

## Secondary-Postsecondary Pathway Alignment

Postsecondary Institution: Eastern Kentucky University  
 Secondary School: Harlan County HS

HS Pathway: Mechanical Engineering  
 Post-Secondary Degree: Engineering Tech. Management (B.S.)

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
9	<ul style="list-style-type: none"> <li>o English I (1)</li> <li>o Algebra I (1)</li> <li>o Science (1)</li> <li>o Social Studies (1)</li> <li>o Physical Education (.5)</li> <li>o Health (.5)</li> </ul>	<ul style="list-style-type: none"> <li>o Engineering I (1)</li> </ul>	
10	<ul style="list-style-type: none"> <li>o English II (1)</li> <li>o Geometry (1)</li> <li>o Science (1)</li> <li>o Social Studies (1)</li> <li>o Visual and Performing Arts (1)</li> </ul>	<ul style="list-style-type: none"> <li>o Mechanical Engineering (1)</li> </ul>	
11	<ul style="list-style-type: none"> <li>o English (1)</li> <li>o Algebra II (1)</li> <li>o Science (1)</li> <li>o Social Studies (1)</li> </ul>	<ul style="list-style-type: none"> <li>o Engineering Specialization Course aligned to Engineering Career Pathway (1)</li> </ul>	
12	<ul style="list-style-type: none"> <li>o English (1)</li> <li>o English (1)</li> <li>o Personal Finance (1)</li> <li>o Electives (2)</li> </ul>	<ul style="list-style-type: none"> <li>o Engineering Capstone OR Engineering Co-op OR Engineering Internship OR Principles of Career and Technical Education OR AP Computer Science A OR AP Computer Science Principles OR Computational Thinking (1)</li> </ul>	<ul style="list-style-type: none"> <li>o High School Diploma</li> <li>o KWIB Approved Industry Certification(s)</li> </ul>
13	<ul style="list-style-type: none"> <li>o BTO 100 Orientation (1)</li> <li>o E-1A Written Communication (3)</li> <li>o E-2 MAT 120 Trigonometry (3)</li> <li>o E-4 CHEM 101/101L Chemistry/Lab (4)</li> <li>o E-1B Written Communication (3)</li> <li>o E-1C Oral Communication (3)</li> </ul>	<ul style="list-style-type: none"> <li>o AEM 201 Metallic Material Process (3)</li> <li>o TEC 161 Computer Apps in Tech (3)</li> <li>o AEM 195 Computer Aided Drafting (3)</li> <li>o EET 251 Electricity and Electronics (3)</li> <li>o AEM 390 Advanced Computer Aided Design (3)</li> </ul>	
14	<ul style="list-style-type: none"> <li>o E-5B ECO 230 Principles of Economics (3)</li> <li>o E-4 PHY 131 College Physics (5)</li> <li>o STA 215 Elementary Probability &amp; Stats (3)</li> <li>o Elective (3)</li> <li>o MAT 211 Applied Calculus (3)</li> <li>o E-5A Historical Perspectives (3)</li> </ul>	<ul style="list-style-type: none"> <li>o AEM 202 Introduction to Quality (3)</li> <li>o AEM 301 Non-Metallic Materials Processes (3)</li> <li>o AEM Tech Elective (3)</li> </ul>	<ul style="list-style-type: none"> <li>o Technology A.A.S. Degree Applied Engineering Concentration</li> </ul>

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
15	<input type="checkbox"/> E-3A Arts (3) <input type="checkbox"/> E-3B Humanities (3) <input type="checkbox"/> Elective (3)	<input type="checkbox"/> AEM 308 Methods Lean Operation (3) <input type="checkbox"/> AEM 310W Computer Communication in Industry (3) <input type="checkbox"/> AEM 330 Materials Testing and Metrology (3) <input type="checkbox"/> AEM Tech Elective (3) <input type="checkbox"/> AEM 349 Cooperative Study in Technology (1) <input type="checkbox"/> CON 420 Engineering Economy (3) <input type="checkbox"/> AEM Tech Elective (3) <input type="checkbox"/> AEM 332 Process Control & Auditing (3) <input type="checkbox"/> BTS 300 Professional Skills Seminar (0)	
16	<input type="checkbox"/> E-6 Diversity of Perspectives & Exp. (3) <input type="checkbox"/> Elective (4) <input type="checkbox"/> E-6 Diversity of Perspectives & Exp. (3)	<input type="checkbox"/> AEM 352 Automated Devices (3) <input type="checkbox"/> AEM 371 Hydraulics & Pneumatics (3) <input type="checkbox"/> AEM 407 Fundamentals of Project Management (3) <input type="checkbox"/> AEM 408 Human Resource Development (3) <input type="checkbox"/> AEM 499 Manufacturing Senior Project (3) <input type="checkbox"/> AEM 467 Comp. Exam (0) <input type="checkbox"/> AEM Tech Elective (3) <input type="checkbox"/> BTS 400 College to Career Seminar (0)	<input type="checkbox"/> Engineering Technology Management B.S. Degree Manufacturing Concentration

Submitted By Secondary Partner: Scott Date: 2/15/2021 Postsecondary Partner: ASR 2/12/2021

Date: \_\_\_\_\_

(Must include both signatures)