



Computer-Aided Design

Program **CMPTR.CAD.CERT**
CIP 151301

Certificate of Proficiency

The Computer-Aided Design (CAD) certificate program prepares students for entry-level positions as CAD technicians in business, industry and government. CAD technicians generally work in the offices of manufacturing, construction, and architectural firms developing complete sets of working drawings and plans.

PROGRAM OUTCOMES

- Present technical information in graphic form from oral or written instructions;
- Prepare complete working and assembly drawings of manufactured parts;
- Develop both two- and three-dimensional views of technical objects or assemblies;
- Accurately dimension various objects, assemblies, or structures;
- Produce finished plots of drawings for both internal and external use.

Admission requires a high school diploma or its equivalent. Prior exposure to drafting or CAD is helpful, but not necessary. This program is intended primarily for part-time beginning students or for those currently working in the field who wish to upgrade their skills. Some required courses may be offered only during the evening, and some may be offered only in alternate semesters. It is essential that students plan ahead in consultation with the program coordinator.

MCCC is located near major engineering and architectural firms which provide employment opportunities for qualified graduates.

Curriculum

Code	Course (lecture/lab hours)	Credits
BCT 101	Construction Graphics (2/2)	3-4
	OR	
DRA 190	Introduction to Computer-Aided Drafting (1/2) ¹	2
	AND	
ENT 116	Engineering Graphics (1/2)	2
DRA 191	Introduction to Building Information Modeling (1/2)	2
DRA 238	Advanced Computer-Aided Design (2/2)	3
ENG 101	English Composition I (3/0)	3
— —	Technical electives ²	15-16
— —	Elective	3
		29-31

¹ Students with AutoCAD experience should consult with program coordinator for possible advanced placement.

² Select from ARC 104; BCT 110; CIV 101, 102; DMA 120; DRA 218, 248.