



Robotics and Automated Technology C.C.

Curriculum Code: 1789

Effective: Fall 2021 – Summer 2026

Description

A student who completes this certificate will have the skills necessary for an entry level position in robotics and automated systems. Students will be able to write and edit programs on industrial robots and repair and maintain fluid power systems.

Additional Information

Students who have already completed DCTM 102, ELTE 102, HVAC 102 or WELD 102 with a grade of 2.0 or higher may substitute one of these courses for METS 102. Any of these courses may also be used to fulfill the prerequisite for the ELTE and METS courses.

Contact Information

Contact the Center for Manufacturing Excellence at the West Campus Building, 5708 Cornerstone Drive, Lansing MI 48917, Room M103, telephone number 517-483-1104 or by [email](mailto:manufacturing@lcc.edu) (manufacturing@lcc.edu).

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
ELTE 108	Practical Electricity I	2 / 3
ELTE 129	Machine Controls 1-A	2 / 2.5
METD 150	Industrial Blueprint Reading	3 / 3
METS 102	Industrial/Construction Safety	2 / 3
METS 125	Intro to Hydraulics/Pneumatics	4 / 6
METS 160	Introduction to Robotics	3 / 4.5

Total Credit Hours

16 credits / 22 billing hours

Recommended Course Sequence

Semester I	Semester II
ELTE 108 (First 8 weeks)	ELTE 129 (Second 8 weeks)
METS 102	METD 150
METS 160	METS 125