

Earth Science AB 130 Mix and Match

Domain	CPP courses needed to fulfill
215 Subtest 1 Foundational-Level General Science	
General Science Domain 1: Scientific Practices, Engineering Design and Applications, and Crosscutting Concepts (Subtest I)	Choose one of the following: _____ SCI 2000, 2990, 4000, or 4990 (student research, or department equivalent) _____ SCI 4610 or department equivalent Senior Research _____ SCI 4620 Senior Seminar
General Science Domain 2: Physical Sciences (Subtest I)	Complete all _____ CHM 1210/L General Chemistry I & Lab _____ CHM 1220/L General Chemistry II & Lab _____ PHY 1210/L (or 1510/L) Physics of Motion, Fluids, and Heat & Lab _____ PHY 1220L (or 1520/L) Physics of Electromagnetism, Circuits, and Light & Lab
General Science Domain 3: Life Sciences (Subtest I)	Complete all _____ BIO 1210/L Foundations of Biology: Energy and Matter and Information & Lab _____ BIO 1220/L Foundations of Biology: Evolution, Ecology, and Biodiversity & Lab
General Science Domain 4: Earth and Space Sciences (Subtest I)	Complete all _____ GSC 1110/1410L Principles of Geology & Lab _____ GSC 1160 Introduction to Astronomy _____ GSC 3500 Natural Disasters
219 Earth Science specific domains (Subtest 2)	
Domain 1: Earth's Place in the Universe (Subtest II)	Complete all _____ GSC 1160 Introduction to Astronomy _____ GSC 1120/1510L Earth, Time and Life & Lab
Domain 2: Earth's Systems (Subtest II)	Complete all _____ GSC 1110/1410L Principles of Geology & Lab _____ GSC 1200 Introduction to Oceanography _____ GSC 2550L Field Methods Laboratory _____ GSC 3000/L Geochemistry & Lab

	<input type="checkbox"/> GSC 3040 Meteorology <input type="checkbox"/> GSC 3200 Studies of a Blue Planet
Domain 3: Earth and Human Activity (Subtest II)	Complete all <input type="checkbox"/> GSC 3500 Natural Disasters <input type="checkbox"/> GSC 2150/L Mineralogy & Lab <input type="checkbox"/> GSC 4010/L GIS Applications for Earth & Environmental Scientists & Lab <input type="checkbox"/> GSC 3210/L Engineering Geology I & Lab <input type="checkbox"/> GSC 3230/L Geomorphology & Lab <input type="checkbox"/> GSC 3600/L Hydrogeology & Lab

More detail about the Domains

Science: Foundational Level Science

- **General Science Domain 1: Scientific Practices, Engineering Design and Applications, and Crosscutting Concepts (Subtest I)**
 - Understand scientific practices
 - Understand engineering practices, design, and applications
 - Understand crosscutting concepts among the sciences and engineering
- **General Science Domain 2: Physical Sciences (Subtest I)**
 - Understand structure and properties of matter
 - Understand chemical reactions and biochemistry
 - Understand motion and stability: forces and interactions
 - Understand waves and their applications in technologies for information transfer
 - Understand energy
 - Understand electricity and magnetism
- **General Science Domain 3: Life Sciences (Subtest I)**
 - Understand the structure and function of cells
 - Understand growth, development, and energy flow in organisms
 - Understand ecosystems: interactions, energy, and dynamics
 - Understand heredity: inheritance and variation of traits
 - Understand biological evolution: unity and diversity
- **General Science Domain 4: Earth and Space Sciences (Subtest I)**
 - Understand Earth's place in the universe
 - Understand Earth's materials and systems and surface processes

- Understand plate tectonics and large scale system interactions
- Understand weather and climate
- Understand natural resources and natural hazards

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- **Domain 1: Earth's Place in the Universe (Subtest II)**
 - Understand the universe and its stars
 - Understand Earth and the solar system
 - Understand the history of planet Earth
- **Domain 2: Earth's Systems (Subtest II)**
 - Understand Earth's materials and systems
 - Understand plate tectonics and large-scale systems
 - Understand oceanography and the role of water in Earth's surface processes
 - Understand the atmosphere, weather, and climate
- **Domain 3: Earth and Human Activity (Subtest II)**
 - Understand natural resources
 - Understand natural hazards
 - Understand human impacts on Earth's systems
 - Understand global climate change