

CHEMISTRY ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER

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PROGRAM CODE: 2S36798

The **Chemistry Associate in Science Degree for Transfer**, also called the Chemistry AS-T Degree, prepares students to transfer to CSU campuses that offer bachelor's degrees in chemistry. Ed Code Section 66746-66749 states students earning the Chemistry AS-T degree will be granted priority for admission as a Chemistry major to a local CSU, as determined by the CSU campus to which the student applies. The Chemistry AS-T introduces students to general and organic chemistry, preparing students for further study in the discipline of chemistry. Coursework includes instruction in molecular-level interpretations regarding the properties and reactions of inorganic and organic substances. Students with a degree in chemistry may pursue careers in government agencies or various areas of industry, including environmental, pharmaceutical, and material chemistry. The Chemistry AS-T Degree requires a total of 36 units of required courses as indicated below. The following is required for all AA-T or AS-T degrees, and there are no additional graduation 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 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. (3) ADTs also require that students must earn a C or better in all courses required for the major or area of emphasis. A "P" (Pass) grade is an acceptable grade for courses in the major only if the P is defined to be equivalent to a C or better.

Code	Title	Units
Required Core (36 units):		36
CHEM 111AF	General Chemistry I	5
CHEM 111BF	General Chemistry II	5
CHEM 211AF	Organic Chemistry I	5
CHEM 211BF	Organic Chemistry II	5
PHYS 221 F	General Physics I	4
PHYS 222 F	General Physics II	4
MATH 151 F	Calculus I (formerly MATH 150AF) or MATH 151HF Honors Calculus I (formerly MATH 150HF)	4
MATH 152 F	Calculus II (formerly MATH 150BF) or MATH 152HF Honors Calculus II	4
Total Units		36

Outcome 1: Demonstrate knowledge of inorganic and organic chemistry and have the ability to articulate this chemical knowledge in verbal, written, and/or computational form.

Outcome 2: Demonstrate the ability to conduct experiments, analyze data, and interpret results, while observing responsible and ethical scientific conduct.

Outcome 3: Demonstrate the use of proper procedures and regulations for safe handling and use of chemicals.