



The Associate Degree for transfer in Chemistry is designed to provide a clear pathway to a CSU major and baccalaureate degree. California Community College students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses. Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the 120-unit baccalaureate degree within 60 semester or 90 quarter units. To view the most current list of Riverside City College Associate Degrees for Transfer and to find out which CSU campuses accept each degree, please go to: www.calstate.edu/transfer/adt-search/search.shtml. Students are encouraged to meet with a Riverside City College counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

**2023-2024
CHEMISTRY
IGETC
AS769**

Associate in Science in Chemistry for Transfer Degree

The Associate in Science in Chemistry for Transfer Degree (AS-T in Chemistry) introduces the concepts and principles upon which chemical knowledge is based, including chemical structures and nomenclature, stoichiometry and solving of chemical equations, the thermodynamics of chemical reactions, and theories of chemical bonding. Students will develop skills for critical/analytical thinking, perceptive reading/observation and interpretation. The Associate in Science in Chemistry to Transfer degree provides students with a core curriculum that will prepare them with the knowledge and skills required to earn a baccalaureate degree in chemistry.

- Be able to identify and explain fundamental biological concepts and principles on the molecular, cellular, organismal, population, ecological, environmental and evolutionary levels.
- Apply knowledge of biological concepts to formulate questions and hypotheses for research and demonstrate ability to find, read, understand, and critically evaluate scientific papers.
- Develop experimental skills and techniques used in laboratory and field research and use the scientific method to develop hypotheses, design and execute experiments.

| Required Courses (26 units) | Units |
|-------------------------------------------------------------------|-------|
| CHE-1A* /CHE 1AH* General Chemistry I/Honors General Chemistry I | 5 |
| CHE-1B*/CHE 1BH* General Chemistry II/Honors General Chemistry II | 5 |
| CHE-12A* Organic Chemistry I | 5 |
| CHE-12B* Organic Chemistry II | 5 |
| MAT-1A* Calculus I | 4 |
| MAT 1B* Calculus II | 4 |
| PHY-4A* Mechanics | 4 |
| PHY-4B* Electricity and Magnetism | 4 |

*Courses may also be used to fulfill general education requirements for the CSUGE for STEM or IGETC for STEM pattern; please confer with a counselor.

Associate in Science for Transfer Degree

Associate in Science for Transfer Degree The Associate in Science in Chemistry for Transfer degree will be awarded upon completion of 60 California State University (CSU) transferable units including the above major requirements and the Intersegmental General Education Transfer Curriculum (IGETC) for STEM pattern with a minimum grade point average of 2.0. All courses in the major must be completed with a grade of "C" or better.

Total Units: 36

See attached IGETC for STEM Document