## 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

<table>
<thead>
<tr>
<th>Course Number / Title</th>
<th>Credits</th>
<th>Term</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>ENGL 102/101 Or Expository Writing</td>
<td>3</td>
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<tr>
<td>MATH 123 Pre-Calculus [GER 1]</td>
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<tr>
<td>SOET 116 Intro to CAD and Design</td>
<td>2</td>
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<tr>
<td>ENGS 101 Introduction to Engineering</td>
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<tr>
<td>ELEC 101 Electric Circuits I</td>
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<tr>
<td>ELEC 109 Electric Circuits I Lab</td>
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### Second Semester - Spring

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<thead>
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<tbody>
<tr>
<td>ENGS 102 Programming for Engineers</td>
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<tr>
<td>ELEC 102 Electric Circuits II</td>
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<td>ELEC 129 Electric Circuits II Lab</td>
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<tr>
<td>MATH 161 Calculus I</td>
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<tr>
<td>ELEC 165 Digital Fundamentals &amp; Systems</td>
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<td>ELEC 166 Digital Fundamentals &amp; Systems Lab</td>
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<tbody>
<tr>
<td>PHYS 121/131 College/University Physics I [GER 2]</td>
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<tr>
<td>PHYS 125 College Physics I Lab</td>
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<td>ELEC 213 Microprocessors</td>
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<td>ELEC 231 Electronic Circuits</td>
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<tr>
<td>ELEC 141 Industrial Controls</td>
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<tbody>
<tr>
<td>ELEC 243 Automated Control Systems</td>
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<tr>
<td>PHYS 122/132 College/University Physics II</td>
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<tr>
<td>PHYS 126 College Physics II Lab</td>
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<tr>
<td>ELEC 215 Electrical Energy Conversion</td>
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<tr>
<td>ELEC 225 Telecommunications</td>
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<tr>
<td>MATH 162 Calculus II</td>
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### Fifth Semester - Fall

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<th>Course Number / Title</th>
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<tbody>
<tr>
<td>MATH 141 Statistics(I)</td>
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<td>ELEC 343 Advanced Circuit Analysis</td>
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<td>ELEC 332 Industrial Power Electronics</td>
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<td>ELEC 231 Engineering Ethics</td>
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<tr>
<td>MATH 364 Differential Equations</td>
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### Sixth Semester-Spring

<table>
<thead>
<tr>
<th>Course Number / Title</th>
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<tbody>
<tr>
<td>ELEC 380 LAN/WAN Technology</td>
<td>3</td>
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<tr>
<td>ELEC 385 Electronic Communications I</td>
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<tr>
<td>ELEC 383 Power Transmission and Distribution</td>
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<tr>
<td>GER course (3,4,5,6,7,8,9)</td>
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<tr>
<td><strong>Program Elective</strong></td>
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<td>SOET 348 Engineering Safety</td>
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### Seventh Semester-Fall

<table>
<thead>
<tr>
<th>Course Number / Title</th>
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<tbody>
<tr>
<td>SOET 361 Project Management</td>
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<td><strong>Program Elective</strong></td>
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<tr>
<td>ELEC 386 Electronic Communications II</td>
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<tr>
<td>ELEC 416 Microelectronics Circuit Design</td>
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<tr>
<td>GER course (3,4,5,6,7,8,9)</td>
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### Eighth Semester-Spring

<table>
<thead>
<tr>
<th>Course Number / Title</th>
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<tbody>
<tr>
<td>ELEC 477 Capstone Project</td>
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<tr>
<td>SOET 370 Engineering Project Analysis</td>
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<tr>
<td>ELEC 488 Electrical Power Systems</td>
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<tr>
<td><strong>Program Elective</strong></td>
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Total Credits: **125**

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**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)
3. Management Telecommunications (SOET 373)
4. Wind Turbines (AREA 303)
5. Satellite Communications (ELEC 405)
6. Design of Experiments (MECH 351)
7. Thermodynamics (MECH 342)
8. Geothermal Energy (AREA 340)
9. Biomedical Electronics (ELEC 436)
10. Electives approved by the program director

Graduation Requirements: 125 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. ..............................