

COMPUTER-AIDED DRAFTING, CERTIFICATE OF COMPETENCY (DDTC)

Effective: Fall 2003

In this program, students will learn to manage computer systems for drawing production, information storage, retrieval and communication in the engineering and design workplace. As they develop computer aided drafting skills, they will explore manufacturing, mechanical and architectural engineering and construction applications.

This program is intended, primarily, to serve as computer training for individuals who have previous experience as manual "board" drafters and who already possess a working knowledge of technical drawings. However, though there is no requirement of prior technical experience, individuals desiring an elementary introduction to the fields of engineering drafting and design will be well served by this curriculum.

Students may, through the use of specified course alternatives, choose to pursue a basic 2D option with added emphasis in elementary blueprint reading and construction applications, or a 3D parametric modeling option with emphasis on advanced software features and mechanical/manufacturing applications.

Program Outcomes

- Create two- and three-dimensional technical design models and drawings to document solutions for defined customer problems.
- Use CAD tools in applying the principles of descriptive geometry and the techniques of graphic construction to the process of documenting design intent.
- Execute computer generated plane and 3D geometric forms, as well as object viewing techniques, to describe and present a design concept.
- Apply CAD tools and techniques in the execution of working, multiview, assembly and 3D model drawings.

Full-Time Academic Plan

The College will award a certificate of competency to students who complete an approved credit-bearing career program that requires less than 30 credits. General education courses may not be required for programs that have less than 30 credits. The student must have a cumulative GPA of 2.0 or higher. At least six credit hours must be in courses that are awarded grade points.

First Semester	Hours
TCC 112 CADD Graphics	3
TCC 121 Project Management Processes	3
TCC 122 2-D CADD	3
TCS 100 Construction Blueprint Reading or ARC 121 or Architectural Graphics I	3
TDD 216 Three Dimensional CADD or TDD 227 or Advanced CADD	3
Hours	15
Total Hours	15

Part-Time Academic Plan

Code	Title	Hours
First Semester		
TCC 112	CADD Graphics	3
TCC 122	2-D CADD	3
Second Semester		
TCC 121	Project Management Processes	3
TCS 100 or ARC 121	Construction Blueprint Reading Architectural Graphics I	3
Third Semester		
TDD 216 or TDD 227	Three Dimensional CADD Advanced CADD	3
Total Hours		15

Career

Career Information for this Program

Computer-Aided Drafting (Certificate)

Career Coach

Browse or search for careers and we will give you relevant data on wages, employment, and the training you need.

DCCC Career and Counseling Services

Faculty and staff in Career & Counseling Services are eager to help you become successful in college and in life. We offer services to assist you at any point in your academic journey and we tailor our approach to meet your individual needs.