## Engineering Technology/Automated Industrial Systems Concentration

<table>
<thead>
<tr>
<th>SEMESTER</th>
<th>CREDIT HOURS</th>
<th>TERM COMPLETED</th>
<th>GRADE</th>
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<tbody>
<tr>
<td><strong>Semester I (Fall)</strong></td>
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<tr>
<td>EET 1001 Introduction to Electrical Engineering Technology</td>
<td>1</td>
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<tr>
<td>EET 1012 Electrical Circuits I W/Lab</td>
<td>3</td>
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<tr>
<td>ENGL 1010 English Composition I</td>
<td>3</td>
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<tr>
<td>ENGT 1010 Engineering Technology Technical Communication</td>
<td>3</td>
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<tr>
<td>MATH(^1) Mathematics Elective</td>
<td>3-5</td>
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<tr>
<td>MET 1005 Shop Fundamentals &amp; Basic Safety</td>
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<td><strong>Semester II (Spring)</strong></td>
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<tr>
<td>EET 1055 Industrial Electricity</td>
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<tr>
<td>EET 1210 Active Devices I W/Lab</td>
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<td>ENGT 1200(^2) Industrial Science</td>
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<td>HUM/FA(^1) Humanities/Fine Arts Elective</td>
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<tr>
<td>MET 1060 Maintenance Printreading Applications W/Lab</td>
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<td><strong>Semester III (Fall)</strong></td>
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<tr>
<td>EET 2430 Robotics &amp; Automation</td>
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<tr>
<td>EET 2910 Data Acquisition &amp; Control</td>
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<tr>
<td>EET 2920 Programmable Controllers</td>
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<td>GEN ED(^3) General Education Elective</td>
<td>3-5</td>
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<tr>
<td>MET 2022 Fluid Mechanics &amp; Power Applications W/Lab</td>
<td>3</td>
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<td>MET 2030 Machine Elements W/Lab</td>
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<td><strong>Semester IV (Spring)</strong></td>
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<tr>
<td>EET 2235 Instrumentation Technology</td>
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<td>EET 2925 Advanced PLCs</td>
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<tr>
<td>ENGT 2995 Engineering Technology Capstone</td>
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<td>ET(^4) Printreading/Drawing Elective</td>
<td>3</td>
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<tr>
<td>SBS(^1) Social/Behavioral Sciences Elective</td>
<td>3</td>
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<tr>
<td><strong>Total Credit Hours Needed for Graduation:</strong></td>
<td><strong>60</strong></td>
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\(^1\)MATH/HUM/FA/SBS  See the list of General Education electives below.

\(^2\)ENGT 1200  Students not transferring to a 4-year institution should take ENGT 1200. Students transferring to a 4-year institution must take PHYS 2010 to meet transfer requirements.

\(^3\)GEN ED  Elective to be chosen from one unduplicated course in the categories of Communication, Humanities/Fine Arts, Mathematics/Natural Sciences or Social/Behavioral Sciences. See the list of General Education electives below.

\(^4\)ET  Elective to be chosen from CET 1100 or MET 1100. Students should see their advisor to determine course selection.
2015-2016 General Education Electives for A.A.S. Degrees

Communication

- ENGL 1010 - English Composition I ♦ ★
- ENGL 1020 - English Composition II ♦ ★
- SPCH 2100 - Public Speaking ♦ ★

Humanities/Fine Arts

- ARTH 2010 - Survey of Art History I ♦ ★
- ARTH 2020 - Survey of Art History II ♦ ★
- ENGL 2110 - Early American Literature ♦ ★
- ENGL 2120 - Modern American Literature ♦ ★
- ENGL 2210 - British Literature: 650-1784 ♦ ★
- ENGL 2220 - British Literature: 1785-Present ♦ ★
- ENGL 2310 - World Literature: 2500 BCE-1650 ♦ ★
- ENGL 2320 - World Literature: 1650-Present ♦ ★
- ENGL 2331 - African-American Literature ♦ ★
- ENGL 2510 - Introduction to Poetry ♦ ★
- ENGL 2520 - Introduction to Drama ♦ ★
- ENGL 2530 - Introduction to Fiction ♦ ★
- ENGL 2810 - Introduction to Film Studies ♦ ★
- ENGL 2810 will fulfill a humanities elective but not the literature elective.
- MUS 1030 - Music Appreciation ♦ ★
- PHIL 1030 - Introduction to Philosophy ♦ ★
- PHIL 1500 - Philosophy & Film ♦
- PHIL 2010 - Survey of World Religions ♦ ★
- PHIL 2400 - Introduction to Ethics ♦ ★
- PHO 1200 - History of Photography ♦
- THEA 1030 - Introduction to Theatre ♦ ★

Mathematics

- MATH 1010 - Survey of Mathematics ♦ ★
- MATH 1130 - College Algebra ♦ ★
- MATH 1530 - Elementary Probability & Statistics ♦ ★
- MATH 1630 - Finite Mathematics ♦ ★
- MATH 1710 - Precalculus Algebra ♦ ★
- MATH 1720 - Precalculus Trigonometry ♦ ★
- MATH 1730 - Precalculus ♦ ★
- MATH 1830 - Basic Calculus & Modeling ♦ ★
- MATH 1910 - Calculus I ♦ ★

Natural Sciences

- BIOL 1110 - General Biology I ♦ ★
- BIOL 1120 - General Biology II ♦ ★
- BIOL 1310 - Concepts of Biology ♦
- BIOL 2010 - Human Anatomy & Physiology I ♦ ★
- BIOL 2020 - Human Anatomy & Physiology II ♦ ★
- BOT 1010 - Fundamentals of Botany I ♦ ★
- BOT 1020 - Fundamentals of Botany II ♦ ★
- CHEM 1010 - Principles of Chemistry ♦ ★
- CHEM 1020 - Basic Organic & Biochemistry ♦ ★
- CHEM 1110 - General Chemistry I ♦ ★
- CHEM 1120 - General Chemistry II ♦ ★
- CHEM 1310 - Concepts of Chemistry ♦
- GEOL 1040 - Physical Geology ♦ ★
- GEOL 1050 - Historical Geology ♦ ★
- GEOL 1300 - The Environment W/Lab ♦ ★
- GEOL 1310 - Concepts of Earth Science ♦
- PHYS 1300 - Concepts of Physics ♦
- PHYS 2010 - Noncalculus Based Physics I ♦ ★
- PHYS 2020 - Noncalculus Based Physics II ♦ ★
- PHYS 2110 - Calculus Based Physics I ♦ ★
- PHYS 2120 - Calculus Based Physics II ♦ ★

Social/Behavioral Sciences

- ANT 1300 - Cultural Anthropology ♦ ★
- ECON 2010 - Macroeconomics ♦ ★
- ECON 2020 - Microeconomics ♦ ★
- GEOG 1000 - Introduction to Geography ♦
- HIST 2040 - African-American Studies ♦ ★
- PHIL 1100 - Concepts of Wellness ♦
- POLS 1020 - Introduction to Political Science ♦ ★
- POLS 1030 - American Government ♦ ★
- PSYC 1030 - General Psychology ♦ ★
- PSYC 2100 - Psychology of Human Development ♦ ★
- PSYC 2130 - Lifespan Psychology ♦ ★
- SOCI 1010 - Introduction to Sociology ♦ ★
- SOCI 1020 - Social Problems ♦ ★
- WMN 2200 - Women in Society ♦ ★

♦ 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.