

# Major Academic Plan (MAP)

## Associate in Arts and Science BS in Chemistry with Standard Option

Department of Chemistry and Biochemistry  
College of Science, Technology, Engineering, and Mathematics (CSTEM)

### Why study chemistry?

Chemistry is often referred to as the central science because of the way that it brings together mathematics, physics and computer science with biology, medicine, environmental science, forensic science, and earth science. It can involve either basic or applied studies in the broad areas of physical, organic, analytical, inorganic, or biochemistry. Understanding chemistry is fundamental to understanding the physical world around us.

This major program provides the normal preparation in chemistry for students planning on employment as chemists and considerable chemical background in preparation for careers outside chemistry. It is appropriate for some students who plan to enter professional schools such as dentistry or public and environmental health.

### CSTEM Coordinator:

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### Sample Careers

### Student Learning Outcomes:

- Demonstrate a knowledge of major concepts in the areas of inorganic, organic, analytical, and physical chemistry
- Demonstrate sufficient preparation in chemistry to successfully compete in a science-related career;
- Demonstrate a capacity to use modern instrumentation and classical techniques for the analysis and or separation of chemicals and an ability to interpret data;
- Demonstrate effective oral and written communication skills and critical thinking skills as related to the field of chemistry;
- Demonstrate knowledge of safe practices in the handling, usage and disposal of chemicals.



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# 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>	
CHEM& 161 General Chemistry w/Lab I (5)	CHEM 151 General Chemistry (5)
MATH& 142 Pre Calculus II (5)	MATH 142 Pre Calculus II (5)
<b>GENERAL TRANSFERABLE ELECTIVES (15 credits)</b>	
CHEM& 162 General Chemistry w/ Lab II (5)	CHEM 152 General Chemistry (5)
CHEM& 163 General Chemistry w/ Lab III (5)	CHEM 153 General Chemistry (5)
MATH& 151 Calculus I (5)	MATH 161 Calculus I (5)
<b>GENERAL ELECTIVES (15 credits)</b>	
MATH& 152 Calculus II (5)	MATH 162 Calculus II (5)
MATH& 153 Calculus III (5)	MATH 163 Calculus III (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)

