

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Robotics and Automated Technology
Certificate of Completion

Curriculum Code: 1789 (Effective Fall 2017 – Summer 2022)

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.

PREREQUISITES

Students should see [Course Descriptions](#) for course prerequisite information. See [Academic Assessment and Placement Testing for Student Success](#) for skills assessment and advising information.

INFORMATION

Contact the Center for Manufacturing Excellence, West Campus Building, 5708 Cornerstone Drive, Lansing MI 48917, Room M103, telephone number (517) 483-1104 or by email at manufacturing@lcc.edu. View our website at <http://www.lcc.edu/cme/> for more information.

REQUIREMENTS

CODE	TITLE	TOTAL: 16 CREDITS CREDIT HOURS
ELTA 120	AC Fundamentals–Electrician	2
ELTE 108	Practical Electricity I (See Note 1)	2
METD 150	Industrial Blueprint Reading	3
METS 102	Industrial/Construction Safety (See Note 1)	2
METS 125	Intro to Hydraulics/Pneumatics (See Note 1)	4
METS 160	Introduction to Robotics (See Note 1)	3
MINIMUM TOTAL		16

NOTES:

1. 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 classes may also be used to fulfill the prerequisite for ELTE 108, METS 125 and METS 160.
2. To receive a certificate of achievement from Lansing Community College, a student must maintain a grade point average of 2.0 or above in the courses required for the certificate.

SUGGESTED COURSE SEQUENCE

Students should see course descriptions to find out when departments plan to offer courses. Students who for any reason are unable to follow the course sequence suggested below (for example, those who are part-time, have transferred in courses from another school, or have prerequisites to fulfill) should contact an academic advisor for help with adjustments.

I	II
ELTA 120	METD 150
ELTE 108	METS 125
METS 102	METS 160