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
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 trcking.

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 asignment specific BLOCKS.
Create assignment specific WBLOCKS.
INSERT blocks into the current drawings.
Define ATTRIBUTES.

SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations.   North Mankato: Room B-132, (507) 389-7222;   Faribault: Room A-116, (507) 332-7222.

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