## **SUNY Canton**

## Fall-2016/Spring-2017

Bachelor of Electrical Engineering Technology Program (B. Tech)

**Curriculum Number – 0216** 

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

Semester 1- Fall	Course Title	Credits	Term	Grade	Comment
ENGL 101	Composition & the Spoken Word [GER 10]	3		3.000	
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			
Semester 2-Sprin		15			l
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			
Semester 3- Fall	,	14	l .	I	•
PHYS 121/131	College/University Physics I [GER 2]	3			
PHYS 125	College 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			
Semester 4- Sprii		16	I		l
ELEC 243	Computer Automated Control Systems	2			
PHYS 122/132	College/University Physics II	3			
PHYS 126	College Physics II Lab	1			
ELEC 215	Electrical Energy Conversion	4			
ELEC 225	Telecommunications	3			
MATH 162	Calculus II	4			
Semester 5- Fall	1 11 11 11	17	I		
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			
Semester 6- Sprii		17	I		l
ELEC 380	LAN/WAN Technology	3			
ELEC 385	Electronic Communications I	3			
ELEC 383	Power Transmission and Distribution	3			
SOET 348	Engineering Safety	1			
3021 340	Program Elective	3			
	GER course[3,4,5,6,7,8,9]	3			
Semester 7- Fall		16	l .		
SOET 361	Project Management	3			
332.301	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			
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Semester 8-Spring	g			
	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 : 125			

## **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	Note: MATH 263 is expected to become a			
MECH 351 Design of Experiments	required			
	Course for B. Tech degree program			
Or_Elective course approved by the program coordinator				

Graduation requirements: 125 semeste	er credit hours with a G.P.A of 2.0 minimum
Name of Student	Certified for Graduation (YES/No)
SN Certified I	oy
Class of Total G.P.A	Date