



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 or Pre-Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 or Pre-Co-MTH135) and EET120	
EET227	PLCs and Industrial Controls I	3	EET120 or 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 [^]	6	MTH022 or MTH023 or Proficiency	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
MTH125	College Algebra [^]	4	MTH025 or MTH023 or Proficiency	
MTH130	Trigonometry	3	MTH125	
AIT124	Principles of Rigging	2		
MST121	Blueprint Reading	2		
MST221	Mechanical Drive Components	3		
PHY101	Principles of Physics [^]	4	(MTH022 or MTH023 or Proficiency) or MTH105 or MTH107	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
ENG124	College Composition [^]	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG221 or COM123	Technical Report Writing or Small Group Communications [^]	3 or 3	ENG124 or IDS102 or Proficiency	
PSY124	Industrial/Organizational Psych	3		
Total		31		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement scores

^{^^}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 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>
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 or Pre-Co-MTH135
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
MST121	Blueprint Reading	2	
MTH125	College Algebra^	<u>4</u>	MTH025 or MTH023 or Proficiency
		14	
<u>Second Semester</u>			
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 or Pre-Co-MTH135) and EET120
MTH130	Trigonometry	3	MTH125
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Laboratory	3	Co-MST127
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency
EET227	PLCs and Industrial Controls I	<u>3</u>	EET120 or EST230
		19	
<u>Third Semester</u>			
MST134	Hydraulic and Pneumatic Systems^	6	MTH022 or MTH023 or Proficiency
PHY101	Principles of Physics^	4	(MTH022 or MTH023 or Proficiency) or MTH105 or MTH107
EET228	PLCs and Industrial Controls II	3	EET227
AIT139	Introduction to Robotics	<u>2</u>	
		15	
<u>Fourth Semester</u>			
PSY124	Industrial/Organizational Psych	3	
MST221	Mechanical Drive Components	3	AIT139
AIT220	Industrial Robotics	4	
AIT124	Principles of Rigging	2	
ENG221	Technical Report Writing	3	ENG124
or	or	or	or
COM123	Small Group Communication^	<u>3</u>	IDS102 or Proficiency
		15	
	TOTAL CREDITS	63	

^Based on SSC placement scores

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