

Fall 2014

Bachelor of Electrical Technology Program (B. Tech)

SUNY Canton – *Stephen Frempong, Robert Jennings, Rashid Aidun, Kaisar Khan, David Hartle*
(Curriculum 2234)

First Semester-Fall

Course Number / Title		Credits	Term	Grade
	Oral & Written Expression [GER 10]			
ENGL 102/101	Or Expository Writing	3	-----	-----
MATH 123	Pre-Calculus [GER 1]	4	-----	-----
SOET 116	Intro to CAD and Design	2	-----	-----
ENGS 101	Introduction to Engineering	2	-----	-----
ELEC 101	Electric Circuits I	3	-----	-----
ELEC 109	Electric Circuits I Lab	1	-----	-----
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	15			

Second Semester-Spring

ENGS 102	Programming for Engineers	2	-----	-----
ELEC 102	Electric Circuits II	3	-----	-----
ELEC 129	Electric Circuits II Lab	1	-----	-----
MATH 161	Calculus I	4	-----	-----
ELEC 165	Digital Fundamentals & Systems	3	-----	-----
ELEC 166	Digital Fundamentals & Systems Lab	1	-----	-----
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	14			

Third Semester-Fall

PHYS 121/131	College/University Physics I [GER 2]	3	-----	-----
PHYS 125	College Physics I Lab	1	-----	-----
ELEC 213	Microprocessors	3	-----	-----
	GER course (3,4,5,6,7,8,9)	3	-----	-----
ELEC 231	Electronic Circuits	4	-----	-----
ELEC 141	Industrial Controls	2	-----	-----
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	16			

Fourth Semester-Spring

ELEC 243	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	-----	-----
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	17			

Fifth Semester-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	-----	-----
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	17			

Sixth Semester-Spring

Course Number / Title		Credits
ELEC 380	LAN/WAN Technology	3 -----
ELEC 385	Electronic Communications I	3 -----
ELEC 383	Power Transmission and Distribution	3 -----
	GER course (3,4,5,6,7,8,9)	3 -----
	<i>Program Elective</i>	3 -----
SOET 348	Engineering Safety	1 -----
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Seventh Semester-Fall

SOET 361	Project Management	3 -----
	<i>Program Elective</i>	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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Eighth Semester-Spring

	<i>Program Elective</i>	3 -----
ELEC 477	Capstone Project	3 -----
SOET 370	Engineering Project Analysis	3 -----
ELEC488	Electrical Power Systems	3 -----
	<i>Program Elective</i>	3 -----
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Total Credits:

125

Program Electives

1. Fiber Optic Communications (ELEC 375) or PHYS301
 2. Math Minor Courses (MATH 341, MATH 361, MATH 351, MATH 371, MATH 263, MATH 391)
 4. Management Telecommunications (SOET 373)
 5. Wind Turbines (AREA 303)
 6. Satellite Communications (ELEC 405)
 7. Design of Experiments (MECH 351)
 8. Thermodynamics (MECH 342)
 9. Geothermal Energy (AREA 340)
 10. Biomedical Electronics (ELEC 436)
- or Electives approved by the program director

Graduation Requirements: 125 Semester Credit Hours with a G.P.A of 2.0 minimum

Name of StudentCertified for Graduation (Yes/No)

SN Certified By

Class of Total G.P.A.