

 	ASSOCIATE OF APPLIED SCIENCE ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY – ELECTRO-MECHANICAL MAJOR	2024-25 Catalog Effective Summer 2024
	<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>	4101

Business, Engineering, and Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
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	
EET123	Electronic Devices and Circuits	4	EET120 and Pre-Co-EET122	
EET126	Electrical Machines	4	Pre-Co-EET122	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
MET124	Statics and Strength of Materials	4	Pre-Co-PHY121 or Pre-Co-PHY221	
MET228	Machine Design	4	MET124	
MET226	Technical Project – Mechanical and Design	2	Pre-Co-MET228 and Pre-Co-DET125	
MET227	Thermodynamics and Heat Transfer	3	PHY121	
MET123	Material Science	3		
Total		35		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
DET125	Basic AutoCAD	3		
AIT139	Introduction to Robotics	2		
MET225	Manufacturing Processes	3		
MTH135	Precalculus [^] – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	MTH025 or Proficiency	
PHY121	College Physics I with Algebra (lab) [^]	4	MTH135 or (MTH125 and MTH130) or Proficiency	
ENG124	College Composition [^]	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
	<i>Select one (1) Arts & Humanities Elective from list below^l</i>	3	<i>Check for pre-requisites</i>	
Total		30		
TOTAL CREDIT HOURS		65		

[^]Based on SSC placement scores

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

^lArts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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

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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-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
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 or Proficiency
		9	
<u>Second Semester</u>			
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency
EET120	DC Circuit Analysis	<u>4</u>	Pre-Co-MTH125 or Pre-Co-MTH135
		7	
<u>Third Semester</u>			
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 or Pre-Co-MTH135) and EET120
PHY121	College Physics I with Algebra (lab)^	<u>4</u>	MTH135 or (MTH125 and MTH130) or Proficiency
		8	
<u>Fourth Semester</u>			
MET124	Statics and Strength of Materials	4	Pre-Co-PHY121 or Pre-Co-PHY221
EET126	Electrical Machines	<u>4</u>	Pre-Co-EET122
		8	
<u>Fifth Semester</u>			
MET123	Material Science	3	
EET123	Electronic Devices and Circuits	4	EET120 and Pre-Co-EET122
EET227	PLCs and Industrial Controls I	<u>3</u>	EET120 or EST230
		10	
<u>Sixth Semester</u>			
MET227	Thermodynamics and Heat Transfer	3	PHY121
ENG221	Technical Report Writing	3	ENG124
DET125	Basic AutoCAD	<u>3</u>	
		9	
<u>Seventh Semester</u>			
AIT139	Introduction to Robotics	2	
MET228	Machine Design	4	MET124
MET226	Technical Project – Mechanical and Design	<u>2</u>	Pre-Co-MET228 and Pre-Co-DET125
		8	
<u>Eighth Semester</u>			
MET225	Manufacturing Processes	3	
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		6	
	TOTAL CREDITS	65	

^Based on SSC placement scores

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

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122