



Associate Degree for TransferSM

PHYSICS 2.0 FOR TRANSFER (AS-T)



Physics 2.0 for Transfer (AS-T) explores the laws that govern matter, motion, and energy. Students gain a solid foundation in calculus-based physics, mathematics, and programming, preparing them to transfer to a CSU or UC to pursue a bachelor's degree in physics, engineering, or related fields.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; see Degree Requirements and Transfer Information (<https://catalog.gcccd.edu/cuyamaca/degree-requirements-transfer-information/>) section for more information.

Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Draw scientific conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Career Opportunities

Graduates are prepared to pursue upper-division studies leading to careers in physics, astronomy, engineering, computer science, education, and research industries that rely on quantitative and analytical skills.

Associate in Science Degree Requirements

Code	Title	Units
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
MATH-284	Linear Algebra	3
MATH-285	Differential Equations	3
PHYC-201	Mechanics and Waves	5
PHYC-202	Electricity, Magnetism, and Heat	5
PHYC-203	Light, Optics, and Modern Physics	5
CS-181	Introduction to C++ Programming	4

or CS-182 Introduction to Java Programming

Units for the Major	38
Double-Counted Units	7
Plus General Education Requirements (Cal-GETC) (https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/)	34
Total Transferable Elective Units	0
Total Units	65

Please note: San Diego State University (SDSU) and most CSU campuses accept this degree for students transferring into the B.S. Physics (General) or B.S. Physics (Modern Optics Emphasis) programs.

This new Physics 2.0 ADT aligns with statewide updates requiring Differential Equations, Linear Algebra, and an Introductory Programming course, ensuring full articulation to CSU and UC physics majors.