



## CERTIFICATES

### **Certificate in Computer Aided Design & Drafting (CADD)**

**Total Credit Hours:** 41

**About** Certificate in Computer Aided Design & Drafting (CADD)

Computer Aided Design and Drafting (CADD) systems are used by drafters to prepare electronic drawings that can be viewed, printed, or programmed directly into automated manufacturing systems. Although this system is extensively used by drafters, they also need knowledge of traditional drafting techniques in order to fully understand and explain concepts. The Certificate in Computer Aided Design and Drafting (CADD) program is designed to provide knowledge and skills required for employment as an assistant draft craftsperson. The Certificate in CADD is an area emphasized in the Architecture & Construction Career cluster, one out of 16 career clusters in Career & Technical Education.

#### [REQUIREMENTS FOR CERTIFICATE](#)

##### **Major Requirements**

<b>Course</b>	<b>Course Name</b>	<b>Credits</b>
AE103	Basic Blueprint Reading	3
AE121	Technical Engineering Drawing I	3
AE122	Technical Engineering Drawing II	3
AE138	Building Codes, Specs & Construction Management	3
AE150	Computer Aided Drafting I (CAD I)	3
AE160	Computer Aided Drafting II (CAD II)	3
CE215	Construction Procedures	3
CE225	Construction Planning & Estimating	3
CS101	Introduction to Computer Systems &	3

	Information Technology	
EN110	English Composition	3
MA110A	Finite Mathematics	3
MA161A	College Algebra & Trigonometry I	4
<b>Choose 1 course from the following</b>		
CE121	Properties of Materials	3
AE170	Revit Architecture Essentials	
<b>Certificate Total</b>		<b>40</b>

2019 - 2020 College Catalog

[GENERAL REQUIREMENTS FOR CERTIFICATE](#)

# General Requirements for Certificates

Effective fall Semester 2003, several academic policy changes were implemented to ensure that students are adequately prepared to meet business and industry standards. All Undeclared or newly Declared Students enrolled in regularly scheduled postsecondary courses must be enrolled in or must have completed developmental coursework for Math and English or have successfully placed into post-secondary Math and English (or equivalent).

Students must fulfill the English general education requirement by the time they have enrolled in 12 credits of classes. This means that students may take only nine (9) credits before they must begin meeting the general education requirements. All declared students in Certificate programs will be required to successfully complete minimum general education course requirements. For more information, refer to the Admissions Information, General Education Policy section of this catalog.

## A. General Education Requirements

Students must demonstrate proficiency in reading, writing, understanding and speaking English as indicated by one of the following:

Test out of the English Placement Test (or equivalent), or  
Satisfactory completion of EN096 or EN097 courses

and

Test out of the Math Placement Test (or equivalent), or  
Satisfactory completion of MA098 course

\*Students in the Certificate of Construction Technology program can successfully complete their math requirements with MA094 Mathematics for the Trades in lieu of MA098 Intermediate Algebra.

## B. Major Requirements

Total Major Requirements vary by program.

Minimum Total Credits Required for a Certificate is 30 credits.

\* No course may be counted for both Major and General Education requirements.

\*\* Placement testing is not mandatory for admission to the College. Completion of placement testing of equivalent, however, is required for enrollment into English and mathematics courses. Therefore, students who plan to enroll full-time in a program should take the placement test to be eligible for a full load of courses.

2019 - 2020 College Catalog

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### [Student Learning Outcomes](#)

Upon successful completion of the Certificate in Computer Aided Design & Drafting program, students will be able to:

1. Demonstrate knowledge and skills needed to design and draft projects ranging from two to three dimensional designs for commercial and residential buildings.
2. Demonstrate basic skills needed to view, print, edit, and create variations of two and three dimensional electronic designs.
3. Develop a professional work ethic needed in the architectural engineering industry.

## **Check out some of these amazing Certificate in Computer Aided Design & Drafting (CADD) courses...**

### **AE150 Comp Aided Design & Drafting I**

An introduction to computer aided design and drafting software as a drafting/design tool. This course is designed to introduce students to the use of computers in producing line drawings. Topics include equipment components, terminology, drawing with the computer, storing and retrieving drawings, and printing and plotting. This hands-on course uses the design computer-aided drafting and design software application.

[+ More Info](#) [1]

### **AE121 Technical Engineer Drawing I**

A study of the use of drawing instruments and techniques for mechanical, civil and architectural drawings involving freehand sketches, lettering, orthographic views and pictorial drawings. Skill development will focus on the use of drawing instruments to redraw given drawings calling for accurate measurements with detailed instructions on how to do it. Course offering: As needed.

[+ More Info](#) [2]

### **AE138 Bldg Codes, Specs & Const Mgt**

An interpretation and study of local and national building codes and standards, construction documents and office organization. This course will be of value to anyone who plans to enter, or is presently working in the field of construction.

[+ More Info](#) [3]

You may also be interested in these related Programs...



[4]

[Certificate in Construction Technology - Electricity](#) [4]

The Certificate in Construction Technology Program will prepare students for the current local and global job market with entry-level skills needed for any of the following fields: carpentry; electricity; heating, ventilation, and air conditioning (HVAC); masonry; plumbing; reinforcing metal worker; and welding. All students must successfully pass four (4) core courses (technical related requirements) with a "C" or better before enrolling in one (1) of the seven (7) concentration areas.

[+ More Info](#) [4]



[5]

[Certificate in Construction Technology - Carpentry](#) [5]

The Certificate in Construction Technology Program will prepare students for the current local and global job market with entry-level skills needed for any of the following fields: carpentry; electricity; heating, ventilation, and air conditioning (HVAC); masonry; plumbing; reinforcing metal worker; and welding. All students must successfully pass four (4) core courses (technical related requirements) with a "C" or better before enrolling in one (1) of the seven (7) concentration areas.

[+ More Info](#) [5]



[6]

[Associate of Science in Pre-Architectural Drafting](#) [6]

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The A.S. in Pre-Architectural Drafting covers pre-architecture, building materials and properties, technical drafting, basic computer aided design and drafting (CADD), architectural computer modeling, and an introductory engineering course.

[+ More Info](#) [6]