

MECHATRONIC

mtt.missioncollege.edu

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Mechatronic Technology: Certificate of Achievement (CA)

Mechatronic technology is an interdisciplinary field that combines the study of mechanics, electronics, automation, and computers. Certificate of Achievement in Mechatronic Technology prepares students to work in various industries. Depending on the course track selected, students gain specialized technical skills in electrical, electronic and/or mechanical industry environment.

Program Learning Outcomes:

- Analyze and integrate electrical, electronic, and mechanical systems and devices.
- Demonstrate written and verbal communication skills through technical documentation and oral presentations.
- Troubleshoot and repair electrical, electronic, and mechanical systems and devices.

Career Opportunities:

Career opportunities include the following: robotics technician, field service technician, industrial maintenance technician, engineering technician, electromechanical technician, research and development technician.

To earn this certificate, students must complete the minimum required courses with a grade of C (or P) or better.

Core Requirements (4 units): Complete all of the following

	Units
MTT 010 Introduction to Technology and Careers	2.0
MTT 012 Electronic Systems Measurement and Troubleshooting	2.0

Elective (14 units):

Complete a minimum of 14 units from the following

	Units
EGR 025 Engineering Graphics and Design	4.0
MTT 020 PLC Process Control Systems	2.0
MTT 022 PLC and Robotic System Components	2.0
MTT 030 Electrical Motors and Control Systems	2.0
MTT 032 Microcontroller Systems	2.0
MTT 034 Fluid Power Systems	2.0
MTT 040 Analog Circuits and Semiconductor Devices	2.0
MTT 042 Digital Logic Systems	2.0
MTT 050 Digital Manufacturing	2.0

Total Required Units:

18.0-24.0

