

My favorite part of the program is actually working with the equipment. I'm very confident with what we're being taught and the ability to take it out into the real world and use it.

—Charles K., Mechatronics Student

What is Mechatronics?

From ATMs to gas pumps ... from bottling plants to critical defense systems ... from automotive assembly to the medical industry ... Mechatronics is in every aspect of modern life. But what is it?

A melding of science and technology, Mechatronics integrates mechanical, electronic, fluid power (hydraulics and pneumatics), computer and robotics technologies to streamline processes and improve quality in manufacturing and related areas.

Macomb Community College's Automated Systems Technology—Mechatronics Program will prepare you for a rewarding and exciting career in one of the most dynamic and fastest-growing fields in manufacturing.



Automated Systems Technology—Mechatronics

at Macomb Community College



The Program

You'll get your hands on the latest industrial-grade equipment, along with computer simulation software. You'll see the simulations respond to your commands and then watch the real machine do it.

Your studies begin with courses in mechanics, sensors, basic electronics, pneumatics, control logic, and robot programming and control. You'll go on to learn how to program a specific Programmable Logic Controller (PLC), and then write and troubleshoot programs to control seven machines. The seven tasks—Pick and Place Feeding, Gauging, Indexing, Sorting and Queuing, Servo Robot Assembly, Torquing, and Parts Storage—are integrated into an assembly line that produces a real product.

Requirements and Specific Information

Articulation agreements (available for viewing at www.macomb.edu) allow students to get Macomb credit for related high school courses. Contact your high school counselor for details, or call the Engineering Technology Office at 586.445.7435.

To learn more about the Automated Systems Technology—Mechatronics Program at Macomb, contact the Engineering Technology Office, 586.445.7435, or the program advisors: Professor Kenneth Dulinski at 586.445.7248, or Professor Jennifer Seger, 586.445.7326.



**Macomb
Community College**

Education • Enrichment • Economic Development

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ADVANCED MANUFACTURING AND DESIGN

Discover the Advanced Manufacturing and Design Program that's right for you!

- CNC Machining (Advanced Processes)
- Automated System Technology—Mechatronics
- Fluid Power Technology
- Manufacturing Engineering
- Manufacturing Engineering Technology
- Product Development—Digital Sculptor
- Robotics
- Welding



YOU HAVE OPTIONS

As a Macomb student, you are able to plan a personalized pathway that takes you through your time at Macomb, and beyond. You're encouraged to speak with the academic advisor for Engineering & Advanced Technology as soon as possible after you have applied to Macomb, to discuss appropriate classes, transfer of credits to a four-year school, and other decisions that lie ahead.

South Campus
Building S, Room 145
586.445.7993

Email: answer@macomb.edu

LOOKING FOR A JOB?

Contact Career Services
586.445.7321
careerservices@macomb.edu

For general information about Macomb Community College, visit www.macomb.edu call 866.Macomb1 (866.622.6621) or email answer@macomb.edu.



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Employment Outlook

With an associate degree, you will be qualified for careers including electrical/electronics engineering technician. Median salary for these careers is \$54,360 in Michigan with 6 percent growth in openings expected through 2024. You will also be qualified for careers including engineering technician. Median salary for these careers is \$58,030 in Michigan with 13 percent growth in openings expected through 2024. You will also be qualified for careers including electronic technician, mechanical technician, automation technician, and electrical and instrumentation (E&I) technician. Median salary for these careers is \$64,730 in Michigan with 13 percent growth in openings expected through 2024.

Gainful Employment Disclosure

For information about program cost, on-time completion rates, typical student debt, and other important information, visit: Automated Systems Technology-Mechatronics, Certificate: <http://www.macomb.edu/ge/ASTMECTCT/>



Two years at Macomb equals a tremendous savings—about \$18,000—compared to attending a Michigan four-year public university. Approximately 80 percent of Macomb students leave the college DEBT FREE.