# 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>
<td>3</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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<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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<tr>
<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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<tr>
<td>SBS(^1)  Social/Behavioral Sciences Elective</td>
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<td><strong>Semester IV (Spring)</strong></td>
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<tr>
<td>EET 2920  Programmable Controllers</td>
<td>2</td>
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<td>ENGT 2995  Engineering Technology Capstone</td>
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<td>ET(^2)  Engineering Technology Guided Elective</td>
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<tr>
<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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**Total Credit Hours Needed for Graduation:** \(60\)

\(^1\)SBS / HUM/FA  See the list of General Education electives below.

\(^2\)ET  Elective to be chosen from ENGT 2021 or other technology course; see advisor to determine course selection.

\(^3\)PHYS 2010  Students not transferring to a 4-year institution may take ENGT 1200. Students transferring to a 4-year institution must take PHYS 2010 to meet transfer requirements.
### 2017-2018 General Education Electives by Category

#### 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 – Early British Literature ★
- ENGL 2220 – Modern British Literature ★★
- ENGL 2310 - Early World Literature ★★
- ENGL 2320 - Modern World Literature ★★
- 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 1300 - Critical Thinking ★★
- 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 – 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 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 2100 – Principles of Macroeconomics ★★
- ECON 2200 - Principles of 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 2120 - Social Psychology★
- 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.

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