



ONE-YEAR CERTIFICATE INDUSTRIAL MAINTENANCE

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.

2024-25 Catalog

Effective Summer 2024

4352

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		
MST121	Blueprint Reading	2		
MST134	Hydraulic and Pneumatic Systems [^]	4	MTH022 or MTH023 or Proficiency	
MST125	Basic Pumps	3		
MST221	Mechanical Drive Components	3		
AIT220	Industrial Robotics	4		
EST230	Electrical Circuits and Devices [^]	4	(MTH025 or Proficiency) or MTH107	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
MST127	Principles of Welding	6		
Total		34		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
MTH107	Industrial Math [^]	3	(MTH021 or Proficiency) or Pre-Co-MTH007	
Total		4		
TOTAL CREDIT HOURS		38		

[^]Based on SSC placement scores.

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

Students completing this degree may be eligible to also receive an Industrial Technology – Basic Industrial Maintenance Career Enhancement Certificate (4407) an Industrial Technology – Welding Technology AWS* Certification Exam Preparation Career Enhancement Certificate (4320), and an Industrial Technology – Mechanical Drive Systems (4318). The classes in this certificate also apply toward the completion of an Industrial Technology Degree (4300).

ONE-YEAR CERTIFICATE

INDUSTRIAL MAINTENANCE

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 students seeking a one-year certificate.

<u>Summer Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH107	Industrial Math^	3	(MTH021 or Proficiency) or Pre-Co-MTH007
AIT134	Preventive and Predictive Maintenance	<u>3</u>	
		7	
<u>Fall Semester</u>			
AIT101	Basic Machines	2	
AIT220	Industrial Robotics	<u>4</u>	
		6	
<u>Spring Semester</u>			
EST230	Electrical Circuits and Devices^	4	(MTH025 or Proficiency) or MTH107
MST125	Basic Pumps	3	
MST221	Mechanical Drive Components*	<u>3</u>	
		10	
<u>Summer Semester</u>			
MST121	Blueprint Reading	2	
MST127	Principles of Welding	<u>6</u>	
		8	
<u>Fall Semester</u>			
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
MST134	Hydraulic and Pneumatic Systems^	<u>4</u>	MTH022 or MTH023 or Proficiency
		7	
	TOTAL CREDITS	38	

^Based on SSC placement scores.

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

*It is recommended that MST221 be taken during the first 8-week session so that MST125 can be taken during the second 8-week session.