



Monroe Community College

STATE UNIVERSITY OF NEW YORK

Inspiring every day.



SCHOOL OF APPLIED SCIENCES & TECHNOLOGIES

Applied Integrated Technology A.A.S.

COMBINE MANY INTERESTS INTO ONE FASCINATING CAREER.

Today's manufacturing is all about using electronics, mechanical systems, and computers in ingenious new ways. MCC's Applied Integrated Technology A.A.S. will make you a state-of-the-art technician for the installation, operation, and maintenance of these integrated industrial processes, also known as *mechatronics*. Given MCC's reputation for excellence in engineering instruction, you'll be well prepared for success in today's job market.

PROGRAM DESCRIPTION

Through classes, labs, and group projects, you'll learn to integrate electrical, mechanical and computer controls, including robotics. Extensive hands-on laboratory experience and interesting team projects will simulate actual industry scenarios. You'll graduate with the qualifications you need for a career as a technician in a wide variety of industrial and manufacturing settings.

Students who complete MCC's Mechatronics Certificate may transfer their credits to this degree program. Talk with a program advisor to make sure your course selections meet program requirements and your career goals.

A STRONG START—ACADEMICALLY AND FINANCIALLY!

MCC's low tuition (\$2,050 per semester) 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:

- ITT Gould Pumps
- Ortho Clinical Diagnostics
- LiDestri Food & Drink
- Gleason Corporation
- Harris Corporation

Your job title* could be:

- Industrial Maintenance Technician
- Automated Equipment Technician
- Electro-Mechanical Technician
- First-Line Production Supervisor

**Educational or experience requirements may vary.*

"The AIT program was designed to provide industry with multi-skilled professionals."

– Matt Fetzner
Chair/Engineering Technologies

CURRICULUM OVERVIEW

APPLIED INTEGRATED TECHNOLOGY A.A.S.

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 Pneumatics	3
MTH 140 Technical Mathematics I OR higher*	3
Total	15
SECOND SEMESTER: 16 Credit Hours	
ENG 101 College Composition OR ENG 200 Advanced Composition	3
MTH 141 Technical Mathematics II*	3
ELT 231 Systems Control Electronics	3
ELT 234 Advanced Programmable Logic Controllers	3
TEK 101 Computer Applications for Technicians	2
PHYSICAL/HEALTH EDUCATION	2
Total	16
THIRD SEMESTER: 16 Credit Hours	
ENG 251 Technical Writing	3
MET 101 Technical Graphics OR MET 121 Computer Aided Drafting/Design - Solid Modeling	2
PHY 131 Applied Physics I OR PHY 145 College Physics I	4
TAM 138 Dimensional Metrology	3
HUMANITIES ELECTIVE	3
Total	16
FOURTH SEMESTER: 15 Credit Hours	
CEL 200 General Internship OR PROGRAM ELECTIVE**	3
MET 206 Engineering Materials	3
MET 250 Mechatronics Systems	3
SOCIAL SCIENCE ELECTIVE	3
PROGRAM ELECTIVE**	3
Total	15
TOTAL CREDITS	62

*MTH 140 and MTH 141 is a sequence. Students who plan to transfer to a four-year program may wish to substitute the three course sequence MTH 160 (3 cr.), MTH 164 (1 cr.) and MTH 165 (3 cr.). Students not proficient in algebra or trigonometry should take MTH 135 preferably in Summer Session prior to starting Applied Integrated Technology. Students with excellent high school math records may wish to select a more advanced math program following consultation with the Mathematics Department.

** Program Elective: Any course in ELT, MET, OPT or see department chairperson for substitution waiver.