South Central College

CTLS 1110 Basic AutoCAD

Course Outcome Summary

Course Information

Description	This course covers the basic operations of AutoCAD. It includes drafting and editing, drawing setup, scaling and plotting. (Prerequisites: None)
Total Credits	3
Total Hours	64

Types of Instruction

Instruction Type	Credits/Hours
Lecture	2
Lab	1

Institutional Core Competencies

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

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 geometry.

Learning Objectives
Use help command.
Make lines and circles.
Use relative coordinates.
Use absolute coordinates.
Use polar coordinates.
Plot drawings to scale.
Use ZOOM/VIEW/Pan command.

2.   Utilize layers, colors, and linetypes.

Learning Objectives
Use layers.
Make layer settings.
Set layer line weights.

Edit corners.

3. **Create template drawings.**

Learning Objectives
Create templates.
Use rectangular ARRAY commands.
Change plot settings.
Make paper space viewports.

4. **Use arcs and polar arrays.**

Learning Objectives
Create polar arrays.
Draw arcs.
Use MIRROR command.
Use ROTATE command.

5. **Use object snap.**

Learning Objectives
Use OBJECT SNAP commands.
Make SNAP settings.
Use TRIM/STRETCH command.
Use BREAK command.
Use GRIPS.

6. **Create text, dimensions, and other complex entities.**

Learning Objectives
Make text/dimension styles.
Use MATCHPROP command.
Dimension geometry.
Use HATCH command.

7. **Utilize polylines.**

Learning Objectives
Make POLYLINES.
Edit Polylines.
Use the FILL command.
Draw SPLINES.

8. **Create blocks.**

Learning Objectives
Make blocks.
Create groups.
Edit attributes.

9. **Create isometric drawings.**

Learning Objectives
Make isometric drawings.
Switch isometric planes.
Use isometric SNAP.

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.

Additional information and forms can be found at: www.southcentral.edu/disability

This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.