



Monroe Community College

STATE UNIVERSITY OF NEW YORK

Inspiring every day.



SCHOOL OF APPLIED SCIENCES & TECHNOLOGIES

Computer-Aided Design and Drafting Certificate

DESIGN A GREAT CAREER IN TODAY'S MANUFACTURING

ENVIRONMENTS. Computer-aided design has come a long way. Today, designers generate 3-view drawings, and create 3D prototypes and models. By completing the Computer-Aided Design and Drafting (CADD) certificate, you can be skilled and ready to start your career in just one year. Work in a wide range of environments and applications, including industry, machine shops, and robotics.

PROGRAM DESCRIPTION

This certificate program will prepare you for entry-level employment in the challenging Computer Aided Design and Drafting field. You'll learn basic geometric creation, geometric data management, communications, manufacturing process interfaces, rapid prototyping, design optimization, and design analysis. All courses meet the national standards for drafting and geometric dimensioning and tolerancing (GDT), giving you excellent preparation for modern manufacturing and assembly processes.

A STRONG START—ACADEMICALLY AND FINANCIALLY!

MCC's low tuition plus financial aid opportunities help make a high-quality education affordable. You could qualify for federal grants, workforce grants, scholarships, and more. Visit www.monroecc.edu/go/financial or call 585.292.2050.

APPLY TODAY!

To learn more about MCC, visit us on the web at www.monroecc.edu. Apply today at admissions.monroecc.edu or contact the Admissions Office at 585.292.2200 to schedule a visit.

WHERE WILL YOU GO?

Start your career with employers like these:

- Excelis
- Bosch Security Systems
- Ultralife Corporation
- Harris Corporation
- KCI Technologies

Your job title could be:

- Commercial and Industrial Designer
- Mechanical Drafter
- Architectural and Civil Drafter
- Draftsperson
- Designer/CADD

"I liked being challenged to design within tight tolerances. The 3D modeling was also pretty amazing."

– Rick W., MCC student



**GET THE LATEST ON CAREERS IN OUR AREA, INCLUDING
EMPLOYMENT PROJECTIONS, EARNINGS, AND JOB OPENINGS AT
CAREERCOACH.MONROECC.EDU**

CURRICULUM OVERVIEW

COMPUTER AIDED DESIGN AND DRAFTING CERTIFICATE

Distribution Requirements	Credit Hours
FIRST SEMESTER: 13 Credit Hours	
ENR 153 Mechanical Design and Prototyping	4
MET 101 Technical Graphics	3
MTH 104 Intermediate Algebra	4
TEK 101 Computer Applications for Technicians	2
Total	13
SECOND SEMESTER: 12 Credit Hours	
ENG 101 College Composition OR ENG 200 Advanced Composition	3
MET 122 Adv Solid Modeling using SolidWorks	3
MET 201 Designing for Materials, Manufacturing and Assembly	3
MET 202 Functional Design, Drafting and Analysis OR TECHNICAL ELECTIVE*	3
Total	12
TOTAL CREDITS	25

*Technical Electives include: CIT 112; MET; TAM 151.