

LANSING COMMUNITY COLLEGE

CURRICULUM GUIDE

Automated Systems Technology
Certificate of Achievement

Curriculum Code: 1605 (Effective Fall 2015 – Summer 2020)

A student who completes this certificate will be exposed to the elements of automated systems design and installation needed to obtain employment in various settings including those within the manufacturing and industrial sectors. Students will be able to maintain, troubleshoot, test, and repair modern-day equipment having a technologically diverse design.

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 Applied Manufacturing Technologies Program, West Campus Building, Room M103, telephone number (517) 483-5338 (Website: www.lcc.edu/manufacturing/met_systems/) or Student Services West Campus, West Campus Building, Room M106, telephone number (517) 267-5452.

REQUIREMENTS

CODE	TITLE	TOTAL: 31 CREDITS CREDIT HOURS
ELTE 110	Practical Electricity (See Note 1)	3
ELTE 111	Intro to Industrial Automation	4
ELTE 131	Machine Controls I (See Note 1)	4
MATH 114	Technical Math I	4
METS 102	Industrial/Construction Safety (See Note 1)	2
METS 105	Handtools and Measurements (See Note 1)	3
METS 110	Mechanical Power Transmissions (See Note 1)	4
METS 125	Intro to Hydraulics/Pneumatics (See Note 1)	3
METS 150	Robotics & Automated Control (See Note 1)	4
MINIMUM TOTAL		31

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 110, ELTE 131 and all the METS courses on this curriculum.
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
ELTE 110	ELTE 111
MATH 114	ELTE 131
METS 102	METS 110
METS 105	METS 150
METS 125	