

CERTIFICATE IN COMPUTER-AIDED DESIGN (CAD) - ARCHITECTURE AND DRAFTING

This Computer Aided Design (CAD) - Architecture and Drafting Certificate of Achievement provides a foundation for such majors as architecture, drafting and computer-generated imagery (CGI). The student will be prepared for entry level employment in computer-aided design as a CAD (computer-aided design) / draft person.

Learning Outcomes

Certificate of Achievement Level Student Learning Outcomes

Students completing the Computer Aided Design (CAD) – Architecture and Drafting Certificate of Achievement will:

1. Describe effective drafting techniques including graphic communication, orientation, and decision making.
2. Demonstrate the ability to use technology to prepare hand drawings, computer-aided drawings (CAD), and multimedia presentations.
3. Demonstrate planning techniques and administration of document control for design and working drawings.
4. Demonstrate the ability to estimate time, material, labor and equipment for design and working drawings.

Requirements

Code	Title	Units
Strongly recommended preparation:		
DRAF 101	Beginning Computer Aided Design (CAD)	3
or one year of high school drafting or industry drafting experience		
Required courses:		
ARCH 100	Introduction to Architecture and Environmental Design Foundations	3
ARCH 110	Introduction to Design Fundamentals and Communication	4
ARCH 111	Foundation Design	4
DRAF 160	Foundation Digital Design Tools - Intermediate Computer Aided Design (CAD)	3
DRAF 161	Advanced Computer Aided Design (CAD and Design Tools)	3
Select one (1) of the following courses:		
ARCH 102	Visual Communication	2.5
DRAF 102	Visual Communication	2.5

Code	Title	Units
Select one (1) of the following courses:		
ARCH 200	Portfolio Preparation	3
DRAF 103	Advanced Engineering Drawing	3
Total Units		22.5

Curriculum Map

1-Year Curriculum Map Example

This map represents one possible pathway through the program and is only for reference.

*It is highly recommended that you make an appointment (<https://www.citruscollege.edu/stdntsrvcounsel/Pages/ApptSchedule.aspx>) to create a customized education plan that fits your needs.

Course	Title	Units
Fall Term 1		
ARCH 100	Introduction to Architecture and Environmental Design Foundations	3
ARCH 110	Introduction to Design Fundamentals and Communication	4
DRAF 160	Foundation Digital Design Tools - Intermediate Computer Aided Design (CAD)	3
Assumes completion of DRAF 101		
ARCH 102 or DRAF 102	Visual Communication or Visual Communication	2.5
Units		12.5
Spring Term 1		
ARCH 111	Foundation Design	4
DRAF 161	Advanced Computer Aided Design (CAD and Design Tools)	3
ARCH 200	Portfolio Preparation	3
Units		10
Total Units		22.5

Career Information

Career Opportunities

There are a variety of careers you can do with this major.

To explore more about this major, schedule an appointment (<https://www.citruscollege.edu/stdntsrvcounsel/Pages/ApptSchedule.aspx>) with a career counselor.