



Western Technical College

10614109 Introduction to Architectural Design

Course Outcome Summary

Course Information

Description	The objective of this course is to familiarize students with architectural graphics and to introduce them to the principles and processes of design emphasizing development of basic skills, idea, and techniques used in the architectural design process.
Career Cluster	Architecture and Construction
Instructional Level	Associate Degree Courses
Total Credits	4
Total Hours	126

Textbooks

No textbook required.

Learner Supplies

Architectural Technology Kit. **Vendor:** Campus Shop. Required.

Success Abilities

1. Live Responsibly: Foster Accountability
2. Refine Professionalism: Participate Collaboratively

Program Outcomes

1. Develop construction documents

2. Develop building designs

Course Competencies

1. Identify careers and skills related to architecture.

Assessment Strategies

- 1.1. Written Product

Criteria

You will know you are successful when

- 1.1. you classify types of employers likely to hire architectural technology graduates.
- 1.2. you identify skills for career success.

Learning Objectives

- 1.a. Explore career goals.
- 1.b. Classify types of employers likely to hire architectural technology graduates.
- 1.c. Explore skills for career success.

2. Produce architectural sketches.

Assessment Strategies

- 2.1. Drawing/Illustration

Criteria

You will know you are successful when

- 2.1. you draw hand sketches to document architectural elements.
- 2.2. you communicate architectural ideas through hand sketches.

Learning Objectives

- 2.a. Practice hand sketches to document architectural elements.
- 2.b. Utilize hand sketches to communicate architectural ideas.

3. Apply the vocabulary of form and design.

Assessment Strategies

- 3.1. Drawing/Illustration

Criteria

You will know you are successful when

- 3.1. you describe various form types.
- 3.2. you distinguish form categories in the built environment.

Learning Objectives

- 3.a. Differentiate various form types.
- 3.b. Distinguish form categories in the built environment.

4. Examine the elements and characteristics of design.

Assessment Strategies

- 4.1. Presentation

Criteria

You will know you are successful when

- 4.1. you distinguish the elements of design.
- 4.2. you identify design characteristics in the built environment.

Learning Objectives

- 4.a. Distinguish the elements of design.
- 4.b. Identify design characteristics in the built environment.

5. Apply architectural drawing conventions.

Assessment Strategies

- 5.1. Drawing/Illustration
- 5.2. Product

Criteria

You will know you are successful when

- 5.1. you use architectural and engineering scales.
- 5.2. you produce annotations using architectural lettering.
- 5.3. you use proper dimensioning techniques.

Learning Objectives

- 5.a. Utilize architectural and engineering scales.
- 5.b. Produce annotations using architectural lettering.
- 5.c. Utilize proper dimensioning techniques.

6. Prepare orthographic architectural drawing views.

Assessment Strategies

- 6.1. Drawing/Illustration

Criteria

You will know you are successful when

- 6.1. you produce plan views.
- 6.2. you produce section views.
- 6.3. you produce elevation views.

Learning Objectives

- 6.a. Define orthographic.
- 6.b. Explore the differences and uses of plan, section, and elevation views.
- 6.c. Produce plan views.
- 6.d. Produce section views.
- 6.e. Produce elevation views.

7. Explore three dimensional architectural drawing views.

Assessment Strategies

- 7.1. Drawing/Illustration

Criteria

You will know you are successful when

- 7.1. you produce paraline views.
- 7.2. you differentiate types of perspective views.

Learning Objectives

- 7.a. Produce paraline views.
- 7.b. Differentiate types of perspective views.

8. Measure and document buildings.

Assessment Strategies

- 8.1. Drawing/Illustration
- 8.2. Project

Criteria

You will know you are successful when

- 8.1. you apply proper field measuring techniques.
- 8.2. you produce clear and organized field notes.
- 8.3. you draw accurate plan to scale.

Learning Objectives

- 8.a. Use proper field measuring techniques.
- 8.b. Produce clear and organized field notes.

8.c. Draw accurate plan to scale.

9. Explore the architectural design process.

Assessment Strategies

9.1. Project

Criteria

You will know you are successful when

- 9.1. you identify functional requirements.
- 9.2. you sketch multiple concepts.
- 9.3. you modify selected design to refine and improve it.

Learning Objectives

- 9.a. Identify functional requirements.
- 9.b. Sketch multiple concepts.
- 9.c. Modify selected design to refine and improve it.

10. Explore space planning principles.

Assessment Strategies

10.1. Project

Criteria

You will know you are successful when

- 10.1. you determine program requirements.
- 10.2. you use bubble diagrams.
- 10.3. you implement accessible design practices.

Learning Objectives

- 10.a. Determine program requirements.
- 10.b. Utilize bubble diagrams.
- 10.c. Implement accessible design practices.

11. Develop architectural presentations.

Assessment Strategies

- 11.1. Project
- 11.2. Presentation

Criteria

You will know you are successful when

- 11.1. you prepare architectural presentation drawings or models.
- 11.2. you explain design to others.

Learning Objectives

- 11.a. Prepare architectural presentation drawings or models.
- 11.b. Explain design to others.

12. Critique architectural designs.

Assessment Strategies

12.1. Critique

Criteria

You will know you are successful when

- 12.1. you critique existing architectural designs.
- 12.2. you critique other's architectural designs.
- 12.3. you critique own architectural designs.

Learning Objectives

- 12.a. Critique existing architectural designs.
- 12.b. Critique other's architectural designs.

12.c. Critique your own architectural designs.