ASSOCIATE OF APPLIED SCIENCE

ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY

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.

2023-24 Catalog

Effective Summer 2023

4100

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	
EET228	PLCs and Industrial Controls II	3	EET227	
EET232	Industrial Electronics	4	EET123	
AIT139	Introduction to Robotics	2		
AIT220	Industrial Robotics*	4		
EET233	Technical Project – Electrical/Electronic	1	EET123 **and** EET227	
	Total	**33**		

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)	
CSE233	C++ Programming	3	CSE122	
DET125	Basic AutoCAD	3		
EET128	NEC and Electrical Systems Design	2	EET122	
ENG124	College Composition^	3	Co-ENG024 **or** Co-ENG011 **or** Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH135	Precalculus^ – *A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.*	5	MTH025 **or** Proficiency	
PHY121	College Physics I with Algebra (lab)^	4	MTH135 **or** (MTH125 and MTH130) **or** Proficiency	
	Select one (1) Arts & Humanities Elective from the list below.[1]	3	*Check for prerequisites*	
	Total	**30**		
	TOTAL CREDIT HOURS	**63**		

^Based on SSC placement scores
^^To promote student success, this course should be taken in the first semester
[1]Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122
*FANUC Automation and Robotics certification will be awarded after successfully completing AIT220.

FULL-TIME STUDENT ADVISING NOTES

<u>Academic Advising</u>
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.

<u>Course Sequence</u>
The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

First Semester		Credit Hours	Pre- and Co-requisites
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.*	5	MTH025 **or** Proficiency
		16	
Second Semester			
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
PHY121	College Physics I with Algebra (lab)^	4	MTH135 **or** (MTH125 and MTH130) **or** Proficiency
		16	
Third Semester			
DET125	Basic AutoCAD	3	
EET128	NEC and Electrical Systems Design	2	EET122
EET227	PLCs and Industrial Controls I	3	EET120 **or** EST230
ENG221	Technical Report Writing	3	ENG124
CSE233	C++ Programming	3	CSE122
AIT139	Introduction to Robotics	2	
		16	
Fourth Semester			
AIT220	Industrial Robotics*	4	
EET228	PLCs and Industrial Controls II	3	EET227
EET232	Industrial Electronics	4	EET123
EET233	Technical Project – Electrical/Electronic	1	EET123 **and** EET227
Arts & Humanities Elective[1]		3	*Check for prerequisites*
		15	
	TOTAL CREDITS	**63**	

^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
*FANUC Automation and Robotics certification will be awarded after successfully completing AIT220.