

 	<b>CAREER ENHANCEMENT CERTIFICATE</b> <b>INDUSTRIAL TECHNOLOGY – BASIC</b> <b>INDUSTRIAL MAINTENANCE</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="text-align: center; font-size: 2em;"><b>4407</b></div>
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*Business, Engineering, and Information Technologies Division*

*Industrial Technology Department*

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT101	Basic Machines	2		
MTH107	Industrial Math^	3	(MTH021 or Proficiency) <b>or</b> Pre-Co-MTH007	
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) <b>or</b> MTH107	
MST121	Blueprint Reading	2		
MST125	Basic Pumps	3		
MST134	Hydraulic and Pneumatic Systems^	4	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency	
MST221	Mechanical Drive Components	3		
	<b>TOTAL CREDIT HOURS</b>	<b>21</b>		

### 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.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
AIT101	Basic Machines	2	
MTH107	Industrial Math^	3	(MTH021 or Proficiency) <b>or</b> Pre-Co-MTH007
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) <b>or</b> MTH107
MST134	Hydraulic and Pneumatic Systems^	<u>4</u>	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency
		<b>13</b>	
<u>Second Semester</u>			
MST121	Blueprint Reading	2	
MST125	Basic Pumps	3	
MST221	Mechanical Drive Components	<u>3</u>	
		<b>8</b>	
	<b>TOTAL CREDITS</b>	<b>21</b>	

^Based on SSC placement scores

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

*The classes in this certificate also apply toward the completion of an Industrial Technology Degree (4300), an Industrial Technology – Industrial Maintenance Major (4351), and an Industrial Maintenance One-Year Certificate (4352).*