## Electrical Engineering Technology
- Bachelor of Science (B.S.)
- Recommended Course Sequence

### Fall
| 1 (16 cred.) | LAC 1A - Cornerstone | TECH 1037: Introduction to Circuits *offered FALL ONLY* |
| LAC 5C | | University Elective |
| LAC 1B - Cornerstone | TECH 1039: Circuits & Systems *offered SPRING ONLY* | MATH 1150: Calculus for Technology (4 cred.)*offered SPRING ONLY* |
| LAC 2A | | University Elective (2 cred.) |

### Spring
| 1 (15 cred.) | LAC 1D (2 cred.) | TECH 2041: Intro to Analog Electronics *offered FALL ONLY* |
| LAC 5B | TECH 2042: Intro to Digital Electronics *offered FALL ONLY* | TECH 2038: Intro to Elec. Power & Machinery *offered FALL ONLY* |
| LAC 2B | TECH 3152: Advanced Analog Electronics *offered SPRING ONLY* | TECH 3166: Advanced Electrical Power Systems *offered SPRING ONLY* |
| LAC 3A | TECH 3157: Microcontroller Applications *offered FALL ONLY* | TECH 3156: Advanced Digital Electronics *offered SPRING ONLY* |

### Fall
| 2 (16 cred.) | LAC 1A - Cornerstone | TECH 3129: Linear Control Systems *offered FALL ONLY* |
| LAC 5B | TECH 3157: Microcontroller Applications *offered FALL ONLY* | STAT 1772: Intro to Statistical Methods (Also satisfies LAC 1C) |
| LAC 2B | TECH 3160: Comp.-Aided Instru. & Interfacing *offered SPRING ONLY* | ENGLISH 3772: Technical Writing for Engineering Technologists |
| LAC 3A | TECH 3164: Programmable Logic Controllers *offered SPRING ONLY* | University Elective |

### Spring
| 3 (15 cred.) | LAC 1A - Cornerstone | TECH 4103: Electronic Communications *offered FALL ONLY* |
| LAC 5B | TECH 4104: Applied Digital Signal Processing *offered SPRING ONLY* | University Elective |
| LAC 2A | TECH 4105: Wireless Communication Networks *offered FALL ONLY* | TECH 4174: Senior Design I (1 cred.)*offered FALL ONLY* |
| LAC 3A | TECH 4167: Power Electronics Applications *offered SPRING ONLY* | TECH 4176: Senior Design II *offered SPRING ONLY* |

### Important ALEKS Test Information
The ALEKS test is a math placement test that all UNI students must complete prior to enrolling in certain math & science courses. Below are the scores required for the math & science requirements in this program:
- PHYSICS 1511: 45
- STAT 1772: 50
- MATH 1140 & MATH 1150: 61

Legend:
- Liberal Arts Core (LAC)
- Math/Science Coursework
- Technical Core
- Tech. Writing Coursework
- University Elective
- Prerequisite
- Co-requisite
- * All classes receive 3 credit hours unless otherwise noted.
- * MATH 1150 may be taken as a co-requisite to TECH 3152.
- * TECH 4167 can be taken anytime after TECH 3152.
**Electrical Engineering Technology**

- Bachelor of Science (B.S.)
- Program Curriculum

### Mathematics/Science coursework 22 cred.
- CS 1160 - C/C+ Programming 3 cr.
- PHYSICS 1511 - General Physics I 4 cr.
  - course also satisfies LAC category 4B
- PHYSICS 1512 - General Physics II 4 cr.
- STAT 1772 - Introduction to Statistical Methods 3 cr.
  - course also satisfies LAC category 1C
- Math coursework (select two from the list below) 8 cr.
  - MATH 1140 - Precalculus 4 cr.
  - MATH 1150 - Calculus for Technology 4 cr.
  - MATH 1420 - Calculus I 4 cr.
  - MATH 1421 - Calculus II 4 cr.

### Technical Core 52 cred.
- TECH 1037 - Introduction to Circuits 3 cr.
- TECH 1039 - Circuits & Systems 3 cr.
- TECH 2038 - Introduction to Electrical Power & Machinery 3 cr.
- TECH 2041 - Introduction to Analog Electronics 3 cr.
- TECH 2042 - Introduction to Digital Electronics 3 cr.
- TECH 3129 - Linear Control Systems 3 cr.
- TECH 3152 - Advanced Analog Electronics 3 cr.
- TECH 3156 - Advanced Digital Electronics 3 cr.
- TECH 3157 - Microcontroller Applications 3 cr.
- TECH 3160 - Computer-Aided Instrumentation & Interfacing 3 cr.
- TECH 3164 - Programmable Logic Controllers 3 cr.
- TECH 3166 - Advanced Electrical Power Systems 3 cr.
- TECH 4103 - Electronic Communications 3 cr.
- TECH 4104 - Applied Digital Signal Processing 3 cr.
- TECH 4165 - Wireless Communication Networks 3 cr.
- TECH 4167 - Power Electronics Application 3 cr.
- TECH 4174 - Senior Design I 1 cr.
- TECH 4176 - Senior Design II 3 cr.

### Technical Writing coursework 3 cred.
- ENGLISH 3772 - Tech. Writing for Engineering Technologists 3 cr.

### Liberal Arts Core (LAC) 44-45 cred.

**Category I - Core Competencies** 11 cred.
- A. Reading & Writing 3 cr.
- B. Speaking & Listening 3 cr.
- C. Quantitative Techniques & Understanding 3 cr.
  - category completed with STAT 1772
- D. Personal Wellness 2 cr.

**Category II - Civilizations & Cultures** 9 cred.
- A. Humanities 6 cr.
- B. Non-Western Cultures 3 cr.

**Category III - Fine Arts, Literature, Philosophy & Religion** 6 cred.
- A. Fine Arts 3 cr.
- B. Literature, Philosophy or Religion 3 cr.

**Category IV - Natural Science & Technology** 7 cred.
- A. Life Sciences 3 cr.
- B. Physical Science 4 cr.
  - category completed with PHYSICS 1511

**Category V - Social Science** 9 cred.
- A. Sociocultural & Historical Perspectives 3 cr.
- B. Individual & Institutional Perspectives 3 cr.
- C. Topical Perspectives 3 cr.

**Category VI - Capstone Experience** 2-3 cred.

For detailed information regarding the Liberal Arts core (LAC), please visit uni.edu/lac.

### Credit Totals

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math/Science coursework</td>
<td>22 cr.</td>
</tr>
<tr>
<td>Technical Core</td>
<td>52 cr.</td>
</tr>
<tr>
<td>Technical Writing coursework</td>
<td>3 cr.</td>
</tr>
<tr>
<td>Liberal Arts core (LAC)</td>
<td>45 cr.</td>
</tr>
<tr>
<td>Credits counted twice (major &amp; LAC)</td>
<td>-7 cr.</td>
</tr>
<tr>
<td>Total</td>
<td>115 cr.</td>
</tr>
<tr>
<td>University Electives needed</td>
<td>11 cr.</td>
</tr>
<tr>
<td>Grand Total</td>
<td>126 cr.</td>
</tr>
</tbody>
</table>

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- PHYSICS 1511: 45
- STAT 1772: 50
- MATH 1140 & MATH 1150: 61