

 	<b>ASSOCIATE OF APPLIED SCIENCE</b> <b>ELECTRICAL/ELECTRONIC ENGINEERING</b> <b>TECHNOLOGY – ELECTRO-MECHANICAL</b> <b>MAJOR</b>	<b>2023-24 Catalog</b> Effective Summer 2023
	<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>	<b>4101</b>

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 <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	
EET126	Electrical Machines	4	Pre-Co-EET122	
EET227	PLCs and Industrial Controls I	3	EET120 <b>or</b> EST230	
MET124	Statics and Strength of Materials	4	Pre-Co-PHY121 <b>or</b> Pre-Co-PHY221	
MET228	Machine Design	4	MET124	
MET226	Technical Project – Mechanical and Design	2	Pre-Co-MET228 <b>and</b> Pre-Co-DET125	
MET227	Thermodynamics and Heat Transfer	3	PHY121	
MET123	Material Science	3		
<b>Total</b>		<b>35</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>	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 <b>or</b> Proficiency) <b>and</b> (ITD100 <b>or</b> 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 <b>or</b> Proficiency	
PHY121	College Physics I with Algebra (lab)^	4	MTH135 <b>or</b> (MTH125 <b>and</b> 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 list below<sup>1</sup></i>	3	<i>Check for pre-requisites</i>	
<b>Total</b>		<b>30</b>		
<b>TOTAL CREDIT HOURS</b>		<b>65</b>		

<sup>^</sup>Based on SSC placement scores

<sup>^^</sup>To promote student success, this course should be taken in the first semester

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

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

^Based on SSC placement scores

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

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