## Engineering Technology/Manufacturing 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>
<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 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 1100  Fundamentals of Mechanical Drawing W/Lab</td>
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<td><strong>Semester II (Spring)</strong></td>
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<tr>
<td>MATH 1720  Precalculus Trigonometry</td>
<td>3</td>
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<tr>
<td>MET 1012  Materials &amp; Manufacturing Processes</td>
<td>4</td>
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<tr>
<td>MET 2310  Geometrics &amp; Coordinate Measuring</td>
<td>4</td>
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<tr>
<td>MET 2700  CNC Milling</td>
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<td><strong>Semester III (Fall)</strong></td>
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<tr>
<td>ENGT 2021  Project Scheduling W/Lab</td>
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<tr>
<td>MET 1040  Applied Statics</td>
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<tr>
<td>MET 2720  CNC Turning</td>
<td>4</td>
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<tr>
<td>PHYS 2010(^1)  Noncalculus Based Physics I</td>
<td>4</td>
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<td><strong>Semester IV (Spring)</strong></td>
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<tr>
<td>ENGT 2995  Engineering Technology Capstone</td>
<td>3</td>
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<tr>
<td>HUM/FA(^2)  Humanities/Fine Arts Elective</td>
<td>3</td>
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<tr>
<td>MET 1050  Strength of Materials</td>
<td>3</td>
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<td>MET 2742  Advanced CNC Machining</td>
<td>4</td>
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<td>SBS(^3)  Social/Behavioral Sciences Elective</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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\(^1\)PHYS 2010
Students not transferring to a 4-year institution may complete ENGT 1200. Students transferring to a 4-year institution must complete PHYS 2010 to meet transfer requirements.

\(^2\)HUM/FA/SBS
See the list of General Education electives below.
## 2014-2015 General Education Electives by Category

### Communication
- ENGL 1010 - English Composition I ♠★
- ENGL 1020 - English Composition II ♠★
- SPCH 2100 - Public Speaking ♠★

### History
- HIST 1010 - Western Civilization I ♠★
- HIST 1020 - Western Civilization II ♠★
- HIST 1110 - World Civilization I ♠★
- HIST 1120 - World Civilization II ♠★
- HIST 2010 - U.S. History I ♠★
- HIST 2020 - U.S. History II ♠★

### 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 2100 - 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 1410 - Human Anatomy & Physiology I ♠★
- BIOL 1420 - 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 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.