

PHYSICS (AS-T)

ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)

Upon successful completion of Cerritos College's Associate in Science in Physics for Transfer degree, students will demonstrate breadth and depth of understanding of physics. The degree is intended for students who are interested in the field of physics and are planning on transferring to a CSU and majoring in physics, astronomy, or one of many engineering specialties.

Physics graduates with their bachelor's degrees qualify for graduate studies in physics, engineering, medical physics, geophysics, and astronomy. Physicists find rewarding careers in teaching, medicine, and industrial and governmental scientific endeavors

Program Student Learning Outcomes

- Demonstrate understanding of units and dimensions in physics problems
- Demonstrate the use of mathematical and problem solving techniques to solve physics problems
- Demonstrate the ability to analyze a problem or experimental data in terms of related physical concepts
- Demonstrate the ability to obtain real-world experimental data and present it in a correct format, including significant figures and units.
- Demonstrate the ability to solve physical non-analytic problems using numerical methods.

Program Requirements

Code Number	Course Title	Units
Common Lower-Division Requirements		
PHYS 201	Engineering Physics	4.0
PHYS 202	Engineering Physics	4.0
PHYS 203	Engineering Physics	4.0
MATH 170	Analytic Geometry and Calculus I	4.0
MATH 190	Analytic Geometry and Calculus II	4.0
MATH 225	Calculus III	5.0
Total Units		25

ASSOCIATE IN SCIENCE FOR TRANSFER DEGREE REQUIREMENTS

- Completion of 60 semester units or 90 quarter units of degree-applicable courses,
- Minimum overall grade point average of 2.0,
- Minimum grade of "C" (or "P") for each course in the major, and
- Completion of IGETC and/or CSU GE-Breadth.