



Monroe Community College

STATE UNIVERSITY OF NEW YORK

Inspiring every day.



SCHOOL OF APPLIED SCIENCES & TECHNOLOGIES

Mechatronics Certificate

COMBINE MANY INTERESTS INTO ONE FASCINATING CAREER.

If you'd like a job where every day is different, this unique, interdisciplinary program—designed in partnership with industry leaders—is for you. This program combines the principles of electrical-mechanical and computer control used by highly-skilled maintenance technicians working in automated manufacturing. Through MCC's Mechatronics Certificate, you'll learn the most current processes and techniques, work on new, high-tech equipment, and participate on team projects that simulate industry scenarios. Given MCC's reputation for excellence in technical training, you'll graduate well prepared for success in today's manufacturing job market.

PROGRAM DESCRIPTION

The Mechatronics Certificate prepares graduates for entry-level positions that involve the operation and maintenance of electro-mechanical-computer controlled systems commonly found in automated manufacturing environments. Systems-level analysis, assembly, and troubleshooting techniques are stressed with hands-on laboratory experiences that complements classroom-based instruction. This certificate represents the first half of the Applied Integrated Technology A.A.S degree program. Upon completion, you can enter the job market or transfer your credits toward the associate degree.

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/finaid 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.



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

WHERE WILL YOU GO?

Start your career with employers like these:

- CooperVision
- Gleason Corporation
- Harris Corporation
- LeDestri Foods

Your job title could be:

- Equipment Maintenance Technician
- Electro-Mechanical Technician
- Industrial Equipment Maintenance Technician
- Robotics Technician

"This program was designed specifically for industry opportunities that are opening up now."

– Matt Fetzner, Chair/Engineering Technologies

CURRICULUM OVERVIEW

MECHATRONICS CERTIFICATE

Distribution Requirements	Credit Hours
FIRST SEMESTER: 15 Credit Hours	
ELT 130 System Electricity	3
ELT 134 Introduction to Programmable Logic Controller	3
MET 107 Mechanical Systems	3
MET 110 Hydraulics and Pneumatics	3
MTH 140 Technical Mathematics	3
Total	15
SECOND SEMESTER: 15 Credit Hours	
ELT 231 System Control Electronics	3
ELT 234 Advanced Programmable Logic Controllers	3
MET 101 Technical Graphics OR MET 121 Computer Aided Drafting/Design - Solid Modeling	3
MET 250 Mechatronics System	3
TAM 138 Dimensional Metrology	3
Total	15
TOTAL CREDITS	30