

ASSOCIATE OF APPLIED SCIENCE

ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY – ELECTRO-MECHANICAL MAJOR

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.

Business, Engineering, and Information Technologies Division

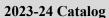
Engineering Technology Department

-22TECHNICAL 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	Take first semester	
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		
	Precalculus [^] – A student may take MTH125		MTH025 or Proficiency	
MTH135	(College Algebra) and MTH130 (Trigonometry)	5	MTH025 or Proficiency	
MTH135		5	MTH135 or (MTH125 and MTH130) or	
	(College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.		MTH135 or	
PHY121	(College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. College Physics I with Algebra (lab)^	4	MTH135 or (MTH125 and MTH130) or Proficiency Co-ENG024 or Co-ENG011 or	
PHY121 ENG124	(College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. College Physics I with Algebra (lab)^ College Composition^	4	MTH135 or (MTH125 and MTH130) or Proficiency Co-ENG024 or Co-ENG011 or Proficiency	
PHY121 ENG124	(College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. College Physics I with Algebra (lab)^ College Composition^ Technical Report Writing Select one (1) Arts & Humanities Elective	4 3 3	MTH135 or (MTH125 and MTH130) or Proficiency Co-ENG024 or Co-ENG011 or Proficiency ENG124	

^Based on SSC placement scores

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

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



Effective Summer 2023

4101

ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY – ELECTRO-MECHANICAL MAJOR

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.

ish in two years.			
First Semester		Credit Hours	Pre- or Co-requisite
SSC101	Student Success Seminar^^	1	Take first semester
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 or Pre-Co-MTH135
ENG124	College Composition [^]	3	Co-ENG024 or Co-ENG011 or Proficiency
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	<u>5</u>	MTH025 or Proficiency
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Second Semester			
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 or Pre-Co-MTH135) and EET120
MET124	Statics and Strength of Materials	4	Pre-Co-PHY121 or Pre-Co-PHY221
EET126	Electrical Machines	4	Pre-Co-EET122
PHY121	College Physics I with Algebra (lab)^	<u>4</u>	MTH135 or (MTH125 and MTH130) or Proficiency
		16	
Third Semester			
MET227	Thermodynamics and Heat Transfer	3	PHY121
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
MET123	Material Science	3	
ENG221	Technical Report Writing	3	ENG124
DET125	Basic AutoCAD	<u>3</u>	
		19	
Fourth Semester			
MET228	Machine Design	4	MET124
MET226	Technical Project – Mechanical and Design	2	Pre-Co-MET228 and Pre-Co-DET125
MET225	Manufacturing Processes	3	
AIT139	Introduction to Robotics	2	
Arts & Humanitie	s Elective ¹	<u>3</u>	Check for prerequisites
		14	
	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