

 	ONE-YEAR CERTIFICATE INDUSTRIAL MAINTENANCE	2021-22 Catalog Effective Summer 2021
	<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
AIT101	Basic Machines^^	2		
AIT139	Introduction to Robotics	2		
MST134	Hydraulic and Pneumatic Systems^	4	MTH022 or MTH023 or Proficiency	
MST125	Basic Pumps	3		
MST221	Mechanical Drive Components	3		
AIT220	Industrial Robotics	4		
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) or MTH107	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
MST127	Principles of Welding	3	Co-MST128	
MST128	Welding Laboratory	3	Co-MST127	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
MTH107	Industrial Math^	3	(MTH021 or Proficiency) or Pre-Co-MTH007	
Total		4		
TOTAL CREDIT HOURS		35		

^Based on SSC placement scores.

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

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PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before 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 who plan to finish in four semesters.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH107	Industrial Math^	3	(MTH021 or Proficiency) or Pre-Co-MTH007
AIT101	Basic Machines^^	2	
AIT139	Introduction to Robotics	<u>2</u>	
		8	
<u>Second Semester</u>			
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Laboratory	3	Co-MST127
EST230	Electrical Circuits and Devices^	<u>4</u>	(MTH025 or Proficiency) or MTH107
		10	
<u>Third Semester</u>			
AIT220	Industrial Robotics	4	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
MST125	Basic Pumps	<u>3</u>	
		10	
<u>Fourth Semester</u>			
MST221	Mechanical Drive Components	3	
MST134	Hydraulic and Pneumatic Systems^	<u>4</u>	MTH022 or MTH023 or Proficiency
		7	
	TOTAL CREDITS	35	

^Based on SSC placement scores.

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