

Glendale Community College
Associate in Science in Physics for Transfer (AS-T)

Criteria A. Appropriateness to Mission

1. Statement of Program Goals and Objectives

Associate in Science in Physics for Transfer (AS-T) will prepare students for transfer to the CSU in Physics or similar major.

The goal of the program is to help students better understand the physical world and the analysis of it through mathematical techniques using qualitative and quantitative reasoning. The coursework prepares students to think critically and apply reasoning skills to analyze real world situations. Students will be able to successfully transfer to any institution of higher learning armed with the foundation needed to pursue a baccalaureate degree in Physics and will be prepared for careers as physicists in fields such as research, industry and education. Students will complete a comprehensive curriculum to meet degree, transfer, and personal growth needs. This degree will emphasize mathematical modeling, reasoning and critical thinking skills. In addition, it will guarantee transfer to a California State University in the Physics major (or a similar or equivalent program).

Upon completion of the degree, students will be able to:

- Apply appropriate physical laws and mathematical techniques to analyze various physical situations
- Perform various scientific experiments and to analyze data to check agreement with theoretical predictions. Students will be prepared to pursue further study in physics or a similar major at the baccalaureate level at the California State University. This degree complies with the Transfer Model Curriculum.

2. Catalog Description

The Associate in Science in Physics for Transfer degree provides a foundation in physics and mathematics for students planning to transfer into a baccalaureate program in physics or physics education. Successful completion of the transfer degree in Physics guarantees the student acceptance to a California State University to pursue a baccalaureate degree in Physics or a related field.

The following is required for all AA-T or AS-T degrees (per SB1440):

1. Minimum of 60 CSU-transferable semester units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA. Please consult with a counselor for more information.

3. Completion of a minimum of 18 semester units in an “AA-T” or “AS-T” major as detailed in the program section of the college catalog. 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).
4. Certified completion of the California State University General Education-Breadth pattern (CSU GE Breadth); OR the Inter segmental General Education Transfer Curriculum (IGETC) pattern.