



ASSOCIATE OF APPLIED SCIENCE

**INDUSTRIAL TECHNOLOGY – INDUSTRIAL MAINTENANCE MAJOR**

2021 Catalog  
Effective Summer 2020

**4351**

*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.*

Engineering Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT139	Introduction to Robotics	2		
AIT220	Industrial Robotics	4	AIT139	
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 <b>or</b> Pre-Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 <b>or</b> Pre-Co-MTH135) <b>and</b> EET120	
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>	6	MTH022 <b>or</b> MTH023 <b>or</b> 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>	
MTH125	College Algebra <sup>^</sup>	4	MTH025 <b>or</b> MTH023 <b>or</b> Proficiency	
MTH130	Trigonometry	3	MTH125	
AIT124	Principles of Rigging	2		
MST121	Blueprint Reading	2		
MST221	Mechanical Drive Components	3		
PHY101	Principles of Physics <sup>^</sup>	4	(MTH022 <b>or</b> MTH023 <b>or</b> Proficiency) <b>or</b> MTH105 <b>or</b> MTH107	
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> COM123	Technical Report Writing <b>or</b> Small Group Communications <sup>^</sup>	3 <b>or</b> 3	ENG124 <b>or</b> IDS102 <b>or</b> Proficiency	
PSY124	Industrial/Organizational Psych	3		
<b>Total</b>		<b>31</b>		
<b>TOTAL CREDIT HOURS</b>		<b>63</b>		

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

<sup>^^</sup>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 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>
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 <b>or</b> Pre-Co-MTH135
MTH125	College Algebra^	<u>4</u>	MTH025 <b>or</b> MTH023 <b>or</b> Proficiency
		<b>9</b>	
<u>Second Semester</u>			
MST121	Blueprint Reading	2	
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 or Pre-Co-MTH135) <b>and</b> EET120
MTH130	Trigonometry	<u>3</u>	MTH125
		<b>9</b>	
<u>Third Semester</u>			
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Laboratory	3	Co-MST127
ENG124	College Composition^	<u>3</u>	Co-ENG024 <b>or</b> Co-ENG011 <b>or</b> Proficiency
		<b>9</b>	
<u>Fourth Semester</u>			
EET227	PLCs and Industrial Controls I	3	EET120 <b>or</b> EST230
MST134	Hydraulic and Pneumatic Systems^	<u>6</u>	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency
		<b>9</b>	
<u>Fifth Semester</u>			
PHY101	Principles of Physics^	4	(MTH022 or MTH023 or Proficiency) <b>or</b> MTH105 <b>or</b> MTH107
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 <b>or</b> Proficiency
		<b>7</b>	
<u>Sixth Semester</u>			
AIT124	Principles of Rigging	2	
AIT139	Introduction to Robotics	2	
EET228	PLCs and Industrial Controls II	<u>3</u>	EET227
		<b>7</b>	
<u>Seventh Semester</u>			
AIT220	Industrial Robotics	4	AIT139
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>63</b>	

^Based on SSC placement scores

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