## Electrical Engineering Technology, A.A.S. - Electrical Engineering Technology Option

<table>
<thead>
<tr>
<th>Semester I (Fall)</th>
<th>Required Courses</th>
<th>Credit Hours</th>
<th>Prerequisite (Corequisite)</th>
<th>Term Offered</th>
<th>Available Online</th>
<th>Grade / Term Completed</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>COLL 1000 First Year Seminar</td>
<td>1</td>
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<td></td>
<td>EETC 1300 Introduction to Electrical Engineering Technology</td>
<td>3</td>
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<tr>
<td></td>
<td>EETC 1313 DC Circuits</td>
<td>3</td>
<td>(MATH 1050 or consent of program coordinator)</td>
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<td></td>
<td>EETC 1331 Digital Fundamentals</td>
<td>3</td>
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<tr>
<td></td>
<td>ENGL 1010 English Composition I</td>
<td>3</td>
<td>Satisfactory test scores or completion of corequisite requirements</td>
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<td></td>
<td>MATH 1050 Trigonometric Applications</td>
<td>3</td>
<td>HS algebra I and II and ACT math and reading scores of at least 19 or equivalent math and reading placement scores (MATH 0050 if required)</td>
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<tr>
<th>Semester II (Spring)</th>
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<th>Prerequisite (Corequisite)</th>
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<tbody>
<tr>
<td></td>
<td>EETC 1314 AC Circuits</td>
<td>3</td>
<td>EETC 1313</td>
<td></td>
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<td></td>
<td>EETC 1321 Electronics I</td>
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<td>EETC 1313</td>
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<td>ENST 1313 CAD for Electronics</td>
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<td></td>
<td>ENST 1352 Industrial Science</td>
<td>3</td>
<td>MATH 1010 or MATH 1050 or MATH 1130 or MATH 1530 or MATH 1630 or MATH 1710 or MATH 1720 or MATH 1730 or MATH 1830 or MATH 1910</td>
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<td></td>
<td>HUM/FA Humanities/Fine Arts Elective</td>
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<th>Semester III (Fall)</th>
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<tbody>
<tr>
<td></td>
<td>COMM 2025 Fundamentals of Communication or COMM 2045 Public Speaking</td>
<td>3</td>
<td>(ENGL 1010)</td>
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<td>EETC 2311 Power Technology</td>
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<td>EETC 1313 and EETC 1314 or EETC 1350</td>
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<td>EETC 2331 PLC I</td>
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<td>EETC 1313 and EETC 1314 or EETC 1350 or consent of program coordinator</td>
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<td>EETC 2350 Integrated Robotics</td>
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<td>SBS Social/Behavioral Sciences Elective</td>
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<tr>
<th>Semester IV (Spring)</th>
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<tr>
<td></td>
<td>EETC 2316 Alternative Energy</td>
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<td>EETC 1313 and EETC 1314 or consent of program coordinator</td>
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<td>EETC 2332 PLC II</td>
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<td>EETC 2351 Data Acquisition &amp; Control</td>
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<td>EETC 1313 and EETC 1314 or consent of program coordinator</td>
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<td>EETC 2361 Instrumentation Technology</td>
<td>3</td>
<td>EETC 1313 and EETC 1314 or EETC 1350</td>
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<td>EETC 2390 Capstone</td>
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<td>Must be taken in the final semester or with consent of program coordinator</td>
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**Total Credit Hours Needed for Graduation:** 60-61

1MATH 1050
   Students not transferring to a 4-year institution may take MATH 1050. Students transferring to a 4-year institution must take both MATH 1710 and MATH 1720 or MATH 1730 to meet transfer requirements.

2ENST 1352
   Students not transferring to a 4-year institution may take ENST 1352. Students transferring to a 4-year institution must take PHYS 2010 to meet transfer requirements.

3HUM/FA/SBS
   See the list of General Education electives below.
### Mathematics
- MATH 1010 - Math for General Studies ♦
- MATH 1050 - Trigonometric Applications ♦
- MATH 1130 - College Algebra ♦★
- MATH 1530 - Introductory Statistics ♦★
- MATH 1630 - Finite Mathematics ♦★
- MATH 1710 - Precalculus Algebra ♦★
- MATH 1720 - Precalculus Trigonometry ♦★
- MATH 1730 - Precalculus ♦★
- MATH 1830 - Applied Calculus ♦★
- MATH 1910 - Calculus I ♦★

### Natural Sciences
- BIOL 1110 - General Biology I ♦★
- BIOL 1120 - General Biology II ♦★
- BIOL 2010 - Human Anatomy & Physiology I ♦★
- BIOL 2020 - Human Anatomy & Physiology II ♦★
- BIOL 2310 - General Botany I ♦★
- BIOL 2320 - General Botany II ♦★
- CHEM 1010 - Introductory Chemistry I ♦★
- CHEM 1020 - Introductory Chemistry II ♦★
- CHEM 1050 - Concepts of Chemistry ♦
- CHEM 1110 - General Chemistry I ♦★
- CHEM 1120 - General Chemistry II ♦★
- GEOL 1040 - Physical Geology ♦★
- GEOL 1050 - Historical Geology ♦★
- GEOL 1300 - Environmental Science W/Lab ♦★
- PHYS 1070 - Concepts of Physics ♦
- PHYS 2010 - Non-Calculus Physics I ♦★
- PHYS 2020 - Non-Calculus Physics II ♦★
- PHYS 2110 - Calculus Based Physics I ♦★
- PHYS 2120 - Calculus Based Physics II ♦★

### Social/Behavioral Sciences
- AAST 2200 - African-American Studies ♦★
- ANTH 1230 - Introduction to Cultural Anthropology ♦★
- ECON 2100 - Principles of Macroeconomics ♦★
- ECON 2200 - Principles of Microeconomics ♦★
- GEOG 1000 - Introduction to Geography ♦
- PHED 1100 - Concepts of Wellness ♦
- POLS 1010 - Introduction to Political Science ♦★
- POLS 1030 - American Government ♦★
- PSYC 1030 - Introduction to Psychology ♦★
- PSYC 2100 - Psychology of Human Development ♦★
- PSYC 2120 - Social Psychology ♦
- PSYC 2130 - Lifespan Psychology ♦★
- PSYC 2210 - Biological Basis of Behavior ♦
- SOCI 1010 - Introduction to Sociology ♦★
- SOCI 1040 - Social Problems ♦★
- WGST 2050 - Introduction to Women/Gender Studies ♦★

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**2019-2020 General Education Electives by Category**

♦ This is a **General Education** course transferable within the Tennessee Board of Regents System.

★ This course is directly equivalent to a course at the University of Tennessee, Knoxville.

### Communication
- COMM 2025 - Fundamentals of Communication ♦
- COMM 2045 - Public Speaking ♦★
- ENGL 1010 - English Composition I ♦★
- ENGL 1020 - English Composition II ♦★

### Humanities/Fine Arts
- ART 2010 - Art History Survey I ♦★
- ART 2020 - Art History Survey II ♦★
- ENGL 2035 - Introduction to Fiction ♦★
- ENGL 2055 - African-American Literature ♦★
- ENGL 2110 - Early American Literature ♦★
- ENGL 2120 - Modern American Literature ♦★
- ENGL 2150 - Appalachian Literature ♦
- ENGL 2210 - Early British Literature ♦★
- ENGL 2220 - Modern British Literature ♦★
- ENGL 2310 - Early World Literature ♦★
- ENGL 2320 - Modern World Literature ♦★
- ENGL 2510 - Introduction to Poetry ♦★
- ENGL 2520 - Introduction to Drama ♦★
- ENGL 2860 - Introduction to Film ♦★
  (ENGL 2860 will not fulfill a literature elective.)
- MUS 1030 - Music Appreciation ♦★
- MUS 1035 - History of Jazz ♦
- PHIL 1030 - Introduction to Philosophy ♦★
- PHIL 1040 - Introduction to Ethics ♦★
- PHIL 1300 - Critical Thinking ♦★
- PHIL 1500 - Philosophy & Film ♦
- PHIL 2200 - Introduction to World Religions ♦★
- PHO 1200 - History of Photography ♦
- THEA 1030 - Introduction to Theatre ♦★

### Social/Behavioral Sciences
- AAST 2200 - African-American Studies ♦★
- ANTH 1230 - Introduction to Cultural Anthropology ♦★
- ECON 2100 - Principles of Macroeconomics ♦★
- ECON 2200 - Principles of Microeconomics ♦★
- GEOG 1000 - Introduction to Geography ♦
- PHED 1100 - Concepts of Wellness ♦
- POLS 1010 - Introduction to Political Science ♦★
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- PSYC 1030 - Introduction to Psychology ♦★
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- SOCI 1010 - Introduction to Sociology ♦★
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- WGST 2050 - Introduction to Women/Gender Studies ♦★

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Revised: March 28, 2019 for AAS Checklists