CALIFORNIA STATE UNIVERSITY
LONG BEACH
College of Education

SINGLE SUBJECT CREDENTIAL PROGRAM

Foundational Science
Subject Matter Domain Coursework

Foundational Level Science credential has four General Science domains: Scientific Practices, Engineering Design and Applications, and Crosscutting Concepts (Domain 1), Physical Sciences (Domain 2), Life Sciences (Domain 3), and Earth and Space Sciences (Domain 4). This table will be used to determine domains where candidates meet subject matter via coursework.

CSET	Domain	CSULB Biological Science Domain Courses	Accepted Coursework
Subtest I (215)	**Domain 1: Scientific Practices, Engineering Design and Applications, and Crosscutting Concepts** **1.1 Understand scientific practices** **1.2 Understand engineering practices, design, and applications** **1.3 Understand crosscutting concepts among the sciences and engineering**	**Take all the following:** ☐ CHEM 111A: General Chemistry (5) ☐ CHEM 111B: General Chemistry (5) ☐ GEOL 106: Earth Science for Teachers (4) ☐ PHYS 100A: General Physics (4) ☐ SCED 403: Integrated Science (3) ☐ SCED 404: Nature of Science (3)	
	Domain 2: Physical Sciences **2.1 Understand structure and properties of matter** **2.2 Understand chemical reactions and biochemistry** **2.3 Understand motion and stability: forces and interactions** **2.4 Understand waves and their applications in technologies for information transfer** **2.5 Understand energy** **2.6 Understand electricity and magnetism**	**Take all the following:** ☐ BIOL 212: Intro to Cell and Molecular Biology (4) ☐ CHEM 111A: General Chemistry (5) ☐ CHEM 111B: General Chemistry (5) ☐ PHYS 100A: General Physics (4) ☐ PHYS 100B: General Physics (4)	
	Domain 3: Life Sciences **3.1 Understand the structure and function of cells** **3.2 Understand growth, development, and energy flow in organisms** **3.3 Understand ecosystems: interactions, energy, and dynamics** **3.4 Understand heredity: inheritance and variation of traits** **3.5 Understand biological evolution: unity and diversity**	**Take all the following:** ☐ CHEM 111A: General Chemistry (5) ☐ BIOL 211: Intro to Evo and Diversity (5) ☐ BIOL 212: Intro to Cell and Molecular Biology (4) ☐ BIOL 213 Intro to Eco and Physiology (4)	
	Domain 4: Earth and Space Sciences **4.1 Understand Earth's place in the universe** **4.2 Understand Earth's materials and systems and surface processes** **4.3 Understand plate tectonics and large-scale system interactions** **4.4 Understand weather and climate** **4.5 Understand natural resources and natural hazards**	**Take all the following:** ☐ ASTR 100: Astronomy (3) ☐ CHEM 111A: General Chemistry (5) ☐ CHEM 111B: General Chemistry (5) ☐ GEOL 106: Earth Science for Teachers (4) ☐ GEOL 300: Earth Systems (3)	

*Students must receive a "C" or better to receive subject matter credit; in EDSS 300C, students must receive a "B" or better.