

 	<b>ASSOCIATE OF APPLIED SCIENCE</b> <b>INDUSTRIAL TECHNOLOGY – INDUSTRIAL MAINTENANCE MAJOR</b> <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>	<b>2025-26 Catalog</b> Effective Summer 2025  <div style="font-size: 2em; font-weight: bold;">4351</div>
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*Business, Engineering, and Information Technologies Division*

*Industrial Technology Department*

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT101	Basic Machines	2		
AIT134	Preventive and Predictive Maintenance	3		
AIT139	Introduction to Robotics	2		
AIT122	Machine Tools	4		
AIT220	Industrial Robotics	4		
AIT228	Automated Welding and Fabrication	3	AIT220 and MST127	
EST230	Electrical Circuits and Devices	4	(MTH025 or Proficiency) <b>or</b> MTH107	
MST126	Pipefitting Principles and Applications	3		
MST127	Principles of Welding	6		
MST134	Hydraulic and Pneumatic Systems <sup>^</sup>	4	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency	
<b>Total</b>		<b>35</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) <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> 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>30</b>		
<b>TOTAL CREDIT HOURS</b>		<b>65</b>		

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

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

*The classes in this major also apply toward the completion of an Industrial Technology – Welding Technology AWS\* Certification Exam Preparation Career Enhancement Certificate (4320), an Industrial Technology – Basic Industrial Maintenance Career Enhancement Certificate (4407), and an Industrial Technology – Mechanical Drive Systems Career Enhancement Certificate (4318).*

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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 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	6	
AIT139	Introduction to Robotics	2	
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>18</b>	
<u>Second Semester</u>			
AIT220	Industrial Robotics	4	
AIT122	Machine Tools	4	
AIT134	Preventive and Predictive Maintenance	3	
MST121	Blueprint Reading	2	
MST126	Pipefitting Principles and Application	<u>3</u>	
		<b>16</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	(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)
ENG124	College Composition^	3	Co-ENG024 <b>or</b> Co-ENG011 <b>or</b> Proficiency
MST125	Basic Pumps	3	
AIT228	Automated Welding and Fabrication	<u>3</u>	
		<b>17</b>	
<u>Fourth Semester</u>			
ITD122	Computer Applications for Professionals	3	ITD100 <b>or</b> Proficiency
PSY124	Industrial/Organizational Psych	3	
MST221	Mechanical Drive Components	3	
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>14</b>	
<b>TOTAL CREDITS</b>		<b>65</b>	

^Based on SSC placement scores

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