

Secondary-Postsecondary Pathway Alignment

Postsecondary Institution: Eastern Kentucky University
Secondary School: _____

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

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
15	<ul style="list-style-type: none"> ○ E-3A Arts (3) ○ E-3B Humanities (3) ○ Elective (3) 	<ul style="list-style-type: none"> ○ AEM 308 Methods Lean Operation (3) ○ AEM 310W Computer Communication in Industry (3) ○ AEM 330 Materials Testing and Metrology (3) ○ AEM Tech Elective (3) ○ AEM 349 Cooperative Study in Technology (1) ○ CON 420 Engineering Economy (3) ○ AEM Tech Elective (3) ○ AEM 332 Process Control & Auditing (3) ○ BTS 300 Professional Skills Seminar (0) 	
16	<ul style="list-style-type: none"> ○ E-6 Diversity of Perspectives & Exp. (3) ○ Elective (4) ○ E-6 Diversity of Perspectives & Exp. (3) 	<ul style="list-style-type: none"> ○ AEM 352 Automated Devices (3) ○ AEM 371 Hydraulics & Pneumatics (3) ○ AEM 407 Fundamentals of Project Management (3) ○ AEM 408 Human Resource Development (3) ○ AEM 499 Manufacturing Senior Project (3) ○ AEM 467 Comp. Exam (0) ○ AEM Tech Elective (3) ○ BTS 400 College to Career Seminar (0) 	<ul style="list-style-type: none"> ○ Engineering Technology Management B.S. Degree Manufacturing Concentration

Secondary-Postsecondary Pathway Alignment

Postsecondary Institution: Eastern Kentucky University
Secondary School: _____

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

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
15	<ul style="list-style-type: none"> ○ E-3A Arts (3) ○ E-3B Humanities (3) ○ Elective (3) 	<ul style="list-style-type: none"> ○ AEM 308 Methods Lean Operation (3) ○ AEM 310W Computer Communication in Industry (3) ○ AEM 330 Materials Testing and Metrology (3) ○ AEM Tech Elective (3) ○ AEM 349 Cooperative Study in Technology (1) ○ CON 420 Engineering Economy (3) ○ AEM Tech Elective (3) ○ AEM 332 Process Control & Auditing (3) ○ BTS 300 Professional Skills Seminar (0) 	
16	<ul style="list-style-type: none"> ○ E-6 Diversity of Perspectives & Exp. (3) ○ Elective (4) ○ E-6 Diversity of Perspectives & Exp. (3) 	<ul style="list-style-type: none"> ○ AEM 352 Automated Devices (3) ○ AEM 371 Hydraulics & Pneumatics (3) ○ AEM 407 Fundamentals of Project Management (3) ○ AEM 408 Human Resource Development (3) ○ AEM 499 Manufacturing Senior Project (3) ○ AEM 467 Comp. Exam (0) ○ AEM Tech Elective (3) ○ BTS 400 College to Career Seminar (0) 	<ul style="list-style-type: none"> ○ Engineering Technology Management B.S. Degree Manufacturing Concentration

Secondary-Postsecondary Pathway Alignment

Postsecondary Institution: Eastern Kentucky University
Secondary School: _____

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

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
15	<ul style="list-style-type: none"> ○ E-3A Arts (3) ○ E-3B Humanities (3) ○ Elective (3) 	<ul style="list-style-type: none"> ○ AEM 308 Methods Lean Operation (3) ○ AEM 310W Computer Communication in Industry (3) ○ AEM 330 Materials Testing and Metrology (3) ○ AEM Tech Elective (3) ○ AEM 349 Cooperative Study in Technology (1) ○ CON 420 Engineering Economy (3) ○ AEM Tech Elective (3) ○ AEM 332 Process Control & Auditing (3) ○ BTS 300 Professional Skills Seminar (0) 	
16	<ul style="list-style-type: none"> ○ E-6 Diversity of Perspectives & Exp. (3) ○ Elective (4) ○ E-6 Diversity of Perspectives & Exp. (3) 	<ul style="list-style-type: none"> ○ AEM 352 Automated Devices (3) ○ AEM 371 Hydraulics & Pneumatics (3) ○ AEM 407 Fundamentals of Project Management (3) ○ AEM 408 Human Resource Development (3) ○ AEM 499 Manufacturing Senior Project (3) ○ AEM 467 Comp. Exam (0) ○ AEM Tech Elective (3) ○ BTS 400 College to Career Seminar (0) 	<ul style="list-style-type: none"> ○ Engineering Technology Management B.S. Degree Manufacturing Concentration

Secondary-Postsecondary Pathway Alignment

Postsecondary Institution: Eastern Kentucky University
Secondary School: _____

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

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
15	<ul style="list-style-type: none"> ○ E-3A Arts (3) ○ E-3B Humanities (3) ○ Elective (3) 	<ul style="list-style-type: none"> ○ AEM 308 Methods Lean Operation (3) ○ AEM 310W Computer Communication in Industry (3) ○ AEM 330 Materials Testing and Metrology (3) ○ AEM Tech Elective (3) ○ AEM 349 Cooperative Study in Technology (1) ○ CON 420 Engineering Economy (3) ○ AEM Tech Elective (3) ○ AEM 332 Process Control & Auditing (3) ○ BTS 300 Professional Skills Seminar (0) 	
16	<ul style="list-style-type: none"> ○ E-6 Diversity of Perspectives & Exp. (3) ○ Elective (4) ○ E-6 Diversity of Perspectives & Exp. (3) 	<ul style="list-style-type: none"> ○ AEM 352 Automated Devices (3) ○ AEM 371 Hydraulics & Pneumatics (3) ○ AEM 407 Fundamentals of Project Management (3) ○ AEM 408 Human Resource Development (3) ○ AEM 499 Manufacturing Senior Project (3) ○ AEM 467 Comp. Exam (0) ○ AEM Tech Elective (3) ○ BTS 400 College to Career Seminar (0) 	<ul style="list-style-type: none"> ○ Engineering Technology Management B.S. Degree Manufacturing Concentration

Secondary-Postsecondary Pathway Alignment

Postsecondary Institution: Eastern Kentucky University
Secondary School: _____

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

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
15	<ul style="list-style-type: none"> ○ E-3A Arts (3) ○ E-3B Humanities (3) ○ Elective (3) 	<ul style="list-style-type: none"> ○ AEM 308 Methods Lean Operation (3) ○ AEM 310W Computer Communication in Industry (3) ○ AEM 330 Materials Testing and Metrology (3) ○ AEM Tech Elective (3) ○ AEM 349 Cooperative Study in Technology (1) ○ CON 420 Engineering Economy (3) ○ AEM Tech Elective (3) ○ AEM 332 Process Control & Auditing (3) ○ BTS 300 Professional Skills Seminar (0) 	
16	<ul style="list-style-type: none"> ○ E-6 Diversity of Perspectives & Exp. (3) ○ Elective (4) ○ E-6 Diversity of Perspectives & Exp. (3) 	<ul style="list-style-type: none"> ○ AEM 352 Automated Devices (3) ○ AEM 371 Hydraulics & Pneumatics (3) ○ AEM 407 Fundamentals of Project Management (3) ○ AEM 408 Human Resource Development (3) ○ AEM 499 Manufacturing Senior Project (3) ○ AEM 467 Comp. Exam (0) ○ AEM Tech Elective (3) ○ BTS 400 College to Career Seminar (0) 	<ul style="list-style-type: none"> ○ Engineering Technology Management B.S. Degree Manufacturing Concentration

Secondary-Postsecondary Pathway Alignment

Postsecondary Institution: Eastern Kentucky University
Secondary School: _____

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

Grade	Academic Core	Technical Core	Diploma, Certifications(s), Certificate(s), Degree(s)
15	<ul style="list-style-type: none"> ○ E-3A Arts (3) ○ E-3B Humanities (3) ○ Elective (3) 	<ul style="list-style-type: none"> ○ AEM 308 Methods Lean Operation (3) ○ AEM 310W Computer Communication in Industry (3) ○ AEM 330 Materials Testing and Metrology (3) ○ AEM Tech Elective (3) ○ AEM 349 Cooperative Study in Technology (1) ○ CON 420 Engineering Economy (3) ○ AEM Tech Elective (3) ○ AEM 332 Process Control & Auditing (3) ○ BTS 300 Professional Skills Seminar (0) 	
16	<ul style="list-style-type: none"> ○ E-6 Diversity of Perspectives & Exp. (3) ○ Elective (4) ○ E-6 Diversity of Perspectives & Exp. (3) 	<ul style="list-style-type: none"> ○ AEM 352 Automated Devices (3) ○ AEM 371 Hydraulics & Pneumatics (3) ○ AEM 407 Fundamentals of Project Management (3) ○ AEM 408 Human Resource Development (3) ○ AEM 499 Manufacturing Senior Project (3) ○ AEM 467 Comp. Exam (0) ○ AEM Tech Elective (3) ○ BTS 400 College to Career Seminar (0) 	<ul style="list-style-type: none"> ○ Engineering Technology Management B.S. Degree Manufacturing Concentration