# Engineering Technology

## A.A.S. Engineering Technology: Computer & Electronics Emphasis

<table>
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<tr>
<th>General Education Requirements (Computer &amp; Electronics)</th>
<th>Credits</th>
<th>Semester Taken</th>
<th>Prerequisites</th>
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<tr>
<td>ENGL 101 Composition and Reading I</td>
<td>3</td>
<td></td>
<td>ENGL 30/90 or appropriate placement test score</td>
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<tr>
<td>ENGL 215 Technical Writing</td>
<td>3</td>
<td></td>
<td>ENGL 101</td>
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<tr>
<td>COMM 100 Fundamentals of Speech</td>
<td>3</td>
<td></td>
<td>ENGL 30/90 or appropriate placement test score</td>
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<tr>
<td>HIST 120 U.S. History to 1865 or HIST 121 U.S. History since 1865 or POLS 135 Introduction to Political Science or POLS 136 Introduction to American National Politics or POLS 137 Introduction to State and Local Politics</td>
<td>3</td>
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<tr>
<td>MATH 120 College Algebra and MATH 130 Trigonometry or MATH 150 PreCalculus</td>
<td>5-6</td>
<td></td>
<td>MATH 110 or satisfactory placement test score</td>
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<tr>
<td>MATH 180 Analytic Geometry and Calculus I</td>
<td>5</td>
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<td>MATH 130 or 150</td>
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## Specific Program Requirements

| ENGR 101 Introduction to the Profession                    | 1       |                |             |
| CHEM 111 General College Chemistry I or PHYS 130 General Physics I or PHYS 220 Engineering Physics I | 5       |                | MATH 120 or satisfactory score on placement test (CHEM 111) MATH 130 Enrollment in or completion of MATH 190 |
| CSIS 123 Programming Fundamentals                          | 3       |                | MATH 40/40L or placement test |
| CSIS 223 Object-Oriented Programming                       | 3       |                | MATH 110 and CSIS 123 |
| EHSS 111 Intro to Health & Safety for General Industry or EHSS 112 Intro to Health & Safety for Construction | 1       |                |             |
| ETEC 152 Engineering Graphics & CADD I                      | 5       |                | MATH 40/40L |
| ETEC 118 AC Circuit Analysis                               | 4       |                | INTE 110 or ETEC 110 |
| ETEC 130 Digital Electronics                               | 4       |                | INTE 110 or ETEC 110 |
| ETEC 220 Analog Devices                                    | 4       |                | ETEC 118     |
| ETEC 230 Microcontroller Architecture                      | 4       |                | ETEC 130     |
| ETEC 240 Design Project or                                 | 3       |                | ETEC 270     |
| ETEC 275 Build Project                                     | 3       |                | ETEC 220     |
| ETEC 290 Internship in Engineering Technology or ETEC 295 Capstone Project in Engineering Technology | 3       |                | ETEC 152 ETEC 152, 269, 270, 271 |
| INTE 112 Industrial Electrical DC Principles               | 2       |                | Concurrent enrollment or completion of MATH 103R or higher |
| INTE 113 Industrial Electrical AC Principles               | 2       |                | INTE 112 or equivalent |
| Electives- choose one; CSIS or INTE                        | 3-4     |                |             |

**Total Credit Hours Required**: 64-66