

## PROGRAM OF STUDY

### Physics Associate in Science for Transfer (AS-T)

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an "associate degree for transfer", a newly established variation of the associate degrees traditionally offered at a California community college. The Associate in Arts for Transfer (AA-T) or the Associate in Science for Transfer (AS-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (AA-T or AS-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn one of these degrees, students must complete:

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 General Education – Breadth Requirements.
  - 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.

Associate Degrees for Transfer also require that students must earn a C or better in all courses required for the major or area of emphasis.

This degree may not be the best option for students intending to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements. At the time of catalog publication, a student may earn an AS-T in Physics. Additional majors are being developed. Please see a counselor or visit <http://www.canyons.edu> for more information.

#### **Student Learning Outcome:**

- Reason conceptually and logically about physical phenomena using scientific models involving the fundamental physics principles of kinematics, kinetics, energy conservation, electromagnetism, thermodynamics, optics, and modern physics.
- Utilize appropriate instruments to measure and examine examples of physics phenomena and relate the results of experimental data to the concepts discussed in the lecture portion of the class.

#### **Program Requirements:**

		<b>Units</b>
PHYSIC 220	Physics for Scientists and Engineers: Mechanics of Solids and Fluids	4 - 0
PHYSIC 221	Physics for Scientists and Engineers: Electricity & Magnetism	4 - 0
PHYSIC 222	Physics for Scientist & Engineers: Wave Motion, Heat, Optics & Modern Physics	4 - 0
MATH 211	Calculus I	5 - 0
MATH 212	Calculus II	5 - 0
MATH 213	Calculus III	5 - 0

*Major Codes: 5400.PHYSICS.AS or 5410 PHYSICS.AS*

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**Total Units****27**

PID 146