



## ONE-YEAR CERTIFICATE

# PREVENTIVE AND PREDICTIVE MAINTENANCE TECHNOLOGY

*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.*

**2022-23 Catalog**

Effective Summer 2022

# 5029

*Business, Engineering, and Information Technologies Division*

*Industrial Technology Department*

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST121	Blueprint Reading	2		
MST125	Basic Pumps	3		
MST126	Pipefitting Principles and Applications	3		
MST134	Hydraulic and Pneumatic Systems <sup>^</sup>	4	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency	
MST221	Mechanical Drive Components	3		
EST230	Electrical Circuits and Devices <sup>^</sup>	4	(MTH025 or Proficiency) <b>or</b> MTH107	
AIT134	Preventive and Predictive Maintenance	3	MST221 <b>and</b> MST125	
AIT222	Predictive Maintenance Analysis	2	AIT134	
<b>Total</b>		<b>24</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>	
AIT101	Basic Machines <sup>^^</sup>	2	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving <sup>^</sup>	3	(IDS102 or Proficiency) <b>and</b> (ITD100 or Proficiency)	
MTH107	Industrial Math <sup>^</sup>	3	(MTH021 or Proficiency) <b>or</b> Pre-Co-MTH007	
<b>Total</b>		<b>9</b>		
<b>TOTAL CREDIT HOURS</b>		<b>33</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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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 students seeking a one-year certificate.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101      Student Success Seminar^^	1	<i>Take first semester</i>
AIT101      Basic Machines^^	2	<i>Take first semester</i>
MST121      Blueprint Reading	2	
MST125      Basic Pumps	3	
MST221      Mechanical Drive Components	3	
MTH107      Industrial Math^	<u>3</u>	(MTH021 or Proficiency) <b>or</b> Pre-Co-MTH007
	<b>14</b>	
 <u>Second Semester</u>		
AIT134      Preventive and Predictive Maintenance	3	MST221 <b>and</b> MST125
MST126      Pipefitting Principles and Applications	3	
MST134      Hydraulic and Pneumatic Systems^	4	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency
CSE122      Programming Logic and Problem Solving^	<u>3</u>	(IDS102 or Proficiency) <b>and</b> (ITD100 or Proficiency)
	<b>13</b>	
 <u>Third Semester</u>		
EST230      Electrical Circuits and Devices ^	4	(MTH025 or Proficiency) <b>or</b> MTH107
AIT222      Predictive Maintenance Analysis	<u>2</u>	AIT134
	<b>6</b>	
<b>TOTAL CREDITS</b>	<b>33</b>	

^Based on SSC placement scores

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