



**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.*

**2021-22 Catalog**  
Effective Summer 2021

**4351**

*Engineering Technologies Division*

*Industrial Technology Department*

<b>TECHNICAL Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Pre- and Co-Requisites</b>	<b>Completed Sem./Year</b>
AIT101	Basic Machines	2		
AIT139	Introduction to Robotics	2		
AIT122	Machine Tools	4		
AIT220	Industrial Robotics	4		
EST230	Electrical Circuits and Devices <sup>^</sup>	4	(MTH025 or Proficiency) <b>or</b> MTH107	
EET227	PLCs and Industrial Controls I	3	EET120 <b>or</b> 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 <b>or</b> MTH023 <b>or</b> Proficiency	
<b>Total</b>		<b>32</b>		
<b>NON-TECH Course Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Pre- and Co-Requisites</b>	<b>Completed Sem./Year</b>
SSC101	Student Success Seminar <sup>^^</sup>	1	<i>Take first semester</i>	
MTH107	Industrial Math <sup>^</sup>	3	(MTH021 or Proficiency) <b>or</b> 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	(MTH024 <b>or</b> MTH025 <b>or</b> Proficiency) <b>or</b> MTH105 <b>or</b> MTH107 <b>and</b> (IDS102 <b>or</b> Proficiency)	
ITD122	Computer Applications for Professionals <sup>^</sup>	3	ITD100 <b>or</b> Proficiency	
ENG124	College Composition <sup>^</sup>	3	Co-ENG024 <b>or</b> Co-ENG011 <b>or</b> Proficiency	
ENG221 <b>or</b>	Technical Report Writing <b>or</b>	3 <b>or</b>	ENG124 <b>or</b>	
COM123	Small Group Communications <sup>^</sup>	3	IDS102 <b>or</b> 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

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

PART-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 part-time associate degree students who plan to finish in eight 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>
AIT101	Basic Machines	2	
MTH107	Industrial Math^	3	(MTH021 or Proficiency) <b>or</b> Pre-Co-MTH007
MST121	Blueprint Reading	<u>2</u>	
		<b>8</b>	
 <u>Second Semester</u>			
EST230	Electrical Circuits and Devices	4	(MTH025 or Proficiency) <b>or</b> MTH107
ENG124	College Composition^	3	Co-ENG024 <b>or</b> Co-ENG011 <b>or</b> Proficiency
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 <b>or</b> Proficiency
		<b>10</b>	
 <u>Third Semester</u>			
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Laboratory	<u>3</u>	Co-MST127
		<b>6</b>	
 <u>Fourth Semester</u>			
EET227	PLCs and Industrial Controls I	3	EET120 <b>or</b> EST230
MST134	Hydraulic and Pneumatic Systems^	<u>4</u>	MTH022 <b>or</b> MTH023
		<b>7</b>	<b>or</b> Proficiency
 <u>Fifth Semester</u>			
AIT 139	Introduction to Robotics	2	
PHY101	Principles of Physics^	4	(MTH024 <b>or</b> MTH025 <b>or</b> Proficiency) <b>or</b> MTH105 <b>or</b> MTH107 <b>and</b> (IDS102 <b>or</b> Proficiency)
AIT122	Machine Tools	<u>4</u>	
		<b>10</b>	
 <u>Sixth Semester</u>			
AIT124	Principles of Rigging	2	
MST125	Basic Pumps	3	
EET228	PLCs and Industrial Controls II	<u>3</u>	EET227
		<b>8</b>	
 <u>Seventh Semester</u>			
AIT220	Industrial Robotics	4	
MST221	Mechanical Drive Components	<u>3</u>	
		<b>7</b>	
 <u>Eighth Semester</u>			
PSY124	Industrial/Organizational Psych	3	
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>6</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