



California Community Colleges are now offering Associate Degrees for Transfer (ADT's) to the CSU. These may include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are 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 Norco 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](http://www.calstate.edu/transfer/adt-search/search.shtml)

Students are encouraged to meet with a Norco 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 for STEM) NAS769**

The Associate in Science in Chemistry for Transfer Degree 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 for 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.

Required Courses (36 units)		Units
CHE-1A*	General Chemistry I	5
CHE-1B*	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 IGETC for STEM pattern, please confer with a counselor.

**Associate in Science for Transfer Degree**

The Associate in Science in Chemistry for Transfer degree will be awarded upon completion of 60 CSU-transferable semester 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 "P") or better.

## **IGETC for STEM**

Students pursuing certain Associate Degrees for Transfer may be eligible to complete IGETC for STEM, deferring two to three lower-division GE courses until after transfer. IGETC for STEM is applicable only to majors in which the Transfer Model Curriculum explicitly indicates the availability of the option. **At Norco College, currently only ADT's in Biology, Chemistry, and Environmental Science allow IGETC for STEM.**

**"IGETC for STEM" certification as part of an Associate Degree for Transfer in Chemistry would require:**

**Complete the following courses *before* transfer:**

- All courses in Areas 1, 2, 5, and 7 of the traditional IGETC; and
- One course in Area 3A; one course in Area 3B; and one course in Area 4 (the second area 4 course will eventually need to be from a different discipline).

**Complete the following courses *after* transfer:**

- One remaining lower-division general education course in Area 3;\*
- One remaining lower-division general education course in Area 4 (in a different discipline from the first area 4 course);\* and
- One course in Area 6 for UC-bound students who have not satisfied it through proficiency.\*

\*These deferred lower division courses must be replaced with calculus and/or science courses required by the major before transfer.

***Please consult with a Norco College counselor to discuss which general education pattern is the best option for you based on your individual major, goals, and transfer institution.***