



South Central College

ARCH 1102 AutoCAD Architecture

Common Course Outline

Course Information

Description	This introductory Computer Aided Drafting (CAD) course explores AutoCAD Architecture beginning with basic AutoCAD tools and advancing to AutoCAD Architecture tools. CAD management concepts and exploring AutoCAD Architecture 3D are included.
Total Credits	2
Total Hours	48

Types of Instruction

Instruction Type	Credits/Hours
Lecture	1/16
Lab	1/32

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 Outcomes

1. Demonstrate knowledge of software basics.

Learning Objectives

Execute the software download/launch and navigate the user interface.
Use drafting tools such as grips, object snap, commands, and selection.

2. Demonstrate the ability to work with basic graphics.

Learning Objectives

Use draw commands to create basic graphics: line, rectangle, circle, arc, and polyline.
Use modify commands to edit, manipulate, and duplicate objects.
Use properties command (layer-color-linetype) to define objects and organize graphics.

3. Demonstrate ability to work with advance CAD tools.

Learning Objectives

Create/define text, dimensions, and symbols.

Create/define blocks, attributes, and external references.

Work with model space, paper space, and viewports to produce printable documents.

4. Demonstrate knowledge of AutoCAD Architecture (AEC) Walls & Openings.

Learning Objectives

Explore wall tools interface and wall styles tool palette.

Import, create, and modify AutoCAD Architecture walls.

Explore wall openings (doors-windows-openings) interface and opening styles tool palette.

Import, create, and modify AutoCAD Architecture openings.

5. Demonstrate knowledge of AutoCAD Architecture (AEC) Design & Documentation Tool Palettes.

Learning Objectives

Explore design tools interface and design tools palette.

Import, create, and modify AutoCAD Architecture fixtures, furnishing, and equipment.

Explore documentation tools interface and documentation tools palette.

Import, create, and modify AutoCAD Architecture notes, tags, and symbols.

6. Demonstrate knowledge of AutoCAD Architecture (AEC) Grids & Roofs.

Learning Objectives

Explore the structural grid tool interface to create and modify a structural grid.

Explore the ceiling grid tool interface to create and modify a ceiling grid.

Explore the roof tool interface to create and modify a roof.

7. Demonstrate knowledge of CAD management practices.

Learning Objectives

Discuss the use of drawing template content and establishing company standards.

Explore creating custom AEC style content via the style manager.

Explore creating library content for AEC design and documentation tool palettes.

SCC Accessibility Statement

Disability Services provides accommodations and other supports to students with permanent and temporary disabilities that affect their SCC experience. Disabilities may include mental health (anxiety, depression, PTSD), ADHD, learning disabilities, chronic health conditions (migraine, fibromyalgia), sensory disabilities, and temporary disabilities (broken arm, surgery). Common accommodations are extended test time, private room for testing, audiobooks, and sign language interpreter.

Contact us: Faribault A116 (507) 332-5847. North Mankato E112 (507) 389-7222. ds@southcentral.edu
www.southcentral.edu/disability

Grading Scale

Grading Scale

Each project, quiz, activity, and assignment will have an assigned possible number of points. Points will be awarded based on correctness of work. The total of all points earned will be divided by the maximum possible to determine a percentage. Late assignments will be accepted anytime until the semesters end **Any work handed in late (regardless of duration) will incur a 10% deduct from the grade for that instance.**

Grades will be based on the following percentage of points earned

A 92-100

A-	90-91.9
B+	87-89.9
B	83-86.9
B-	80-82.9
C+	77-79.9
C	73-76.9
C-	70-72.9

Note: Grades below 70% will not count towards degree completion, course must be repeated

D+	67-69.9
D	63-66.9
D-	60-62.9
F	Below 60

Attendance Expectation

Class attendance / participation contributes significantly to academic success. Students who attend classes regularly tend to earn higher grades and have higher passing rates in courses. Excessive absences may jeopardize your grades or even your ability to continue in this course. **Class participation will be part of your grade! The following will apply in all ARCH program courses:**

- An absence is excused ONLY if the student contacts the instructor BEFORE class.
- If you are absent from class for any reason, you are responsible for all missed work and for contacting the instructor promptly.
- Unexcused absences for 3 consecutive class sessions will reduce your final grade by 10% after the first occurrence and automatic course failure after the second occurrence. Overall attendance falling below 50% will result in automatic course failure.
- Online attendance is available at the instructor's discretion. It is reserved for extenuating circumstances and is NOT a replacement for attendance.