

LANSING COMMUNITY COLLEGE

Computer, Engineering/Manufacturing Industrial Technologies

Curriculum Code: 0156
 (Effective Fall 2018 –
 Summer 2023)

Welding Technology C.A. Pathway

Students receive hands-on instruction in the basics of MIG, TIG, shielded metal arc, brazing and oxy-fuel cutting, and plasma cutting to prepare them for entry-level positions.

For More 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 at manufacturing@lcc.edu.

Semester I	Course Title	Prerequisites	Credit/Billing Hours
------------	--------------	---------------	----------------------

Program of Study Requirements

Students who have already completed DCTM 102, ELTE 102, HVAC 102, or METS 102 with a grade of 2.0 or higher may substitute one of these courses for WELD 102. Any of these courses may also be used to fulfill the prerequisite for METS 140.

WELD 102	Industrial/Construction Safety	Reading Level 3 and Writing Level 2	2 / 3
WELD 103	Combination Welding	Reading Level 3 and Writing Level 2	4 / 6
WELD 110	Gas Metal ARC Welding	Reading Level 3 and Writing Level 2	4 / 6
Credits			10 / 15

Semester II	Course Title	Prerequisites	Credit/Billing Hours
-------------	--------------	---------------	----------------------

Program of Study Requirements

WELD 105	Advanced ARC Welding	Minimum 2.0 in WELD 103 and Reading Level 3 and Writing Level 2	4 / 6
WELD 111	Gas Tungsten ARC Welding	Minimum 2.0 in (WELD 103 or AUTO 100 or AUTO 114) and Reading Level 3 and Writing Level 2	4 / 6
WELD 125	Structural Blpt Reading/Weld	Reading Level 3 and Writing Level 2 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	2 / 2
Credits			10 / 14

Semester III	Course Title	Prerequisites	Credit/Billing Hours
Program of Study Requirements			
METM 190	Metallurgy and Heat Treatment	Reading Level 5 and Writing Level 6 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	4 / 6
METS 140	Rigging	Minimum 2.0 in (METS 102 or DCTM 102 or ELTE 102 or HVAC 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and (Math Level 4 or minimum 2.0 in MATH 105 or MATH 106)	3 / 4.5
WELD 220	Structural Fab & Inspection	Minimum 2.5 in (WELD 105 and WELD 110 and WELD 125) and Reading Level 3 and Writing Level 2 and Math Level 4	4 / 6
Credits			11 / 16.5
Total Credits			31 / 45.5