

 	ONE-YEAR CERTIFICATE INDUSTRIAL MAINTENANCE	2021 Catalog Effective Summer 2020
	<i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.</i>	4352

Engineering Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT139	Introduction to Robotics	2		
MST134	Hydraulic and Pneumatic Systems [^]	6	MTH022 or MTH023 or Proficiency	
MST221	Mechanical Drive Components	3		
AIT220	Industrial Robotics	4	AIT139	
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 or Pre-Co-MTH135	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
MST127	Principles of Welding	3	Co-MST128	
MST128	Welding Laboratory	3	Co-MST127	
Total		28		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
MTH125	College Algebra [^]	4	MTH025 or MTH023 or Proficiency	
Total		5		
TOTAL CREDIT HOURS		33		

[^]Based on SSC placement scores.

^{^^}To promote student success, this course should be taken in the first semester.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101 Student Success Seminar^^	1	<i>Take first semester</i>
EET120 DC Circuit Analysis	4	Pre-Co-MTH125 or Pre-Co-MTH135
AIT139 Introduction to Robotics	2	
MST127 Principles of Welding	3	Co-MST128
MST128 Welding Laboratory	3	Co-MST127
MTH125 College Algebra^	<u>4</u>	MTH025 or MTH023 or Proficiency
	17	
 <u>Second Semester</u>		
AIT220 Industrial Robotics	4	AIT139
MST134 Hydraulic and Pneumatic Systems^	6	MTH022 or MTH023 or Proficiency
MST221 Mechanical Drive Components	3	
EET227 PLCs and Industrial Controls I	<u>3</u>	EET120 or EST230
	16	
TOTAL CREDITS	33	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.