

DEGREES & CERTIFICATES

PHYSICS ASSOCIATE OF SCIENCE (AS)

About the Program

The Associate of Science in Physics is designed to prepare students for to transfer ready for upper division work towards a bachelor's degree in Physics, Applied Physics, and related fields such as Astronomy and Astrophysics. The study of Physics encompasses a wide variety of disciplines and specializations, ranging from technology-driven fields to the study of the fundamental laws and structure of the universe.

Program Goals and Objectives

The Associate of Science in Physics is designed to prepare students for to transfer ready for upper division work towards a bachelor's degree in Physics, Applied Physics, and related fields such as Astronomy and Astrophysics.

Career Opportunities

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Program Outcomes

- Upon completion of an AS in Physics, students are able to analyze physical situations quantitatively using fundamental physics principles, ranging from Newtonian mechanics to modern physics.
- Upon completion of an AS in Physics, students are able to design and conduct laboratory experiments, and analyze and interpret their data.
- Upon completion of an AS in Physics, students are able to effectively communicate the methods, analysis, results, and conclusions of their own scientific experiments.

Required Core: (36.5 units)

MATH 1 Calculus I.....	5
MATH 2 Calculus II.....	5
MATH 3 Multivariable Calculus.....	5
MATH 5 Ordinary Differential Equations.....	3.5
PHYS 1A General Physics I.....	5
PHYS 1B General Physics II.....	5
PHYS 1C General Physics III.....	5
PHYS 1D General Physics IV.....	3

Total Units in the Major.....36.5

Program-Based General Education Requirement: (3.5 units)

MATH 7 Elementary Linear Algebra.....	3.5
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General Education and Electives..... 20