

# MANUFACTURING TECHNOLOGIES, CERTIFICATE OF ACHIEVEMENT

## Drafting Technologies

The Certificate of Achievement, Manufacturing Technologies, Drafting Technology is designed to provide training and technical job skills to students seeking employment and/or skill upgrades. A drafting technician works with designers and engineers within a variety of industries including manufacturing, architecture, construction, and landscaping. The program is competency-based. Students complete a variety of hands-on learning exercises ranging from manually drafted drawings to advanced computerized two and three-dimensional wireframe and solid modeling projects.

### Outcomes

Students completing the certificate will:

- Demonstrate a basic knowledge of drafting theory as it relates to working with designers and engineers within a variety of industries including manufacturing, architecture and construction.
- Prepare technical drawings and presentations demonstrating understanding of manual drawing and CAD techniques.

### Gainful Employment

While all of the educational programs at Truckee Meadows Community College are designed to lead to either employment or transfer, the Department of Education requires that we provide information on specific certificate programs. More information on Gainful Employment (<http://www.tmcc.edu/financial-aid/consumer-information/gainful-employment>) is available on the TMCC website. We hope this information is helpful to you as you make your career and educational choices.

Certificates of Achievement are a set of courses that can serve as a stepping stone to an associate degree or allow students to enter the workforce. Certificates of Achievement have a general education component.

To earn a Certificate of Achievement, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 semester credit hours within the college.
3. Satisfy General Education requirements for the AAS (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>).
4. Have no financial or library obligation to the college.

Code	Title	Units
<b>General Education Requirements</b>		
<i>Communications</i>		3
Recommended:		
ENG 107	Technical Communications I	
<i>Human Relations</i>		3
Recommended:		
CE 201	Workplace Readiness	
<i>Mathematics</i>		3

Recommended:

MATH 120	Fundamentals of College Mathematics (or higher)	
<b>Certificate Requirements</b>		
CADD 100	Introduction to Computer-Aided Drafting	3
CADD 105	Intermediate Computer-Aided Drafting	3
CADD 140	Technical Drafting I	3
CADD 210	CADD Project	3
DFT 100	Basic Drafting Principles	3
DFT 110	Print Reading for Industry	3
IS 101	Introduction to Information Systems	3
<b>Elective Requirements</b>		
Select 3 units from remaining CADD or DFT courses		3
Total Units		33
<b>1st semester</b>		
CADD 100	Introduction to Computer-Aided Drafting	3
DFT 100	Basic Drafting Principles	3
DFT 110	Print Reading for Industry	3
IS 101	Introduction to Information Systems	3
Mathematics <sup>1</sup>		3
Semester Total		15
<b>2nd semester</b>		
CADD 105	Intermediate Computer-Aided Drafting	3
CADD 140	Technical Drafting I	3
Communications <sup>1</sup>		3
Human Relations <sup>1</sup>		3
Semester Total		12
<b>3rd semester</b>		
Elective <sup>2</sup>		3
CADD 210	CADD Project	3
Semester Total		6
Total Units		33

<sup>1</sup> See approved General Education list for the AAS Degree. (<http://catalog.tmcc.edu/degrees-certificates/general-education/aas>)

<sup>2</sup> See program recommendations or requirements.