

## LANSING COMMUNITY COLLEGE

### CURRICULUM GUIDE

Mechanical Systems  
Certificate of Achievement

Curriculum Code: 0147 (Effective Fall 2011 – Summer 2016)

This program provides technical knowledge and skills in the adjustment, maintenance, part replacement, and repair of tools, equipment and machines. It prepares an individual for an entry-level position.

#### PREREQUISITES

Students should see *Course Descriptions* or *Course Offerings* for course prerequisite information. See the *Assessment and Placement Testing* section 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 CREDIT HOURS
ELTE 110	Practical Electricity (See Note 1)	3
METD 150	Industrial Blueprint Reading	3
METM 110	Intro to Precision Machining	4
METS 102	Industrial/Construction Safety (See Note 1)	2
METS 110	Mechanical Power Transmissions (See Note 1)	4
METS 130	Industrial Hydraulics (See Note 1)	4
METS 140	Rigging (See Note 1)	3
METS 210	Lubrication and Bearings (See Note 1)	4
WELD 103	Combination Welding	4
<b>MINIMUM TOTAL</b>		<b>31</b>

#### NOTES:

1. Students who have already completed 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 four courses may also be used to fulfill the prerequisite for ELTE 110, METS 110, METS 130, METS 140, and METS 210.
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**

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ELTE 110  
METD 150  
METS 102  
METS 110  
WELD 103

**II**

METM 110  
METS 130  
METS 140  
METS 210