

SUBJECT MATTER PROGRAM (FOUNDATIONAL LEVEL GENERAL SCIENCE)

PHYS 11A	General Physics: Mechanics
& PHYS 11B	General Physics: Heat, Light, Sound, Modern
& PHYS 11C	Physics
	General Physics: Electricity and Magnetism (and) 1

Total Units **34-44**

¹ Course also satisfies General Education (GE)/Graduation Requirement.

The Science Subject Matter Program in foundational level general science is designed to meet the California Commission on Teacher Credentialing (CTC) subject matter requirement for students to enter a California Single Subject teaching credential program. Meeting the subject matter requirement is a credential program admission requirement, and can be met either through a subject matter program (such as those described below) or by taking a state approved content exam (currently the California Subject Exam for Teachers, the CSET). In order to meet the subject matter obtain a California K-12 Teaching Credential, a program requirement, all courses must be completed with a grade of "C-" or better. In order to teach public school in California, you must also complete a teaching credential program.

Subject matter programs are not degrees or concentrations; instead they are a series of courses that allow a student to meet the requirements for admission to a teaching credential program. Students must also complete a BA or BS degree (with any major) to fulfill the credential requirements.

The foundational science subject matter program is typically an entry-level credential. It is important for students obtaining the foundational science credential to see a faculty advisor or the department chair in the department of their academic major or the success center in the College of Education for feedback on the potential career paths for this credential. It is recommended that they do so early as it is critical that their science coursework be carefully planned and coordinated to include the required subject matter program courses. In addition, students are encouraged to become involved with education related activities like grading, assisting in labs, tutoring K-12 students, and visiting schools; please speak with the subject matter advisors in your area for more information.

Program Requirements

Code	Title	Units
ASTR 4A	Introduction to the Solar System	3
ASTR 4B	Introduction to Stars, Galaxies, and Cosmology ¹	3
BIO 1	Biodiversity, Evolution and Ecology	4 -
& BIO 2	Cells, Molecules and Genes ¹	10
or BIO 10	Basic Biological Concepts	
& BIO 15L	Laboratory Investigations in Biology	
CHEM 1A	General Chemistry I ¹	5
CHEM 1B	General Chemistry II	5
ENVS 10	Introduction to Environmental Science ¹	3
GEOL 10	Physical Geology ¹	3
Select one of the following series:		8 -
		12
PHYS 5A	General Physics: Mechanics, Heat, Sound	
& PHYS 5B	General Physics: Light, Electricity and Magnetism, Modern Physics ¹	