



Course Information

- Semester and Year: Spring 2026
- Course Title: Architectural Computer Aided Design II: Plans and Elevations
- Course Prefix / Number: ARC 112
- Section Number: 23572
- Credit Hours: 3.0
- Start Date: 01/26/26
- End Date: 05/15/26
- Room Number: AP 294 – Mac Lab
- Meeting Days: Monday
- Meeting Times: 9:15AM – 11:45AM
- Class Format: Hybrid, In-Person

- Instructor Information

- Instructor: Cherise “CJ” Robb
- Email: cherise.robb@scottsdalecc.edu
- Phone: 480-251-5792 (text only)
- Office Location: AP 244 or AP 294, read below

Office Hours:

Monday: 2:30 – 3:30PM – in AP 294 Mac Lab

Tuesday: 2:15 – 3:15PM – in AP 244, Instructor Office

Wednesday: Virtual & By appointment only

Thursday: 12:30 – 1:30PM – in AP 294 Mac Lab

Course Description

Computer-aided drafting (CAD). Creation of a fully annotated plan, elevation, and schematic section views including dimensions, notes, symbols, and schedule, using a computer aided drafting software program such as AutoCAD. Includes an introduction to three-dimensional (3D) CAD using SketchUp and Building Information (BIM) software such as REVIT.

Prerequisites and/or Corequisites

- Prerequisites: A grade of C or better in ARC/INT 111. Completion of prerequisites within the last three years is required unless current work experience to override this time constraint is approved with permission of Instructor.

- Course Notes: Students must have working knowledge of basic computer operating systems including, but not limited to, Windows or Mac iOs.

Course Competencies

1. Create architecturally formatted 2D drawing files using standard CAD tools. (I-IX)
2. Manage architecturally formatted drawing files using standard CAD browsing tools. (I-IX)
3. Create a cover sheet with exported rendered images. (II, VII)
4. Utilize XREF Manager to insert architecturally formatted drawing files into another drawing. (III)
5. Annotate architecturally formatted drawing files using standard CAD tools and/or CAD browsing tools. (IV)
6. Use symbols for lighting, power, HVAC and fire protection. (IV, VI-VII)
7. Plot architecturally formatted drawing files in Paper Space. (V)
8. Develop base plans from a given drawing. (VI)
9. Create furniture plans, annotated plans, reflected ceiling plans, electrical plans, schematic cross sections, elevations, and schedules. (VI)
10. Demonstrate the ability to import and create drawing in three dimensions using 3D and rendering software. (VIII)
11. Introduce the importation, creation, and plotting of plan views and three dimensional views using BMI.

(IX) General Education & Institutional Learning Outcomes

General Education provides foundational learning experiences that contribute to academic and career success. It is reflected in [Scottsdale Community College's Institutional Learning Outcomes](#): Arts & Humanities Awareness, Career Readiness, Critical Thinking and Problem Solving, Effective Communication, Information Literacy, and Social Responsibility.

Students that take ARC 112 will learn how to apply the basic *draw* and *modify* commands learned in the previous class, ARC 111 to produce drawing types specific to the architecture and design industry: floor plan, elevation, section elevation, multi-view drawings, and supplemental drawings. This fulfills the Career Readiness institutional learning outcome at Scottsdale Community College.

Students that take ARC 112 will compare and contrast 3D modeling in AutoCAD and SketchUp software programs. This fulfills the Critical Thinking and Problem solving institutional learning outcome at Scottsdale Community College.

Students that take ARC 112 will demonstrate how to read and key drawings within an architectural sheet set (blueprint set) utilizing a *seek and find* semester-long activity. Students apply terminology specific to the industry learned through professional modeling in this activity to apply to their own drawings, including abbreviations, keynotes, schedules, general notes, code references, title bars, logo, and title block information. This fulfills the Effective Communication, Information Literacy, Critical Thinking, and Career Readiness institutional learning outcome at Scottsdale Community College.

Students that take ARC 112 will express design details of an Arts & Crafts style bungalow, located in Kaua'i, HI. The details expressed in their drawings will reflect the adopted codes of Kaua'i, HI, report material selections based on the local climate, cultural history, and sustainable practices within the

region. This fulfills the Arts & Humanities Awareness institutional learning outcome at Scottsdale Community College.

Program Learning Outcomes

Credit-bearing courses at Scottsdale Community College can count toward the completion of a degree or certificate program. Each program has Program Learning Outcomes, which are learned assets that students can claim to have acquired by completing their academic or occupational program at SCC. Program Learning Outcomes can be found on the [Degrees and Certificates page](#) of the SCC Website. For each degree, look under “What You’ll Learn.”

This course most directly applies to the Micro certification in AutoCAD, emphasis in **ARC** program with the following Program Learning Outcomes:

1. Apply current standards in dimensioning, symbology, linetypes, lineweights, drawing notes for working drawings, design related drawings to read, interpret, and produce construction documents and portfolio-quality working drawings. (ARC111, ARC112,)
2. Use the latest 2D parametric modeling CAD software to develop technical drawings in a manner that is efficient and compliant with standard industry practices. (ARC111, ARC112)
3. Apply construction industry codes and standards. (ARC111, ARC112)
4. Produce multi-view layouts, sections, details, working drawings, and building components schedules. (ARC111, ARC112)
5. Communicate with others in verbal and in written form to collaboratively solve complex problems within the discipline. (ARC111, ARC112)

Texts and Course Materials

Required text:

This is a trifold laminated quick guide to the design codes used in the class this semester. The most cost effective resource is Amazon.com

2021 International Residential Code: A Unique Quick-Reference Guide

ISBN: 978-1-62270-912-0

Publisher: Builder’s Book, Inc

Recommended text:

Interior Designer’s Portable Handbook (any edition)

Author: Pat Guthrie

Publisher: McGraw Hill Education

Additional Course Materials (provided to you):

Each week you will be provided step-by-step graphic instructions relevant to the unit lessons to insert into a 3-ring binder. At the end of the semester you will have a set of professional instructions for internships and entry-level employment as a CAD drafter.

Course Policies

The following are policies specific to this course. Students are also responsible for the college policies included on the [Student Regulations](#) page of the Maricopa Community College District website.

You must comply with the course policies of ARC 112: Plans and Elevations as defined by the SCC Student Handbook (where applicable) and classroom policies set by the instructor of record.

You will be required to attend class regularly and/or keep up with weekly deadlines working on your own. (see Attendance Policy.

You will have weekly deadlines to keep up your AutoCAD skills. You will work on a semester-long project which you will submit at the end of the semester.

There are quizzes and surveys that are graded in this class. You have 2 weeks to complete the quiz or survey.

It is important that you submit all projects, assignments, and quizzes by the due date listed. Do your best to keep up-to-date on assignments and project development.

It is HIGHLY recommended that you download the Canvas Instructure app onto your smartphone so that you can make quick submissions you need to meet a deadline and do not have immediate access to a computer.

PROFESSIONALISM:

Attendance Policy

Professional conduct is 10% of your overall grade. This is an opportunity to practice habits that are specific to working in the design industry:

- Consistent attendance and/or keep up with weekly assignments
- Maintain positive attitude
- Communicate effectively through email following class email protocol, “netiquette”
- Attempt to meet weekly assignment and homework deadlines
- Try new methods of learning and problem solving
- Do not give up; ask for help as needed
- Communicate with classmates about AutoCAD; we learn more from each other than from books and videos
- Do not lose your temper; try to stay calm
- Remember that your instructor is on your side; I want you to succeed.

Instructional Contact Hours and Minimum Course Expectations

Instructional contact hours are the weekly time students spend directly learning with their instructor or course activities. These activities include, but are not limited to, lectures, discussions, labs, group work, and viewing recordings. Instructional contact hours vary by course; refer to the [MCCCD course bank](#) for your course's details.

Minimum course expectations include the number of hours students are expected to spend outside of class (weekly) completing coursework. Students are encouraged to use the [Time Management Calculator](#) to help estimate their weekly time commitment for classes.

Instructional Contact Hours and Minimum Course Expectations

Instructional contact hours for this class are 6.0 hours minimum per week. Maricopa Community Colleges have designated 2.5 hours of in-person time for this class and 3.5 hours of lab time on your own. See Open Lab times in syllabus.

A typical student can expect to work 4 – 6 hours on the course content outside of this class each week.

Course Technologies

View the [Accessibility Statements & Privacy Policies](#) of the technologies used in this course. The [SCC Help Desk](#) provides students with a primary point of contact within SCC for college-supported technology services and technical assistance.

Maricopa Systems

This course uses key Maricopa systems for course management and communication.

- Canvas Learning Management System
- Student Maricopa Gmail Account
- Maricopa Open Educational Resource Learning System (MOER)

Synchronous Communication Tools

This class meets in person. However, if you would like to request a virtual learning session, you will need to download the Zoom app to share your computer screen with the instructor to maximize learning.

Streaming Media/Audio/Video Tools

Videos for this course can be found on YouTube:

www.youtube.com/@cherisejanell

Also: Films on Demand: through the SCC library; links will be provided with assignment.

Student Assignment Tools

This course requires students to participate in or submit assignments using desktop or cloud-based applications.

- Autodesk AutoCAD student subscription
- SketchUp with Layout plugin student subscription
- Google Products
- ScreenPal
- Adobe Creative Cloud
- Smartphone camera/scanner/video

Exam Proctoring Tools

Generative Artificial Intelligence (AI) Policy

Some Generative Artificial Intelligence (AI) Allowed in Specific Circumstances

There are situations and contexts within this course where you may be permitted to use generative AI tools. In these cases, specific guidelines will be provided in the assignment details. If you are unsure if the tool or website you are using is a generative AI tool or if it is permitted on a specific assignment, please contact the instructor for further clarification before submitting your work.

Grading Standards and Practices

Grade Scale

Letter Grade	Points Range
A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	0 – 59%

Assignments

Assignment Name	Percent of Grade
Weekly AutoCAD Drawing Details	20%
Quizzes	20%
Semester Project	50%
Professionalism	10%
TOTAL:	100%

Student/Instructor Interaction

In this course, you can expect regular and substantive interaction (RSI) that aligns with Scottsdale Community College's mission to provide challenging and supportive learning experiences and the US Department of Education's requirement for regular and substantive interaction (RSI) for online courses. My commitment to your success includes the following:

- Being available during regularly scheduled office hours as stated in the syllabus.
- Sharing weekly information about the course materials, including key information, explanations, examples, and resources via in-person, recorded, and/or text-based lectures.
- Engaging in weekly discussions about course content within discussion boards in Canvas, forums in MOER, or other discussion-based tools.
- Providing group or individual feedback regularly on assignments.
- Promptly responding to student questions about the course sent via email, MOER messaging, or the Canvas inbox.
- Regularly posting announcements about the course content and activities.
- Monitor your academic progress and communicate concerns, as needed.

Response Time

Students can expect a response time of **24-48 hours** for the instructor to respond to messages sent via the Canvas Learning Management System or @maricopa.edu email. Students can expect assignments to be graded within **one week** of the assignment's due date.

Tutoring

SCC's tutors are available online to help with your courses. You may work with an SCC tutor remotely using Google Meet, your phone, or email. Visit the [Tutoring & Learning Centers](#) page for detailed information on the five learning centers' hours and procedures.

If you need to work with a tutor outside regular hours, online and hybrid students now have access to a 24/7 online tutoring service called Brainfuse. To access Brainfuse and begin working with a tutor, visit the [SCC Online Tutoring Services Through Brainfuse](#) page.

MCCCD Policies

MCCCD is committed to providing a safe, fair, and accessible environment for all students. This includes laws such as the ADA and Title IX, which protect against discrimination. These statements explain your rights, available support, and where to go for help or more information. Please review the following policies:

[Classroom Accommodations for Students with Disabilities](#)

[Addressing Incidents of Title IX Sexual Harassment](#)

Students are responsible for the information contained in this syllabus, the Syllabus page in your Canvas course and the **College Policies & Student Services** page found in the First Steps module of your Canvas course. Students will be notified by the instructor of any changes in course requirements or policies.