# Engineering Technology—Civil Engineering Concentration
## Surveying Technology Option

<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>ET¹ Engineering Technology Guided Elective</td>
<td>3</td>
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<tr>
<td>MATH 1910² Calculus I</td>
<td>4</td>
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<tr>
<td>SURV 2200 Fundamentals of Geographic Information Systems</td>
<td>3</td>
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<td><strong>Semester II (Spring)</strong></td>
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<tr>
<td>ENGT 2021 Project Scheduling W/Lab</td>
<td>3</td>
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<tr>
<td>SBS³ Social/Behavioral Sciences Elective</td>
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<tr>
<td>SURV 1550 Surveying Principles W/Lab</td>
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<tr>
<td>SURV 2260 Civil 3D Land Development Concepts</td>
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<td><strong>Semester III (Fall)</strong></td>
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<tr>
<td>HUM/FA² Humanities/Fine Arts Elective</td>
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<td>SURV 2317 Advanced GIS</td>
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<td>SURV 2510 Advanced Surveying W/Lab</td>
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<td>SURV 2560 Geodetic Surveying</td>
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<td><strong>Semester IV (Spring)</strong></td>
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<tr>
<td>ENGT 2995 Engineering Technology Capstone</td>
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<tr>
<td>PHYS 2010⁴ Noncalculus Based Physics I</td>
<td>4</td>
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<tr>
<td>SURV 2520 Legal Aspects of Surveying</td>
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<td>SURV 2567 Positioning With GPS</td>
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<td>SURV 2730 Surveying Hydrology</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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¹ET  
Elective to be chosen from CET 1100 or MET 1100. CET and EET majors are encouraged to complete CET 1100. Students should see their advisor to determine course selection.

²MATH 1910  
Enrollment in MATH 1910 requires complete of high school algebra I and algebra II and geometry and precalculus/trigonometry and an ACT math score of at least 26 or MATH 1710 and MATH 1720 or MATH 1730.

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

⁴PHYS 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.
### 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 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 ★★
- 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.