



**ASSOCIATE OF APPLIED SCIENCE**  
**ELECTRICAL MAINTENANCE TECHNOLOGY**

2024-25 Catalog

Effective Summer 2024

*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.*

**4404**

*Business, Engineering, and Information Technologies Division*

*Industrial Technology Department*

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT134	Preventive and Predictive Maintenance	3		
AIT139	Introduction to Robotics	2		
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 <b>or</b> Pre-Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 <b>or</b> Pre-Co-MTH135) <b>and</b> EET120	
EET123	Electronic Devices and Circuits	4	EET120 <b>and</b> Pre-Co-EET122	
MST221	Mechanical Drive Components	3		
EST129	Switchgear, Transformers and Controls	2	EET122 <b>or</b> EST230	
EET126	Electrical Machines	4	Pre-Co-EET122	
EET128	NEC and Electrical Systems Design	2	EET122	
EET227	PLCs and Industrial Controls I	3	EET120 <b>or</b> EST230	
EET228	PLCs and Industrial Controls II	3	EET227	
<b>Total</b>		<b>34</b>		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
AIT101	Basic Machines	2		
ITD122	Computer Applications for Professionals^	3	ITD100 <b>or</b> Proficiency	
MST121	Blueprint Reading	2		
MST134	Hydraulic and Pneumatic Systems^	4	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	MTH025 <b>or</b> Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 <b>or</b> (MTH125 and MTH130) <b>or</b> Proficiency	
ENG124	College Composition^	3	Co-ENG024 <b>or</b> Co- ENG011 <b>or</b> Proficiency	
ENG221	Technical Report Writing	3	ENG124	
	<i>Select one (1) Arts &amp; Humanities Elective from the list below.!</i>	3	<i>Check for prerequisites</i>	
<b>Total</b>		<b>30</b>		
<b>TOTAL CREDIT HOURS</b>		<b>64</b>		

^Based on SSC placement scores.

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

!Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

**Students completing this degree may be eligible to also receive an Electrical/Electronic Engineering Technology – Industrial Controls Career Enhancement Certificate (4409) and and Electrical/Electronic Engineering Technology – Electrical/Electronic Troubleshooting (4408).**

## 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 part-time associate degree students who plan to finish in eight semesters.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
AIT101	Basic Machines	2	
MTH135	Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	<u>5</u>	MTH025 <b>or</b> Proficiency
		<b>8</b>	
<u>Second Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 <b>or</b> Proficiency
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 <b>or</b> Pre-Co-MTH135
MST121	Blueprint Reading	<u>2</u>	
		<b>9</b>	
<u>Third Semester</u>			
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 or Pre-Co-MTH135) <b>and</b> EET120
AIT139	Introduction to Robotics	2	
AIT134	Preventive and Predictive Maintenance	<u>3</u>	
		<b>9</b>	
<u>Fourth Semester</u>			
MST134	Hydraulic and Pneumatic Systems^	4	MTH022 <b>or</b> MTH023 <b>or</b> Proficiency
ENG124	College Composition^	<u>3</u>	Co-ENG024 <b>or</b> Co-ENG011 <b>or</b> Proficiency
		<b>7</b>	
<u>Fifth Semester</u>			
EET123	Electronic Devices and Circuits	4	EET120 <b>and</b> Pre-Co-EET122
EET128	NEC and Electrical Systems Design	2	EET122
EET227	PLCs and Industrial Controls I	<u>3</u>	EET120 <b>or</b> EST230
		<b>9</b>	
<u>Sixth Semester</u>			
MST221	Mechanical Drive Components	3	
ENG221	Technical Report Writing	<u>3</u>	ENG124
		<b>6</b>	
<u>Seventh Semester</u>			
EET126	Electrical Machines	4	Pre-Co-EET122
EET228	PLCs and Industrial Controls II	3	EET227
EST129	Switchgear, Transformers and Controls	<u>2</u>	EET122 <b>or</b> EST230
		<b>9</b>	
<u>Eighth Semester</u>			
PHY121	College Physics I with Algebra (lab)^	4	MTH135 <b>or</b> (MTH125 and MTH130) <b>or</b> Proficiency
	<i>Arts &amp; Humanities Elective<sup>1</sup></i>	<u>3</u>	<i>Check for prerequisites</i>
		<b>7</b>	
	<b>TOTAL CREDITS</b>	<b>64</b>	

^Based on SSC placement scores.

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

<sup>1</sup>Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122