

# Major Academic Plan (MAP)

## Associate in Arts and Science BS in Electrical Engineering

Department of Engineering & Design  
College of Science, Technology, Engineering and Mathematics (CSTEM)

### **Why study Mechanical Engineering?**

Mechanical Engineering is among one of the country's highest paid occupations and lowest unemployment rates. The current economy thrives on innovation, and mechanical engineers are at the forefront of it, constantly developing not only new and exciting products, but also technologies that improve society and the world. Be part of the future!

**CSTEM Coordinator:**  
Christy Oliveri  
307 Monroe  
509.359.4126  
coliveri@ewu.edu

### **Career Opportunities**

Mechanical engineering is one of the broadest disciplines in engineering. A graduate with a BSME can expect a wide range of options. Mechanical engineers are in high demand in the bio-mechanical field, aeronautics, structural applications, energy transfer, robotics, automation, composite materials, alternative energy to name only a few. Many of our graduates have started their careers with some of the major companies around the Northwest, such as Boeing and Microsoft. Our graduates currently are employed in a wide range of geographically diverse companies in positions that vary from design engineers to upper management. A degree in Mechanical Engineering will provide innumerable choices of rewarding jobs. EWU's laboratory-intensive Mechanical Engineering program will prepare you to have a seamless transmission into the workplace, regardless of your career choice.

### **Sample Careers**

Power Engineer  
Chip Designer  
Communications Engineer

### **Program Advisor**

Terry Geyer  
319B Computing & Engineering Building  
Cheney, WA 99004  
(509) 359-6254  
tgeyer@ewu.edu



**EASTERN WASHINGTON UNIVERSITY**

■ start something **big**

# AA-DTA Degree Requirements with Suggested Classes that Fulfill EWU Prerequisites/Requirements

PIERCE COLLEGE COURSES	E.W.U. COURSE EQUIVALENT
<b>COMMUNICATION SKILLS (10 credits)</b>	
ENGL& 101 English Composition I (5)	ENGL 101 College Composition: Exposition and Argument (5)
ENGL& 102 English Composition II (5)	ENGL 201 College Composition: Analysis, Research, Document (5)
<b>QUANTITATIVE SKILLS (5 credits)</b>	
MATH& 141 Pre Calculus I (5)	MATH 141 Pre Calculus I (5)
<b>HUMANITIES (15 credits)</b>	
Consult your advisor for course options.	
<b>HUMANITIES PERFORMANCE/SKILLS (5 credits Maximum)</b>	
Consult your advisor for course options.	
<b>SOCIAL SCIENCES (15 credits)</b>	
Consult your advisor for course options.	
<b>NATURAL SCIENCES (15 credits)</b>	
MATH& 142 Pre Calculus II (5)	MATH 142 Pre Calculus II (5)
CHEM& 161 General Chemistry w/Lab I (5)	CHEM 151 General Chemistry (5)
<b>GENERAL TRANSFERABLE ELECTIVES (15 credits)</b>	
MATH& 151 Calculus I (5)	MATH 161 Calculus I (5)
MATH& 152 Calculus II (5)	MATH 162 Calculus II (5)
MATH& 153 Calculus III (5)	MATH 163 Calculus III (5)
<b>GENERAL ELECTIVES (15 credits)</b>	
MATH 205 Linear Algebra (5)	MATH 231 Linear Algebra (5)
MATH 224 Multivariate Calculus (5)	MATH 241 Calculus IV (5)

## The courses listed below transfer to satisfy EWU Graduation Requirements and can be taken before or during the major program

### Cultural Diversity (4 quarter credit minimum)

- SOC 220 Gender Roles in Society (5)
- ANTH& 210 Indians of North America (5)
- ANTH& 106 American Mosaic (5)
- ANTH& 216 Northwest Coast Indians (5)
- ANTH 240 Women in Cross-Cultural Perspective (5)
- CMST 105 Intercultural Communication (5)
- HUM 105 Black Thought and Culture (5)
- HUM 106 Ethnic Thought and Culture (5)

### International Studies (4 quarter credit minimum)

- BUS 245 Global Business (5)
- GEOG 160 World Regional Geography – the Non-Western World (5)
- HIST 260 History of Russia and the USSR (5)
- HIST 265 History of Latin America Since 1810 (5)
- HIST 270 Introduction to the Far East (5)
- HIST 280 Introduction to Chinese Civilization (5)
- HIST 287 History of Japan Since Antiquity (5)
- HUM 240 World Religions (5)
- INTS 107 Introduction to International Studies (5)
- POLS& 203 International Relations (5)
- SOC 212 Death, Dying and Bereavement (5)
- SOC& 201 Social Problems (5)

