Earth Science BA/BS

The Earth Science major provides a quantitative education in Earth’s systems, including the solid earth, hydrosphere, atmosphere and biosphere. Students will gain a foundational understanding of the major features of each of these systems and the interrelations between them through lecture, laboratory and field studies. The program provides a very broad-based science education, preparing students for a wide variety of careers in the private and government sectors including the fields of environmental science, mining and petroleum industries, and resource management. It also provides an excellent foundation for students interested in continuing their education with graduate work in the sciences.

Students may also complete courses required for secondary teaching certification.

General Education Core

Written Communication
Select one of the following: 6.00
- ENGL-101 COLLEGE WRITING
- ENGL-102 and RESEARCH WRITING
- ENGL-109 COLLEGE WRITING AND RESEARCH

Oral Communication
Select one of the following: 3.00
- COMM-101 PRINCIPLES OF SPEECH
- COMM-202 INTERPERSONAL COMMUNICATION
- COMM-203 SMALL GROUP COMMUNICATION
- COMM-204 PUBLIC SPEAKING

Mathematical Ways of Knowing
MATH-170 CALCULUS I 4.00

Humanistic & Artistic Ways of Knowing
Select one of the following: 3.00
- ENGL-150 INTRODUCTION TO LITERATURE
- ENGL-257 WORLD CLASSICS
- ENGL-258 INTERNATIONAL LITERATURE
Select one of the following: 3.00
- ART-100 SURVEY OF ART
- HUM-101 THE ART AND HISTORY OF THE MOTION PICTURE
- HUM-150 INTRODUCTION TO THE ARTS
- THEA-101 SURVEY OF THE THEATER

Scientific Ways of Knowing
CHEM-111 PRINCIPLES OF CHEMISTRY I 4.00
PHYS-111 GENERAL PHYSICS I 4.00
PHYS-211 ENGINEERING PHYSICS I

Social & Behavioral Ways of Knowing
Select from two disciplines: 6.00
- ANTH-102 CULTURAL ANTHROPOLOGY
- ANTH-120 WORLD PREHISTORY
- ANTH-170 INTRODUCTION TO NATIVE AMERICAN STUDIES
- ECON-201 PRINCIPLES AND THEORY OF MACROECONOMICS
- ECON-202 PRINCIPLES AND THEORY OF MICROECONOMICS
- GEOG-102 INTRODUCTION TO GEOGRAPHY
- HIST-101 HISTORY OF CIVILIZATION
- HIST-102 HISTORY OF CIVILIZATION
- HIST-111 UNITED STATES HISTORY TO 1865
- HIST-112 UNITED STATES HISTORY SINCE 1865
- HRPT/SS-184 DIVERSITY IN ORGANIZATIONS
- HRPT/SS-185 HUMAN RELATIONS IN ORGANIZATIONS
- POLS-101 AMERICAN NATIONAL GOVERNMENT
POLS-285          COMPARATIVE GOVERNMENT  
PSYC-101          INTRODUCTION TO PSYCHOLOGY  
PSYC-205          DEVELOPMENTAL PSYCHOLOGY  
SOC-101           INTRODUCTION TO SOCIOLOGY  
SOC-102           CURRENT SOCIAL PROBLEMS  

**Diversity**  
Select one of the following:  

ANTH-102          CULTURAL ANTHROPOLOGY  
ANTH-120          WORLD PREHISTORY  
ANTH-170          INTRODUCTION TO NATIVE AMERICAN STUDIES  
ANTH-360          RACE AND ETHNICITY  
COMM-345          COMMUNICATION AND DIVERSITY  
ENGL-258          INTERNATIONAL LITERATURE  
ENGL-474          NATIVE AMERICAN WRITTEN LITERATURE  
GEOG-102          INTRODUCTION TO GEOGRAPHY  
HIST-101          HISTORY OF CIVILIZATION  
HIST-102          HISTORY OF CIVILIZATION  
HIST-111          UNITED STATES HISTORY TO 1865  
HIST-112          UNITED STATES HISTORY SINCE 1865  
HRPT/SS-184       DIVERSITY IN ORGANIZATIONS  
NP-101            ELEMENTARY NEZ PERCE LANGUAGE I  
NP-102            ELEMENTARY NEZ PERCE LANGUAGE II  
POLS-285          COMPARATIVE GOVERNMENT  
SOC-101           INTRODUCTION TO SOCIOLOGY  
SPAN-101          ELEMENTARY SPANISH I  
SPAN-102          ELEMENTARY SPANISH II  
SPAN-201          INTERMEDIATE SPANISH I  
SPAN-202          INTERMEDIATE SPANISH II  

**Integrative Seminar**  
Select one of the following:  

ID 300A - 300T (See course description for options)  
ID-301A  

**Foreign/Heritage Language**  
Take 16 credits of language if selecting Bachelor of Arts degree  

Total Credits  
39.00  

**Program Requirements**  

**Earth Science Program**  
CHEM-112          PRINCIPLES OF CHEMISTRY II  
GEOL-100          ENVIRONMENTAL EARTH SCIENCE  
GEOL-120          INTRODUCTION TO EARTH SYSTEMS  
GEOL-202          HISTORICAL GEOLOGY  
GEOL-313          EARTH MATERIALS I  
GEOL-314          EARTH MATERIALS II  
GEOL-450          EARTH SYSTEMS CAPSTONE  
GEOL-491          WORKSHOP IN GEOLOGY  
PHYS-205          DESCRIPTIVE ASTRONOMY  
PHYS-112          GENERAL PHYSICS II  
or PHYS-212        ENGINEERING PHYSICS II  

Select 8 credits of GEOL courses numbered 200 or higher  

**General Electives**
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**Summary**

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