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

Full-Time, Fall Start

www.pima.edu/cad-aas

Prepare to design and develop construction/land use projects using sustainable construction techniques.

Title IV Financial Aid eligibility: Yes

What can I do with this degree?

Career options: Seek employment as lead designer, construction manager with construction firms, design 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 GTM 105 and WRT 101 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 needed.

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. Recommended courses BIO 108IN, or POS 201 (SUN# POS1101), or SOC 110 meet this requirement.

Semester 1 - Fall (Semester Total: 15 credits)
CAD 101: Computer-Aided Drafting (4 credits)
CAD 151: Computer-Aided Drafting for Construction (4 credits)
GTM 105: Applied Technical Mathematics (3 credits) or MAT 189: Precalculus II (3 credits)
Gen. Ed.: CTE Communications list. Recommend WRT 101: English Composition I, SUN# ENG1101 (3 credits)
STU 100: College Study Skills (1 credit)

Semester 2 - Spring (Semester Total: 16 credits)
CAD 155: Residential Computer-Aided Design (4 credits)
CAD 157: Introduction to Site Development Drafting and Design (4 credits)
CAD 167: Introduction to GIS for CAD and Logistics (4 credits)
CAD 127: Introduction to MicroStation (4 credits) or Technical Electives (4 credits)

Semester 3 - Fall (Semester Total: 15-16 credits)

CAD 166: Introduction to Revit (4 credits)

CAD 207: Land Development Design: Civil 3D (4 credits)

Gen. Ed.: CTE Other List, Science courses only. *Recommended* PHY 121IN: Introductory Physics, SUN# PHY1111 (4 credits)
or BIO 108IN: Plants, People and Society (4 credits)
or MAC 275 Applied Metallurgy (4 credits)

Technical Elective: (Complete 4 credits from the Technical Electives list in the catalog) Recommend LTP 129: Landscape Design (3 credits) or BCT 101: Principles of Construction (3 credits)

Semester 4 - Spring (Semester Total: 14 credits)

CAD 257: Advanced Land Development Design: Civil 3D (4 credits)

CAD 280: Computer Aided Design Portfolio (1 credit)

Gen Ed.: CTE Arts & Humanities List. *Recommend* ART 110: Drawing I, SUN# ART1111 (3 credits)

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, SUN# POS1110 (3 credits)
or ECN 201: Microeconomic Principles, SUN# ECN2202 (3 credits)

Technical Electives: (Complete 3 credits from the Technical Electives list in the catalog) *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