

Learning objectives

What you will learn as you master the competency:

- a. Install paper into blueprint machine.
- b. Acquaint self with equipment used in producing a commercial architectural blueprint.

Performance Standards

Competence will be demonstrated:

- o using available equipment to create a blueprint.

Criteria - Performance will be satisfactory when:

- o learner will create blueprints from plans.

6. Create a rendered representation of a commercial facility.

Learning objectives

What you will learn as you master the competency:

- a. Use rendering program or software.
- b. Print rendered design.

Performance Standards

Competence will be demonstrated:

- o using the available equipment in the drafting lab.

Criteria - Performance will be satisfactory when:

- o learner will create a rendering of their facility.

Types of Instruction

Classroom Presentation

Lab

Grading Information

Grading Scale

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	59% or lower