SUNY Canton (Fall-2017 / Spring 2018)

Bachelor of Electrical Engineering Technology Program (B. Tech)

Fulltime Faculty: ***Stephen Frempong, Robert Jennings, Rashid Aidun, David Hartle***

Curriculum Number – 0216

Semester 1- Fall	**Course Title**	**Credits**	**Term**	**Grade**	**Comment**
ENGL 101	Composition & the Spoken Word [GER 10]	3			
MATH 123	Pre-Calculus [GER 1]	4			
SOET 116	Introduction to CAD and Design	2			
ENGS 101	Introduction to Engineering	2			
ELEC 101	Electric Circuits I	3			
ELEC 109	Electric Circuits I Lab	1			
		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			
		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			
	GER course [3,4,5,6,7,8,9]	3			
		16			
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 162	Calculus II	4			
		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 263	Calculus III	4			
		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			
MATH 364	**Differential Equations**	4			
	GER course[3,4,5,6,7,8,9]	3			
Semester 7- Fall		**17**			
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			
Semester 8-Spring		**15**			
	Program Elective	3			
ELEC 477	Capstone Project	3			
SOET 370	Engineering Economics	3			
ELEC 488/436	Electrical Power Systems/Biomedical Electronics	3			
	Program Elective	3			
		15			
	Total Credits : 126				

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	
AREA 303 Wind Turbines	
MECH 351 Design of Experiments	
Or Elective course approved by the program coordinator	

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

Name of Student …… Certified for Graduation (YES/No)

SN …… Certified by ……

Class of …….. Total G.P.A …… Date …….