# Engineering Technology/Industrial Maintenance 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>ENGL 1010  English Composition I</td>
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<tr>
<td>ENGT 1010  Engineering Technology Technical Communication</td>
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<tr>
<td>MATH 1710  Precalculus Algebra</td>
<td>3</td>
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<tr>
<td>MET 1022  Shop Practices W/Lab</td>
<td>3</td>
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<tr>
<td>MET 2111  Industrial Safety Management</td>
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<td><strong>Semester II (Spring)</strong></td>
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<tr>
<td>EET 1001  Introduction to Electrical Engineering Technology</td>
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<tr>
<td>EET 1012  Electrical Circuits I W/Lab</td>
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<td>MATH 1720  Precalculus Trigonometry</td>
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<tr>
<td>MET 1060  Maintenance Printreading Applications W/Lab</td>
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<tr>
<td>MET 2022  Fluid Mechanics &amp; Power Applications W/Lab</td>
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<tr>
<td>MET 2070  Welding Methods &amp; Practices</td>
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<td><strong>Semester III (Fall)</strong></td>
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<tr>
<td>EET 1055  Industrial Electricity</td>
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<td>EET 2235  Instrumentation Technology</td>
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<td>MET 2030  Machine Elements W/Lab</td>
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<tr>
<td>MET 2750  CNC Machining &amp; Automation</td>
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<td>SBS$^1$  Social/Behavioral Sciences Elective</td>
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<td><strong>Semester IV (Spring)</strong></td>
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<td>EET 2920  Programmable Controllers</td>
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<tr>
<td>ENGT 2995  Engineering Technology Capstone</td>
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<td>ET$^2$  Engineering Technology Guided Elective</td>
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<td>HUM/FA$^1$  Humanities/Fine Arts Elective</td>
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<tr>
<td>PHYS 2010$^3$  Non-Calculus-Based Physics I</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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$^1$SBS / HUM/FA
See the list of General Education electives below.

$^2$ET
Elective to be chosen from ENGT 2021 or other technology course. Students should see their advisor to determine course selection.

$^3$PHYS 2010
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.
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 2910 - Introduction to Poetry ★
- ENGL 2920 - Introduction to Drama ★
- ENGL 2930 - Introduction to Fiction ★
- ENGL 2940 - Introduction to Film Studies ★
- ENGL 2950 - 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 1210 - 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 ★
- PHED 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 course is directly equivalent to a course at the University of Tennessee, Knoxville.