

# PHYSICS



**Pathway: Applied Sciences**  
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Award Title	Academic Plan	Award Type	GE Area	Required Course Units	Major Elective Units	Major Units
Physics	T036300H	A.S.T.	IGETC only	30	-	30
This program is Financial Aid Eligible.						

## PROGRAM OVERVIEW

The Associate in Science Transfer Degree in Physics provides students with a core curriculum that will prepare them with the knowledge and skills required to transfer and earn a Baccalaureate degree in Physics (or a similar major) at a California State University (CSU). Students will develop strong mathematical, analytical, and laboratory skills, and a solid understanding of the fundamental physical laws that govern the universe. This degree certifies a students' ability to analyze and solve problems in the field of physics and other fields where expertise in physics is required. The coursework to complete this degree will also satisfy the lower division requirements for a variety of Baccalaureate degrees including, Engineering, Chemistry, Mathematics, and Computer Science.

The Associate in Science in Physics for Transfer will be awarded upon completion of 60 transferable semester units to the California State University, including the following:

- Completion of the Intersegmental General Education Transfer Curriculum (IGETC) or the California State University General Education – Breadth Requirements.
- A minimum of 18 semester units required for the major.
- All courses in the major must be completed with a grade of "C" or better or a "P" if the course is taken on a "Pass-No Pass" basis (Title 5 § 55063).

## PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree program, students are able to:

- Collect data accurately and safely by performing precise, quantitative measurements using proper techniques and modern instrumentation.
- Use data obtained from lab equipment to construct graphs, and judge the accuracy and precision of results.
- Apply basic physics laws such as Newton's three laws of motion and the three laws of thermodynamics in problem solving. 4. Use algebra through multivariable calculus to set up and solve equations related to mechanics, electromagnetism, waves, optics and modern physics, demonstrating analytical and critical thinking skills.

## PHYSICS

### Associate in Science Transfer Degree Major Units: 30

Requirements for the Associate in Science Transfer Degree in Physics may be met by completing 30 units of Required Courses with a grade of "C" or better along with IGETC General Education units. Information on the IGETC General Education unit requirements may be found in the catalog under Graduation Requirements.

### REQUIRED COURSES

### UNITS

Course Number	Course Title	Units
PHYSICS 101	Physics For Engineers and Scientists I	5
PHYSICS 102	Physics For Engineers and Scientists II	5
PHYSICS 103	Physics For Engineers and Scientists III	5
MATH 265	Calculus with Analytic Geometry I	5
MATH 266	Calculus with Analytic Geometry II	5
MATH 267	Calculus with Analytic Geometry III	5

**TRANSFER**—Students interested in transferring to a four-year college or university should visit the University Transfer Center or meet with a counselor to select appropriate transferable courses.

## USEFUL LATTC LINKS:

**College Catalog:** <http://college.lattc.edu/catalog/>  
**Financial Aid Office:** <http://college.lattc.edu/financialaid/>  
**Counseling Department:** <http://college.lattc.edu/counseling/>  
**General Education Information:** <http://college.lattc.edu/catalog>  
**University Transfer Center:** <http://college.lattc.edu/utc/>  
**Applied Sciences Pathway:** <http://pathways.lattc.edu/catalog-programs/as/>

To register: <http://college.lattc.edu/student/new-students/register-now/>

For additional information consult a LATTc college counselor.