

PHYSICS (AST.PHY)

ASSOCIATE IN SCIENCE FOR TRANSFER

Program Outcomes: Upon successful completion of this program a student will be able to:

- apply fundamental physics laws, principles and widely accepted theories.
- demonstrate proficiency in solving problems that are appropriate to first-year-university students of calculus-level physics courses.
- collect and analyze data effectively using basic laboratory equipment, and present results and conclusions in formally structured laboratory reports.

Required Major Courses (24 units)

<input type="checkbox"/> PHY-4A – General Physics I/Mechanics	4.0
<input type="checkbox"/> PHY-4B – General Physics II/Electricity and Magnetism	4.0
<input type="checkbox"/> PHY-4C – General Physics III/Waves, Heat, Light, Sound and Modern Physics	4.0
<input type="checkbox"/> MAT-3A – Analytic Geometry and Calculus I	4.0
<input type="checkbox"/> MAT-3B – Analytic Geometry and Calculus II	4.0
<input type="checkbox"/> MAT-3C – Analytic Geometry and Calculus III	4.0

Major Electives (None Required)

<input type="checkbox"/> CHM-1A – General Chemistry I	5.0
<input type="checkbox"/> CHM-1B – General Chemistry II	5.0
<input type="checkbox"/> CSS-4 – Introduction to Scientific Programming	4.0
<input type="checkbox"/> MAT-4 – Linear Algebra	3.0
<input type="checkbox"/> MAT-5 – Differential Equations	3.0

SUBTOTAL: 24 UNITS

General Education – Required Courses

Students must complete one of the following General Education Plans:

CSU-GE (see page 70) 39 units

IGETC (see page 72) 37 units

Students can double-count required courses and courses for General Education

■ Electives (Courses Numbered 1-99) required when degree units plus GE units total fewer than 60.

TOTAL: 60 UNITS



**A Degree With A
Guarantee.com**
*Associate Degree
for Transfer*

In order to earn this degree, students must complete the Associate Degree for Transfer Requirements:

1. Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - a. The Intersegmental General Education Transfer Curriculum (IGETC) or the California State University GE – Breadth Requirements (CSU GE-Breadth).
 - b. A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district.
2. Obtainment of a minimum grade point average of 2.0

ADTs include (AA-T) and (AS-T) degrees. The law authorizing these degrees also requires that students must earn a “C” or better in all courses required for the major or area of emphasis. A “P” (Pass) grade is also an acceptable grade for courses in the major if the course is taken on a Pass/No Pass basis.