Earth Science AB 130 Mix and Match

Domain	CPP courses needed to fulfill
215 Subtest 1 Foundational-Level General Science	
General Science Domain 1:	Choose one of the following:
Scientific Practices, Engineering	SCI 2000, 2990, 4000, or 4990 (student research, or department equivalent)
Design and Applications, and	SCI 4610 or department equivalent Senior Research
Crosscutting Concepts (Subtest I)	SCI 4620 Senior Seminar
General Science Domain 2: Physical	Complete all
Sciences (Subtest I)	CHM 1210/L General Chemistry I & Lab
Sciences (Subtest 1)	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
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General Science Domain 3: Life	Complete all
Sciences (Subtest I)	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	Complete all
and Space Sciences (Subtest I)	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	Complete all
Universe (Subtest II)	GSC 1160 Introduction to Astronomy
	GSC 1120/1510L Earth, Time and Life & Lab
Domain 2: Earth's Systems (Subtest	Complete all
II)	GSC 1110/1410L Principles of Geology & Lab
	GSC 1200 Introduction to Oceanography
	GSC 2550L Field Methods Laboratory
	GSC 3000/L Geochemistry & Lab

	GSC 3040 Meteorology GSC 3200 Studies of a Blue Planet
Domain 3: Earth and Human	Complete all
Activity (Subtest II)	GSC 3500 Natural DisastersGSC 2150/L Mineralogy & LabGSC 4010/L GIS Applications for Earth & Environmental Scientists & LabGSC 3210/L Engineering Geology I & LabGSC 3230/L Geomorphology & LabGSC 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
 - o Understand crosscutting concepts among the sciences and engineering

• General Science Domain 2: Physical Sciences (Subtest I)

- o Understand structure and properties of matter
- o Understand chemical reactions and biochemistry
- o Understand motion and stability: forces and interactions
- o Understand waves and their applications in technologies for information transfer
- Understand energy
- o Understand electricity and magnetism

• General Science Domain 3: Life Sciences (Subtest I)

- o Understand the structure and function of cells
- Understand growth, development, and energy flow in organisms
- o Understand ecosystems: interactions, energy, and dynamics
- o Understand heredity: inheritance and variation of traits
- o Understand biological evolution: unity and diversity

• General Science Domain 4: Earth and Space Sciences (Subtest I)

- o Understand Earth's place in the universe
- o 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

Earth Science CSET 219

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