

# LANSING COMMUNITY COLLEGE

## CURRICULUM GUIDE

Automated Systems Technology  
Certificate of Achievement

Curriculum Code: 1605 (Effective Fall 2016 – Summer 2021)

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/](http://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<br>CREDIT HOURS |
|----------------------|---|-----------------------------------|
| ELTA 120             | AC Fundamentals - Electrician               | 2                                 |
| ELTE 108             | Practical Electricity I (See Note 1)        | 2                                 |
| ELTE 131             | Machine Controls I (See Note 1)             | 4                                 |
| MATH 115             | Technical Math II                           | 4                                 |
| METD 105             | PC Applications for Technology              | 3                                 |
| METD 150             | Industrial Blueprint Reading                | 3                                 |
| METS 102             | Industrial/Construction Safety (See Note 1) | 2                                 |
| METS 110             | Mechanical Power Transmissions (See Note 1) | 4                                 |
| METS 125             | Intro to Hydraulics/Pneumatics (See Note 1) | 4                                 |
| METS 145             | Automated Systems (See Note 1)              | 3                                 |
| <b>MINIMUM TOTAL</b> |   | <b>31</b>                         |

**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 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.

| <b>I</b> | <b>II</b> |
|----------|-----------|
| ELTE 108 | ELTA 120  |
| MATH 115 | ELTE 131  |
| METD 150 | METD 105  |
| METS 102 | METS 110  |
| METS 125 | METS 145  |