

# PHYSICS

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A branch of the physical sciences, physics is the study of energy, space, matter, the interactions between matter and the laws which govern these interactions. Physicists consider themselves the most fundamental of scientists, for they are the ones who examine the basic laws of nature. They seek to study and understand what happens when atoms and subatomic particles break down and assemble, how they react to collisions with each other and to electromagnetic radiation. Physicists use mathematics to understand, explain and predict their theories and equations. They often apply their predictions and theories to other fields -chemistry, biology, geophysics, engineering, communication, transportation, electronics and health. This curriculum may also academically prepare the student to transfer to a 4-year university to complete a Baccalaureate degree program. It is highly recommended that students who wish to transfer may want to consult their counselor to help them determine the best course of action for their goals. **Important:** To obtain the Associate in Science Degree in Physics, students must complete the following requirements with a minimum grade point average (GPA) of 2.0:

- The Physics major requirements below.
- The College of the Siskiyous General Education pattern (COSGE) requirements.
- Any needed electives to reach a total of 60 COS degree applicable units.
- All major courses and any courses noted on the COS check sheet must be completed with a C or better.

## Requirements for the Major

- Complete the following: ----- 31.5 units
  - CHEM 2000- General Chemistry I (5)
  - CHEM 2100- General Chemistry II (5)
  - MATH 1400- Calculus and Analytic Geometry I (4)
  - MATH 1500- Calculus and Analytic Geometry II (4)
  - PHYS 2105- Mechanical Physics, Oscillations and Waves (4.5)
  - PHYS 2110- Electrical Physics, Light (4.5)
  - PHYS 2115- Heat, Modern, and Quantum Physics (4.5)

**Total Units** ----- **31.5**