## Electrical Engineering Technology, A.A.S. - Automated Industrial Systems Option

### Required Courses

<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>No</td>
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<td></td>
<td>EETC 1331 Digital Fundamentals</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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<table>
<thead>
<tr>
<th>Semester II (Spring)</th>
<th>Required Courses</th>
<th>Credit Hours</th>
<th>Prerequisite (Corequisite)</th>
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<th>Available Online</th>
<th>Grade / Term Completed</th>
</tr>
</thead>
<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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<tr>
<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>ENST 1362 Industrial Printreading</td>
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<td>HUM/FA Humanities/Fine Arts Elective</td>
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<tr>
<th>Semester III (Fall)</th>
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<th>Available Online</th>
<th>Grade / Term Completed</th>
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</thead>
<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>Yes</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>ENST 2361 Fluid Power Systems</td>
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<tr>
<th>Semester IV (Spring)</th>
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<th>Credit Hours</th>
<th>Prerequisite (Corequisite)</th>
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<th>Available Online</th>
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<tbody>
<tr>
<td></td>
<td>EETC 2351 Data Acquisition &amp; Control</td>
<td>3</td>
<td>EETC 1313 and EETC 1314 or consent of program coordinator</td>
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<tr>
<td></td>
<td>EETC 2361 Instrumentation Technology</td>
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<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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<td>ENST 1360 Mechanical Power Transmission</td>
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<td>EETC 1300 or ENST 1340</td>
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<td>SBS Social/Behavioral Sciences Elective</td>
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</table>

**Total Credit Hours Needed for Graduation: 60-61**

1. MATH 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.

2. ENST 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.

3. HUM/FA/SBS
   See the list of General Education electives below.

03-29-2019 aa
### 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

### 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

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.

Revised: March 28, 2019 for AAS Checklists