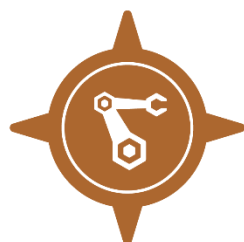


# GUIDED PATHWAY: COMPUTER-AIDED DESIGN ADVANCED OPERATOR CERTIFICATE

MANUFACTURING and INDUSTRIAL TECHNOLOGY CAREER PATH



For more information, visit the [Dallas College Computer-Aided Design and Drafting webpage](http://www.dcccd.edu/CADD) [www.dcccd.edu/CADD] and your academic advisor at your campus.

This is an example course sequence for students interested in pursuing the Computer-Aided Design Advanced Operator Certificate. It does not represent a contract, nor does it guarantee course availability. Following this pathway will help you earn a Computer-Aided Design Advanced Operator Certificate. Students must earn at least 25% of the credit hours required for graduation through instruction by Dallas College. See catalog for [official certificate requirements](#).

This certificate program prepares you to become certified as an advanced CADD operator and enter the work force. Jobs performed would include making 2D and 3D CADD drawings using AutoCAD software. In addition, you would be capable of customizing the AutoCAD program and have additional skills in solid modeling and specific areas of CADD. Courses that complete this level II certificate also complete the [Computer-Aided Design Operator](#) Certificate.

Catalog Year	2020-2021	You may use this pathway if you entered Dallas College on or before this date.
Degree Type	Level II Certificate	
GPA Requirement	Student must earn a GPA of 2.0 or higher	
<a href="#">TSI</a>	Must be Complete	

## SEMESTER-BY-SEMESTER MAP FOR FULL-TIME STUDENTS

All plans can be modified to fit the needs of part-time students. This is not an official degree plan. See catalog for [official certificate requirements](#).

### CERTIFICATE MINIMUM: 43 SEMESTER CREDIT HOURS

#### SEMESTER 1 Total Hours: 14

[DFTG 1409](#) – Basic Computer-Aided Drafting  
**CHOOSE ONE:** [DFTG 1315](#) – Architectural Blueprint Reading *Architecture based coursework* **OR**  
[DFTG 1325](#) – Blueprint Reading and Sketching *Mechanical based coursework*  
**CHOOSE ONE:** [DFTG 1405](#) – Technical Drafting *Mechanical based coursework* **OR**  
[ARCE 1421](#) – Architectural Illustration *Architecture based coursework*  
**CHOOSE ONE:** [MATH 1324](#) – Mathematics for Business and Social Sciences *This is a Core course. Must earn a grade of "C" or better.* **OR**  
[MATH 1314](#) – College Algebra *This is a Core course. Must earn a grade of "C" or better.*

#### SEMESTER 1 ACTION ITEMS

1. Meet with your advisor to confirm your academic/career goals before the end of the semester.
2. Meet with a career advisor or coach to research your career options and opportunities for job shadowing.

#### SEMESTER 2 Total Hours: 14

[DFTG 2419](#) – Intermediate Computer-Aided Drafting  
[DFTG 1417](#) – Architectural Drafting-Residential  
[ENGL 1301](#) – Composition I *This is a Core course. You must earn a grade of "C" or better.*  
**CHOOSE ONE:** \* [ARCE 1303](#) – Architectural Materials and Methods of Construction  
[DFTG 1315](#) – Architectural Blueprint Reading  
[DFTG 1325](#) – Blueprint Reading and Sketching  
[DFTG 1329](#) – Electro-Mechanical Drafting **OR**

## DFTG 2321 – Topographical Drafting

\* There are additional courses that can be selected. Speak with academic or faculty advisors for specific list. The following courses will **NOT** count toward the Computer-Aided Design Operator Certificate: DFTG 1333, DFTG 1340, DFTG 2381, INMT 1343

### **SEMESTER 2 ACTION ITEMS**

1. Meet with your advisor to request an official program of study audit and confirm or update your academic/career path and program of study.
2. Apply for Computer-Aided Design Operator Certificate Completion.
3. Meet with a faculty or career advisor regarding placement for the Cooperative Education course, if applicable

## **SEMESTER 3**

**Total Hours: 15**

DFTG 1445 – Parametric Modeling and Design

DFTG 2428 – Architectural Drafting-Commercial

DFTG 2438 – Final Project-Advanced Drafting *This is the capstone experience.*

**CHOOSE ONE:** ARTC 1302 – Digital Imaging I\*

ARTC 1325 – Introduction to Computer Graphics\* **OR**

DFTG 2380 – Cooperative Education-Drafting and Design

\* There are additional courses that can be selected. Speak with academic or faculty advisors for specific list.

### **SEMESTER 3 ACTION ITEMS**

1. Meet with a career advisor or coach for assistance in preparing for job search.
2. Meet with your advisor to apply for the Computer-Aided Design Advanced Operator Certificate Completion

**PATHWAY TOTAL: 43-44 SEMESTER CREDIT HOURS**