

SUNY Canton 2021/ 2022 --- ABET ACCREDITED PROGRAM

Bachelor of Electrical Engineering Technology Program (B.TECH.)

Curriculum Number – 0216- Faculty: Stephen Frempong, Rashid Aidun, Shahrokh Sani, Raamitha Pillay

Semester 1- Fall	Course Title	Credits	Term	Grade
ENGL 101	Composition & the Spoken Word [GER 10]	3		
MATH 123	Pre-Calculus [GER 1]	4		
SOET 116	Introduction to CAD and Design	2		
ELEC 161	Electronic Fabrications	2		
ELEC 101	Electric Circuits I	3		
ELEC 109	Electric Circuits I Lab	1		
	Total credits: 15			
Semester 2-Spring				
ENGS 102	Programming for Engineers	2		
ELEC 102	Electric Circuits II	3		
ELEC 129	Electric Circuit II Lab	1		
MATH 161	Calculus I	4		
ELEC 165	Digital Fundamentals & Systems	3		
ELEC 166	Digital Fundamentals & Systems Lab	1		
	Total credits: 14			
Semester 3-Fall				
PHYS 121/131	College/University Physics I [GER 2]	3		
PHYS 125/135	College Physics I Lab/University Physics I Lab	1		
ELEC 213	Microprocessors	3		
ELEC 231	Electronic Circuits	4		
ELEC 141	Industrial Controls	2		
MATH 162	Calculus II	4		
	Total credits: 17			
Semester 4-Spring				
ELEC 243	Computer Automated Control Systems	2		
PHYS 122/132	College/University Physics II	3		
PHYS 126/136	College Physics II Lab/University Physics II Lab	1		
ELEC 215	Electrical Energy Conversion	4		
ELEC 225	Telecommunications	3		
MATH 263	Calculus III	4		
	Total credits: 17			
Semester 5-Fall				
MATH 141	Statistics I	3		
ELEC 343	Advanced Circuit Analysis	3		
ELEC 332	Industrial Power Electronics	3		
	GER course [3,4,5,6,7,8,9]	3		
SOET 377	Engineering Ethics	1		
MATH 364	Differential Equations	4		
	Total credits: 17			

Semester 6-Spring				
ELEC 380	LAN/WAN Technology	3		
ELEC 385	Electronic Communications I	3		
ELEC 383	Power Transmission and Distribution	3		
SOET 348	Engineering Safety	1		
	Program Elective	3		
	GER course[3,4,5,6,7,8,9]	3		
		Total credits: 16		
Semester 7-Fall				
SOET 361	Project Management	3		
	Program Elective	3		
ELEC 386	Electronic Communications II	3		
ELEC 416	Microelectronics Circuit Design	3		
	GER course [3,4,5,6,7,8,9]	3		
		Total credits: 15		
Semester 8-Spring				
	Program Elective	3		
ELEC 477	Capstone Project	3		
ECON 370	Engineering Economics	3		
ELEC 488/436	Electrical Power Systems/Biomedical Electronics	3		
	GER course [3,4,5,6,7,8,9]	3		
		Total credits: 15		

Program Electives

ELEC 375 Fiber Optic Communications	MECH 342 Thermodynamics
PHYS 301 Introduction to Photonics	AREA 340 Geothermal Energy
SOET 373 Management Telecommunications	MATH Minor Courses: 341, 361, 351, 371, 391
ELEC 405 Satellite Communications	SOET374 Industrial Management
MECH 351 Design of experiments	SOET 349 Industrial Safety and Health
AREA 303 Wind Turbines	
<i>Or Elective course approved by the program coordinator</i>	

Graduation requirements: 126 semester credit hours with a G.P.A of 2.0 minimum

Name of Student Certified for Graduation (YES/No)

ID Certified by

Class of Total G.P.A Date