

Physics Associate in Science Degree for Transfer

The Associate in Science in Physics for Transfer, also called the Physics AS-T Degree, prepares students to transfer to four-year universities that offer bachelor's degrees in physics. A student earning the Physics AS-T Degree will be granted priority for admission as a physics major to a local CSU, as determined by the CSU campus to which the student applies. This degree requires students to complete 60 CSU-transferable units including completion of CSU GE or IGETC, 12 units in physics, and 16 units in mathematics with a cumulative GPA of 2.0 or better. Title 5 requires that students earn a grade of "C" or better in all major coursework. There are no additional graduation requirements. The main purpose of an AS-T degree in physics is to provide the lower-division coursework needed in order to continue in a bachelor's-degree program; however, the AS-T also provides valuable quantitative and problem-solving skills that are in demand by employers hiring, e.g., lab technicians, or in a variety of fields such as manufacturing and education. Of people who obtain a terminal bachelor's degree in physics, about half work in industry, in fields such as aerospace, military, software, and electronics. Most of the other half work either as high school teachers or as lab technicians at universities or government-funded laboratories. PhD's in physics are qualified for teaching at the university level and for scientific research, as well as for higher-level jobs in the same areas as those with bachelor's degrees. The Physics AS-T Degree requires a total of 28 units of required courses as indicated below.

Required Courses	Units
PHYS 221 F General Physics I	4
PHYS 222 F General Physics II	4
PHYS 223 F General Physics III	4
MATH 150AF Calculus I	4
MATH 150BF Calculus II	4
MATH 250AF Multivariable Calculus	4
MATH 250BF Linear Algebra and Differential Equations	4
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Total Units	28