# 2019-2020 Pellissippi State Community College
## Mechanical Engineering Technology, A.A.S.

<table>
<thead>
<tr>
<th>Required Courses</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><strong>Semester I (Fall)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COLL 1000 First Year Seminar</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 1010 English Composition I</td>
<td>3</td>
<td>Satisfactory test scores or completion of corequisite requirements</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENST 1310 Computers in Engineering Technology</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENST 1340 Machine Tool Technology</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 1730 Precalculus</td>
<td>5</td>
<td>HS algebra I and II and precalculus/trigonometry and ACT math score of at least 23, or MATH 1030, or equivalent course and ACT reading score of at least 19 or equivalent reading score</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>or MATH 1710</td>
<td></td>
<td>HS school algebra I and II and ACT math score of at least 22 and an ACT reading score of at least 19 or equivalent math and reading scores or MATH 1030 or equivalent course</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and MATH 1720</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester II (Spring)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMM 2025 Fundamentals of Communication or COMM 2045 Public Speaking</td>
<td>3</td>
<td>(ENGL 1010)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EETC 1350 Electrical Technology for MET</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENST 1311 CAD I W/SolidWorks</td>
<td>3</td>
<td>ENST 1310</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENST 1370 Manufacturing Processes</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METC 1310 Statics with Applications</td>
<td>3</td>
<td>MATH 1710 or MATH 1730</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester III (Fall)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENST 1351 GD &amp; T</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENST 1372 3-D Additive Manufacturing</td>
<td>3</td>
<td>ENST 1311 and ENST 1370 or consent of program coordinator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HUM1 Humanities/Fine Arts Elective</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METC 1320 Fluid Mechanics</td>
<td>3</td>
<td>MATH 1710 or MATH 1730</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METC 2310 Strength of Materials</td>
<td>3</td>
<td>METC 1310</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semester IV (Spring)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENST 2390 Capstone</td>
<td>3</td>
<td>Must be taken in the final semester or with consent of program coordinator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ET2 Engineering Technology Elective</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METC 2320 Mechanical Systems Design</td>
<td>3</td>
<td>METC 1310 and MATH 1710 and MATH 1720 or MATH 1730</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 2010 Non-Calculus Physics I</td>
<td>4</td>
<td>MATH 1710 and MATH 1720 or MATH 1730</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBS1 Social/Behavioral Sciences Elective</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

1HUM/FA / SBS
See the list of General Education electives below.
2ET
Elective to be chosen from ENST 1312 or ENST 1371 or ENST 2340.
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 ♦ ★
- GEGO 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