

**CALIFORNIA STATE UNIVERSITY, LOS ANGELES**  
California Subject Examinations for Teachers (CSET) Waiver Program  
Course requirements for Physics

Our campus has a state-approved waiver program for the Single Subject Science credential, and the waiver program is an alternative to the CSET exams for verifying subject matter knowledge. Students complete the courses in the waiver program with a “C” grade or better, and then the campus completes paperwork that is sent to the CTC for their records.

Our waiver program consists of one year each of first-year biology, chemistry, geology, and physics plus one course in astronomy with lab; calculus; and upper division science courses in one area.

Required core courses for all areas:

- ASTR 1510 - Principles of Astronomy (2)
- ASTR 1520 - Principles of Astronomy: Laboratory (1)
- BIOL 1100 - Principles of Biology I (5)
- BIOL 1200 - Principles of Biology II (5)
- CHEM 1100 - General Chemistry I (5)
- CHEM 1110 - General Chemistry II (5)
- GEOL 1500 - Earth Revealed (3)
- GEOL 1550 - Oceanography (3)
- GEOL 2520 - Historical Geology (4)
- MATH 2110 - Calculus I (4)
- MATH 2120 - Calculus II (4)
- \* PHYS 2100 - General Physics I: Mechanics (5)
- \* PHYS 2200 - General Physics II: Electromagnetism and Circuits (5)
- NATS 4950 - Natural Science Field Studies (3) or equivalent research type course

\*Teachers in Physics area need to take calculus-based physics (PHYS 2100 and 2200)

Other courses required for Physics area:

- MATH 2130 - Calculus III (3)
- PHYS 3400 – Modern Physics and Thermodynamics (4)
- Additional 15 units of upper division electives in PHYS, MATH, or NATS courses (must include one PHYS lab course, maximum of two MATH courses)