South Central College

BDET 1150  AutoCAD

Course Outcome Summary

Course Information

Description
This is an introductory 2D computer-aided drafting course that takes a practical hands-on approach to the use, operations, and methods of Autocad. It includes the following: drafting, linetypes, linewidths, accuracy, dimensioning, editing, drawing setup, scaling, and plotting. (Prerequisites: None)

Total Credits 2
Total Hours 48

Types of Instruction

Instruction Type | Credits/Hours
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Lecture | 16 Hours, 1 credit
On-Campus Lab | 32 Hours, 1 credit

Pre/Corequisites
None

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Create basic 2D entities.
   Learning Objectives
   Draw LINES.
   Draw circular entities.
   Draw rectangular entities.

2. Use layers, colors, and linetypes.
   Learning Objectives
   Create specific schemes for LAYERS.
Change COLOR properties of entities.
Modify LINETYPE properties.

3. **Construct and modify template drawings.**
   Learning Objectives
   - Create template drawing files.
   - Modify template drawing files.
   - Understand the difference between drawing and template files.

4. **Produce arcs, rectangular arrays, and polar arrays.**
   Learning Objectives
   - Create assignment specific ARCS.
   - Make RECTANGULAR ARRAYS.
   - Construct POLAR ARRAYS.

5. **Incorporate object snaps.**
   Learning Objectives
   - Demonstrate knowledge of object snap settings.
   - Incorporate running object snaps.
   - Demonstrate the use of object snap tracking.

6. **Create text, dimensions, leaders, and other complex entities.**
   Learning Objectives
   - Enter and modify text using SINGLE-LINE TEXT.
   - Create and modify text using MULTI-LINE TEXT.
   - Produce assignment specific DIMENSIONS.
   - Produce assignment specific LEADERS.
   - Demonstrate proper HATCHING techniques.

7. **Demonstrate an understanding of polylines.**
   Learning Objectives
   - Create assignment specific POLYLINES.
   - Draw DONUTS.
   - Edit polylines using PEDIT.
   - Draw REVISION CLOUDS.
   - Use SKETCH command.

8. **Create blocks, attributes, and external references.**
   Learning Objectives
   - Demonstrate use of GROUPS.
   - Create assignment specific BLOCKS.
   - Create assignment specific WBLOCKS.
   - INSERT blocks into the current drawings.
   - Define ATTRIBUTES.

**SCC Accessibility Statement**
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