## Engineering Technology, Civil Engineering Concentration, A.A.S. Construction Science Option

### Required Courses

<table>
<thead>
<tr>
<th>Semester I (Fall)</th>
<th>Credit Hours</th>
<th>Prerequisite (Corequisite)</th>
<th>Term Offered</th>
<th>Available Online</th>
<th>Grade / Term Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADD 1200 AutoCAD Fundamentals</td>
<td>3</td>
<td></td>
<td>No</td>
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<tr>
<td>CIVT 1250 Materials &amp; Methods of Construction</td>
<td>3</td>
<td></td>
<td>No</td>
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<tr>
<td>COLL 1000 First Year Seminar</td>
<td>1</td>
<td></td>
<td>Yes</td>
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<tr>
<td>COMM 2025 Fundamentals of Communication or COMM 2045 Public Speaking</td>
<td>3</td>
<td>(ENGL 1010)</td>
<td>Yes</td>
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<tr>
<td>ENGL 1010 English Composition I</td>
<td>3</td>
<td>Satisfactory test scores or completion of corequisite requirements</td>
<td>Yes</td>
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</tr>
<tr>
<td>MATH Elective</td>
<td>3-5</td>
<td></td>
<td>Yes</td>
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<table>
<thead>
<tr>
<th>Semester II (Spring)</th>
<th>Credit Hours</th>
<th>Prerequisite (Corequisite)</th>
<th>Term Offered</th>
<th>Available Online</th>
<th>Grade / Term Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVT 1550 Surveying Fundamentals</td>
<td>4</td>
<td>(MATH 1050 or MATH 1720 or MATH 1730)</td>
<td>No</td>
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<tr>
<td>CIVT 2100 Construction Cost Estimating</td>
<td>3</td>
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<td>No</td>
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<tr>
<td>CIVT 2350 Construction Materials Testing</td>
<td>4</td>
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<td>No</td>
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<tr>
<td>ENGL 2950 Business &amp; Technical Writing</td>
<td>3</td>
<td>ENGL 1010</td>
<td>No</td>
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<tr>
<td>SBS Elective</td>
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<tr>
<th>Semester III (Fall)</th>
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<th>Prerequisite (Corequisite)</th>
<th>Term Offered</th>
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<th>Grade / Term Completed</th>
</tr>
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<tbody>
<tr>
<td>ARCT 2430 Building Environmental Systems</td>
<td>3</td>
<td>CIVT 1250</td>
<td>No</td>
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<tr>
<td>CHEM 1110 General Chemistry I</td>
<td>4</td>
<td>ACT math score of at least 22 or MATH 1130 or MATH 1710 or MATH 1730</td>
<td>No</td>
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<tr>
<td>CIVT 2500 Soil Mechanics</td>
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<td>CIVT 2350</td>
<td>No</td>
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<tr>
<td>MATH Elective</td>
<td>3-5</td>
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<td>Yes</td>
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<tr>
<th>Semester IV (Spring)</th>
<th>Credit Hours</th>
<th>Prerequisite (Corequisite)</th>
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<th>Grade / Term Completed</th>
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<tbody>
<tr>
<td>ENGL 1020 English Composition II</td>
<td>3</td>
<td>ENGL 1010</td>
<td>Yes</td>
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<tr>
<td>GEOL 1040 Physical Geology</td>
<td>4</td>
<td>HS algebra I and algebra II and ACT math score of at least 21 or MATH 1030 or MATH 1050 or MATH 1130 or MATH 1410 or MATH 1420 or MATH 1710 or MATH 1720 or MATH 1730 of MATH 1910</td>
<td>No</td>
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<tr>
<td>HUM/FA Humanities/Fine Arts Elective</td>
<td>3</td>
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<td>Yes</td>
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<tr>
<td>PHYS 2010 Non-Calculus Physics I</td>
<td>4</td>
<td>MATH 1710 and MATH 1720 or MATH 1730</td>
<td>Yes</td>
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</table>

**Total Credit Hours Needed for Graduation: 60-61**

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

*MATH
Students transferring to a 4-year institution must take MATH 1910 and MATH 1920 to meet transfer requirements. Enrollment in MATH 1910 requires completion of MATH 1710 and MATH 1720 with a grade of C or better, or MATH 1730 with a grade of C or better.

*CHEM 1110
Enrollment in CHEM 1110 requires completion of MATH 1710 or MATH 1730.
2019-2020 General Education Electives by Category

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.

Communication
- COMM 2025 - Fundamentals of Communication ♦
- COMM 2045 - Public Speaking ♦★
- ENGL 1010 - English Composition I ♦★
- ENGL 1020 - English Composition II ♦★

Humanities/Fine Arts
- ART 2010 - Art History Survey I ♦★
- ART 2020 - Art History Survey II ♦★
- ENGL 2035 - Introduction to Fiction ♦★
- ENGL 2055 - African-American Literature ♦★
- ENGL 2110 - Early American Literature ♦★
- ENGL 2120 - Modern American Literature ♦★
- ENGL 2150 - Appalachian Literature ♦
- ENGL 2210 - Early British Literature ♦★
- ENGL 2220 - Modern British Literature ♦★
- ENGL 2310 - Early World Literature ♦★
- ENGL 2320 - Modern World Literature ♦★
- ENGL 2510 - Introduction to Poetry ♦★
- ENGL 2520 - Introduction to Drama ♦★
- ENGL 2860 - Introduction to Film ♦★
- (ENGL 2860 will not fulfill a literature elective.)
- MUS 1030 - Music Appreciation ♦★
- MUS 1035 - History of Jazz ♦
- PHIL 1030 - Introduction to Philosophy ♦★
- PHIL 1040 - Introduction to Ethics ♦★
- PHIL 1300 - Critical Thinking ♦★
- PHIL 1500 - Philosophy & Film ♦
- PHIL 2200 - Introduction to World Religions ♦★
- PHO 1200 - History of Photography ♦
- THEA 1030 - Introduction to Theatre ♦★

Mathematics
- MATH 1010 - Math for General Studies ♦★
- MATH 1050 - Trigonometric Applications ♦
- 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 2010 - Human Anatomy & Physiology I ♦★
- BIOL 2020 - Human Anatomy & Physiology II ♦★
- BIOL 2310 - General Botany I ♦★
- BIOL 2320 - General Botany II ♦★
- CHEM 1010 - Introductory Chemistry I ♦★
- CHEM 1020 - Introductory Chemistry II ♦★
- CHEM 1050 - Concepts of Chemistry ♦
- CHEM 1110 - General Chemistry I ♦★
- CHEM 1120 - General Chemistry II ♦★
- GEOL 1040 - Physical Geology ♦★
- GEOL 1050 - Historical Geology ♦★
- GEOL 1300 - Environmental Science W/Lab ♦★
- PHYS 1070 - Concepts of Physics ♦
- PHYS 2010 - Non-Calculus Physics I ♦★
- PHYS 2020 - Non-Calculus Physics II ♦★
- PHYS 2110 - Calculus Based Physics I ♦★
- PHYS 2120 - Calculus Based Physics II ♦★

Social/Behavioral Sciences
- AAST 2200 - African-American Studies ♦★
- ANTH 1230 - Introduction to Cultural Anthropology ♦★
- ECON 2100 - Principles of Macroeconomics ♦★
- ECON 2200 - Principles of Microeconomics ♦★
- GEOG 1000 - Introduction to Geography ♦
- PHED 1100 - Concepts of Wellness ♦
- POLS 1010 - Introduction to Political Science ♦★
- POLS 1030 - American Government ♦★
- PSYC 1030 - Introduction to Psychology ♦★
- PSYC 2100 - Psychology of Human Development ♦★
- PSYC 2120 - Social Psychology ♦
- PSYC 2130 - Lifespan Psychology ♦★
- PSYC 2210 - Biological Basis of Behavior ♦
- SOCI 1010 - Introduction to Sociology ♦★
- SOCI 1040 - Social Problems ♦★
- WGST 2050 - Introduction to Women/Gender Studies★

Revised: March 28, 2019 for AAS Checklists