

# ROBOTICS CERTIFICATE

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The Robotics Certificate prepares students to operate, maintain, and troubleshoot industrial robots. Students will use a variety of robot types to prepare for different industrial robotics applications, and they will also complete their Fanuc robot certification—a highly desired third-party credential.

## Program Learning Outcomes


Upon completion, the student will be able to:

1. Develop programs to control industrial robots for a variety of applications.
2. Recognize the application of problem-solving techniques.
3. Describe and apply safety rules while working on robots.
4. Analyze the technical specifications of manufacturing systems, modules, and components.
5. Perform as part of a team to complete a complex automated systems project.

### Technical Standards

See here for details.

## Robotics

Code	Title	Hours
AMT 1020	Preventive Maintenance	2
IMT 1911	Technical Math I	3
CPT 1250	Computer Applications in the Workplace	3
AMT 1040	Blueprint Reading and Schematics	2
or MET 1000	Engineering Graphics with AutoCAD	
AMT 1070	Basic Electricity and Electronics	3
EET 1110	Circuit Analysis I	3
FMS 2110	Basic Robotics and Mechatronics	3
EET 1330	Digital Circuits	4
FMS 2130	Industrial Mechatronics and Robotics	3
AMT 2050	Robot Maintenance	3
AMT 2970 	Troubleshooting Capstone	3
<b>Total Hours</b>		<b>32</b>