



Western Technical College

10304130 2D Architectural Drafting Technology

Course Outcome Summary

Course Information

Description	Architectural graphic and drafting standards are applied to develop, analyze and review detailed construction documentation using emerging technological software. Techniques include the creation of the building information model, families usage and sheet layouts.
Career Cluster	Architecture and Construction
Instructional Level	Associate Degree Courses
Total Credits	2
Total Hours	36

Textbooks

Digital Drawing for Designers: A Visual Guide to AutoCAD 2021. Copyright 2021. Seidler, Douglas R. Publisher: MacMillan Higher Education. **ISBN-13:** 978-1-5013-6283-5. Required.

Learner Supplies

Interior Design Kit. **Vendor:** Campus Shop. Required.

Pro Art Messenger Art Supply Bag, Prismacolor Premier Colored Pencils (Set of 24), Prismacolor Premier Colored Pencil Colorless Blender, Scotch Foam Mounting Tape, and Utility Knife. **Vendor:** Campus Shop. Required.

Success Abilities

1. Live Responsibly: Develop Resilience

2. Live Responsibly: Embrace Sustainability
3. Live Responsibly: Foster Accountability
4. Refine Professionalism: Improve Critical Thinking
5. Refine Professionalism: Practice Effective Communication

Program Outcomes

1. Integrate Codes that impact the interior environment
2. Integrate industry guidelines that impact the interior environment
3. Design within the parameters of the built environment

Course Competencies

1. Explore hand drawing.

Assessment Strategies

- 1.1. Drawing/Illustration

Criteria

You will know you are successful when

- 1.1. you create architectural sketches
- 1.2. you create orthographic sketches
- 1.3. you identify perspective drawings
- 1.4. you apply hand lettering to drawings.

Learning Objectives

- 1.a. Create architectural sketches
- 1.b. Create orthographic sketches
- 1.c. Review perspective drawings
- 1.d. Practice Hand Lettering

2. Apply architectural graphics standards.

Assessment Strategies

- 2.1. Drawing/Illustration
- 2.2. Project

Criteria

You will know you are successful when

- 2.1. you assemble a titleblock
- 2.2. you apply graphic informational elements
- 2.3. you articulate the uses of different drawing views
- 2.4. you produce annotations using architectural lettering
- 2.5. you employ proper illustration of materials

Learning Objectives

- 2.a. Explore components of a titleblock with labels and parameters
- 2.b. Identify criteria for graphic informational elements
- 2.c. Explore the differences and uses of plan, section and elevation views
- 2.d. Examine types of annotations using architectural lettering
- 2.e. Examine how materials are illustrated

3. Apply appropriate measuring conventions.

Assessment Strategies

- 3.1. Drawing/Illustration
- 3.2. Project

Criteria

You will know you are successful when

- 3.1. you determine proper drawing scales for associated projects
- 3.2. you apply proper dimensioning techniques
- 3.3. you employ proper field measuring techniques
- 3.4. you operate an architect's scale

Learning Objectives

- 3.a. Select and display the correct drawing scale
- 3.b. Identify proper dimensioning techniques
- 3.c. Identify proper field measuring techniques
- 3.d. Demonstrate use of an architect's scale

4. Explore architectural design and modeling software.

Assessment Strategies

- 4.1. Drawing/Illustration
- 4.2. Project

Criteria

You will know you are successful when

- 4.1. you navigate the software
- 4.2. you use the software to develop projects
- 4.3. you integrate BIM families and/or objects
- 4.4. you employ design materials pallet
- 4.5. you model design components in the software

Learning Objectives

- 4.a. Examine capabilities of the software.
- 4.b. Identify the capabilities of the software
- 4.c. Utilize BIM families and/or objects
- 4.d. Assemble materials
- 4.e. Model required components

5. Prepare a set of interior design construction documents.

Assessment Strategies

- 5.1. Drawing/Illustration
- 5.2. Project

Criteria

You will know you are successful when

- 5.1. you follow drawing sequence requirements.
- 5.2. you develop a detailed floor plan.
- 5.3. you develop interior elevations.
- 5.4. you develop custom cabinet details.
- 5.5. you ensure drawing complies with industry codes and guidelines.

Learning Objectives

- 5.a. Identify factors affecting drawing preparation
- 5.b. Identify components of an interior design construction documents.
- 5.c. Outline information to be included on drawings
- 5.d. Identify drawing sequence requirements
- 5.e. Review industry codes and guidelines

6. Examine associated construction drawings.

Assessment Strategies

- 6.1. Scenario Response
- 6.2. Case Study

Criteria

You will know you are successful when

- 6.1. you interpret consultant drawings within a CD set
- 6.2. you interpret architectural drawings within a CD set
- 6.3. you visualize additional interior design content within a CD set

Learning Objectives

- 6.a. Examine consultant drawings within a CD set
- 6.b. Examine architectural drawings within a CD set
- 6.c. Examine additional interior design content within a CD set