

## Secondary-Postsecondary Pathway Alignment

Postsecondary Institution: Eastern Kentucky University  
 Secondary School: \_\_\_\_\_

Pathway: Engineering Technology Management M.S. Degree  
 Dual College Credits: 24

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
9	<ul style="list-style-type: none"> <li>○ English I (1)</li> <li>○ Algebra I (1)</li> <li>○ Biology I (1)</li> <li>○ Social Studies (1)</li> <li>○ Physical Education (.5)</li> <li>○ Health (.5)</li> <li>○ World Language (1)</li> </ul>	<ul style="list-style-type: none"> <li>○ Engineering I (1)</li> </ul>	
10	<ul style="list-style-type: none"> <li>○ English II (1)</li> <li>○ Geometry (1)</li> <li>○ Science Course (1)</li> <li>○ Social Studies (1)</li> <li>○ Visual and Performing Arts (1)</li> <li>○ World Language (1)</li> </ul>	<ul style="list-style-type: none"> <li>○ Engineering II (1)</li> </ul>	
11	<ul style="list-style-type: none"> <li>○ English Course (1)</li> <li>○ Algebra II (1)</li> <li>○ Science Course (1)</li> </ul> <p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ General Education Offering (3)</li> <li>○ General Education Offering (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ General Education Offering (3)</li> <li>○ General Education Offering (3)</li> </ul>	<ul style="list-style-type: none"> <li>○ Engineering Specialization Course aligned to Engineering Career Pathway (1)</li> </ul>	
12	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ General Education Offering (3)</li> <li>○ General Education Offering (3)</li> </ul>	<ul style="list-style-type: none"> <li>○ 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 (1)</li> </ul> <p><b><u>Eastern Kentucky University</u></b>  <b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ TEC 102 Technology and Society (3)</li> <li>○ AVN 170 Unmanned Aircraft Systems (3)</li> </ul>	<ul style="list-style-type: none"> <li>○ High School Diploma</li> <li>○ KWIB Approved Industry Certification(s) – Autodesk Inventor Certified User Articulates as ECU AEM 195 (3)</li> </ul>

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
13	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ BTO 100 Orientation (1)</li> <li>○ General Education Offering (3)</li> <li>○ General Education Offering (3)</li> <li>○ MAT 120 Trigonometry (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ CHE 101/101L Chemistry/Lab (4)</li> <li>○ STA 215 Intro to Statistical Reasoning (3)</li> </ul>	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ TEC 161 Computer Applications in Tech. (3)</li> <li>○ AEM 201 Metallic Material Processes (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ AEM 390 Advanced Computer Aided Design (3)</li> <li>○ EET 251 Electricity and Electronics (3)</li> </ul>	
14	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ ECO 230 Principles of Economics (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ PHY 131 College Physics (5)</li> <li>○ BTS 300 Professional Skills Seminar (0)</li> </ul>	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ AEM 330 Materials Testing and Metrology (3)</li> <li>○ AEM 202 Introduction to Quality (3)</li> <li>○ AEM 352 Automated Devices (3)</li> <li>○ AEM 308 Methods Lean Operations (3)</li> <li>○ Technical Elective (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ AEM 310W Computer Communications in Industry (3)</li> <li>○ AEM 332 Process Control &amp; Auditing (3)</li> <li>○ AEM 301 Non-Metallic Materials Processes (3)</li> <li>○ Technical Elective (3)</li> </ul>	<ul style="list-style-type: none"> <li>○ Technology A.A.S. Degree Applied Engineering Concentration</li> </ul>
15	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ MAT 211 Applied Calculus (3)</li> <li>○ Elective (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ BTO 400 College to Careers Seminar (0)</li> <li>○ Elective (4)</li> </ul>	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ AEM 349 Cooperative Study in Technology (1)</li> <li>○ AEM 371 Hydraulics &amp; Pneumatics (3)</li> <li>○ AEM 706 Six Sigma Quality (3)</li> <li>○ AEM 804 Project Management (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ AEM 499 Manufacturing Senior Project (3)</li> <li>○ AEM 801 Economics for Lean Operations (3)</li> <li>○ AEM 408 Human Resource Development (3)</li> <li>○ AEM 467 Comprehensive Exam for BS in AEM (0)</li> </ul> <p><b><u>Summer</u></b></p> <ul style="list-style-type: none"> <li>○ TEC 830 Creative Problem Solving (3)</li> </ul>	<ul style="list-style-type: none"> <li>○ Engineering Technology Management B.S. Degree Manufacturing Concentration</li> </ul>
16	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ Graduate Supporting Course (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ Graduate Supporting Course (3)</li> </ul>	<p><b><u>Eastern Kentucky University</u></b>  <b><u>Fall</u></b></p> <ul style="list-style-type: none"> <li>○ AEM 805 Operations Research (3)</li> <li>○ AEM 839 Applied Learning in Tech Management (3)</li> </ul> <p><b><u>Spring</u></b></p> <ul style="list-style-type: none"> <li>○ AEM 802 Productivity Assessment and Analysis (3)</li> <li>○ AEM 839 Applied Learning in Tech Management (3)</li> <li>○ GRD 868b Technology Management Oral Comp. Exam (0)</li> </ul>	<ul style="list-style-type: none"> <li>○ Technology Management M.S. Degree Engineering Operations Concentration</li> </ul>