



ASSOCIATE OF APPLIED SCIENCE

**INDUSTRIAL TECHNOLOGY – INDUSTRIAL MAINTENANCE MAJOR**

*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.*

2021-22Catalog

Effective Summer 2021

**4351**

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		
AIT122	Machine Tools	4		
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	
EET228	PLCs and Industrial Controls II	3	EET227	
MST127	Principles of Welding	3	Co-MST128	
MST128	Welding Laboratory	3	Co-MST127	
MST134	Hydraulic and Pneumatic Systems <sup>^</sup>	4	MTH022 or MTH023 or Proficiency	
<b>Total</b>		<b>32</b>		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar <sup>^^</sup>	1	<i>Take first semester</i>	
MTH107	Industrial Math	3	(MTH021 or Proficiency) or Pre-Co-MTH007	
AIT124	Principles of Rigging	2		
MST121	Blueprint Reading	2		
MST125	Basic Pumps	3		
MST221	Mechanical Drive Components	3		
PHY101	Principles of Physics <sup>^</sup>	4	(MTH022 or MTH023 or Proficiency) or MTH105 or MTH107	
ITD122	Computer Applications for Professionals <sup>^</sup>	3	ITD100 or Proficiency	
ENG124	College Composition <sup>^</sup>	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG221 or COM123	Technical Report Writing or Small Group Communications <sup>^</sup>	3 or 3	ENG124 or IDS102 or Proficiency	
PSY124	Industrial/Organizational Psych	3		
<b>Total</b>		<b>30</b>		
<b>TOTAL CREDIT HOURS</b>		<b>62</b>		

<sup>^</sup>Based on SSC placement scores

<sup>^^</sup>To promote student success, this course should be taken in the first semester

2021-22 Catalog Effective Summer 2021	<b>INDUSTRIAL TECHNOLOGY – INDUSTRIAL MAINTENANCE MAJOR</b>	<b>4351</b>
--	---	-------------

### 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 full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Laboratory	3	Co-MST127
EST230	Electrical Circuits and Devices	4	(MTH025 or Proficiency) <b>or</b> MTH107
AIT101	Basic Machines	2	
MTH107	Industrial Math	<u>3</u>	(MTH021 or Proficiency) <b>or</b> Pre-Co-MTH007
		<b>16</b>	
<u>Second Semester</u>			
ITD122	Computer Applications for Professionals	3	ITD100 <b>or</b> Proficiency
AIT122	Machine Tools	4	
MST121	Blueprint Reading	2	
ENG124	College Composition^	3	Co-ENG024 <b>or</b> Co-ENG011 <b>or</b> Proficiency
EET227	PLCs and Industrial Controls I	<u>3</u>	EET120 <b>or</b> EST230
		<b>15</b>	
<u>Third Semester</u>			
MST134	Hydraulic and Pneumatic Systems^	4	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency
PHY101	Principles of Physics^	4	(MTH022 or MTH023 or Proficiency) <b>or</b> MTH105 <b>or</b> MTH107
EET228	PLCs and Industrial Controls II	3	EET227
MST125	Basic Pumps	3	
AIT139	Introduction to Robotics	<u>2</u>	
		<b>16</b>	
<u>Fourth Semester</u>			
PSY124	Industrial/Organizational Psych	3	
MST221	Mechanical Drive Components	3	
AIT220	Industrial Robotics	4	
AIT124	Principles of Rigging	2	
ENG221	Technical Report Writing	3	ENG124
<b>or</b>	<b>or</b>	<b>or</b>	<b>or</b>
COM123	Small Group Communication^	<u>3</u>	IDS102 <b>or</b> Proficiency
		<b>15</b>	
	<b>TOTAL CREDITS</b>	<b>62</b>	

^Based on SSC placement scores

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