

Computer-Aided Design Associate of Applied Science Construction Concentration - Building Design Focus Area

Full-Time, Fall Start

www.pima.edu/cad-aas

Learn design principles for commercial and industrial construction projects.

Title IV Financial Aid eligibility: Yes

What can I do with this degree?

Career options: Seek employment as a lead designer in advanced manufacturing firms, design firms, construction and welding firms, and governmental agencies.

Academic Options: This program may apply toward a Bachelor of Applied Science (BAS). See an advisor.

CHOOSE YOUR COURSES WITH YOUR COLLEGE ADVISOR

Placement

Students must meet prerequisite standards before taking GTM105 and GTW101 required in the pathway below. If you are not prepared for these courses based on placement results you will need to take courses to build your skills prior to taking them. The sequence of courses follows.

Math: ICS 081 > GTM 105

Reading: ACL 080 > REA 091

Writing: ACL 080 > WRT 090 > WRT 101 (or WRT 101S can replace both WRT 090 and WRT 101)

If MAT189 is chosen additional coursework may be required. If GTW 101 or WRT 154 is chosen, fewer courses may be required.

Semester Pathway

This pathway is a suggested sequence of courses for your program of study. Work with an advisor to develop a unique pathway for you based on your placement recommendations, any prior college courses, and your specific situation.

General Education Note: When General Education (Gen. Ed.) credits are listed below, select from the appropriate General Education course list linked from the program website. Some programs recommend specific courses.

For this pathway, select one Gen. Ed. course that fulfills the C or G requirement.

Semester 1 - Fall (Semester Total: 15-16 credits)

CAD 101: Computer-Aided Drafting (4 credits)

CAD 151: Computer-Aided Drafting for Construction (4 credits)

Gen. Ed.: CTE Communications list. Recommend WRT 101: English Composition I (3 credits)

MAT 189: Precalculus II (4 credits)
or **GTM 105: Applied** Technical Mathematics (3 credits)

STU 100: College Success and Career Planning (1 credit)

Semester 2 - Spring (Semester Total: 15 credits)

CAD 155: Residential Computer-Aided Design (4 credits)

CAD 157: Introduction to Site Development Drafting and Design (4 credits)

CAD 166: Introduction to Revit (4 credits)

Gen Ed.: CTE Arts & Humanities List. Recommend ART 110: Drawing I (3 credits)

Semester 3 - Fall (Semester Total: 15 credits)

CAD 206: Commercial Design: Revit (4 credits)

CAD 266: Mechanical, Electrical, Plumbing Drafting and Design: Revit MEP (4 credits)

Gen. Ed.: CTE Other Science List. Recommend PHY 1211N: Introductory Physics (4 credits)
or BIO 108IN: Plants, People and Society (4 credits)
or MAC 275 Applied Metallurgy (4 credits)

Technical Electives: Recommend LTP 129: Landscape Design (3 credits)
or BCT 101: Principles of Construction (3 credits)

Semester 4 - Spring (Semester Total: 15 credits)

CAD 256: Advanced Commercial Design: Revit (4 credits)

CAD 265: Design and Drafting for Sustainability (4 credits)

CAD 280: Computer Aided Design Portfolio (1 credit)

Gen. Ed.: CTE Social & Behavioral Sciences List. Recommend: SOC 110: Introduction to Cities and Global Society (3 credits)
or POS 201: American National Government and Politics (3 credits)
or ECN 201: Microeconomic Principles (3 credits)

Technical Electives: Recommend LTP 140: Landscape Sustainability and Water Harvesting (3 credits)
or BCT 102: Building Materials (3 credits)

Program Total: 60-61 credits

Program/Major/Concentration Codes: **AASELECMECHN/CAD1/DFTC**

**Find more information about this program at:
www.pima.edu/cad-aas**