

Technical Division

Associates in Applied Science (AAS) in Engineering Technology All Specializations

Program Outcome Curriculum Map

Rev: 9.10.2018

Program Outcome (PO) 1:	Graduates will have an ability to apply knowledge, techniques, skills, and modern tools of mathematics, science, engineering, or technology to solve broadly-defined engineering problems (ABET SO 1)
Program Outcome (PO) 2:	Graduates will have an ability to design systems, components, or processes for broadly defined engineering technology problems (ABET SO 2)
Program Outcome (PO) 3:	Graduates will have an ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature (ABET SO 3)
Program Outcome (PO) 4:	Graduates will have an ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes (ABET SO 4)
Program Outcome (PO) 5:	Graduates will have an ability to function effectively as a member or leader on a technical team (ABET SO 5)

General Education Courses

Course		PO 1	PO 2	PO 3	PO 4	PO 5
English Composition	ENG 111			I		
English Composition II (or)	ENG 112			R		
Professional Communication (or)	BUS 231			R		
Technical Writing	ENG 220			R		
Critical Thinking	PHL 105					
Introduction to GIS	GEO 115	I		R	I	
College Algebra	MTH 121					
Physics of the World (or)	PHY 105					
Biology (or)	BIO 106					
see specialization for specifics	-					

Core Technical Courses

Course		PO 1	PO 2	PO 3	PO 4	PO 5
CADD/Computer Modeling	DD170	I	I		I	
Intro. to Engineering technology	EET 102			I		I

Electrical Studies I	EET 103	I	I		I	
Fluid Power	MFG 104	I	R		I	
Manufacturing Processes	MFG 203	A	R	I	I	
Microcontroller Programming	RAM 155	I			I	
Microcontroller Systems	RAM 205	R	A	A	R	R

Program Specialization Courses - Biomedical Technician

Course		PO 1	PO 2	PO 3	PO 4	PO 5
Biomedical Equipment I	EET 180	I	I			
Biomedical Internship	EET 190	R				
Electrical Studies II	EET 204	R	R	R	A	
Biomedical Equipment II	EET 281	A	R			
Engineering Technology Internship	EET 290			R		A
Medical Terminology	HAH 101			I		
Approved Elective	-					

Program Specialization Courses - Computer Technology

Course		PO 1	PO 2	PO 3	PO 4	PO 5
Programming Logic and Design	CIT 110	I	I		I	
Relational Databases	CIT 178	R	R		R	
HTMLS & CSS Programming	CIT 180	I	I		I	
JavaScript Programming	CIT 190	R	R		R	
.NET Application Programming	CIT 195	R	R		R	
Advanced Database Systems	CIT 228	A	A		A	
Project Management	CIT 223		R	R		A
.NET Object Oriented Programming	CIT 255	A	A		A	

Program Specialization Courses - Electronics Technology

Course		PO 1	PO 2	PO 3	PO 4	PO 5
Fundamentals of Light and Lasers	EET 161	I	I			
Electrical Studies II	EET204	R	R	R	A	
Industrial Controls	EET 221	I	I			
Programmable Logic Controllers	EET 232	R	R			
System Engineering in Practice	EET 260		A	A		A
Approved Elective	-					

Program Specialization Courses - Marine Technology

Course		PO 1	PO 2	PO 3	PO 4	PO 5
Electrical Studies II	EET 204	R	R	R	A	
Oceanography w/ Lab	ENV 131 &					
	ENV 131L					
G. L. Research Technologies	WSI 200	R	I		R	R
Underwater Acoustics & Sonar	WSI 210	R	R		R	

Marine GIS & Data Processing	WSI 215	R	R	R	R	
ROV Systems & Operations	WSI 240	R	I		I	A
Program Specialization Courses - Photonics						
Course		PO 1	PO 2	PO 3	PO 4	PO 5
Electrical Studies II	EET 204	R	R	R	A	
Fundamentals of Light and Lasers	EET 161	I	I	R	R	I
Elements of Photonics	EET 212	R	R	R	A	R
Industrial Controls	EET 221	I	I			
System Engineering in Practice	EET 260		A	A		A
Program Specialization Courses - Robotics & Automation Technology						
Course		PO 1	PO 2	PO 3	PO 4	PO 5
Electrical Studies II	EET 204	R	R	R	A	
Industrial Controls	EET 221	I	I			
Programmable Logic Controllers	EET 232	R	R		I	
PLC Applications I	EET 233	R	I		R	
PLC Applications II	EET 234	R	A		A	
System Engineering in Practice	EET 260		A	A		A
Program Specialization Courses - Unmanned Aerial Systems (UAS)						
Course		PO 1	PO 2	PO 3	PO 4	PO 5
Remote Flight Pilot	AVF 141	I	I	I		I
Commercial Drone Operations	AVF 211	R	R	R	I	I
Advanced Drone Operations	AVF 241	A	A	R	R	R
Remote Pilot Ground	AVG 142	I	I	I	I	I
Electrical Studies II	EET 204	R	R	R	A	
Program Specialization Courses - Unmanned ground Vehicles (UGV)						
Course		PO 1	PO 2	PO 3	PO 4	PO 5
Engine Performance I	AT 130	I			I	
Automotive Electrical II	AT 220	I	I		R	
Unmanned Ground Vehicles	AT 240	A	R		R	R
System Engineering in Practice	EET 260		A			A
Program Outcome Curriculum Map Key		I	Introduction of the program outcome			
		R	Reinforcement of the program outcome			
		A	Potential Assessment of the program outcome			