



### **Associate in Science in Chemistry for Transfer**

The Associate in Science in Chemistry for Transfer (A.S.-T in Chemistry) prepares students to transfer into the CSU system leading to a Baccalaureate degree in Chemistry. Students with this degree also have a foundation in science to pursue other science-related fields or engineering. Successful completion of the A.S.-T in Chemistry degree also provides guaranteed admission with junior status to the CSU system, along with priority admission to a local CSU in a similar major. Students earning a Chemistry A.S.-T. must select IGETC for STEM to complete the general education requirement.\* Upon completion of the A.S.-T in Chemistry degree, students will gain a foundation in general and organic chemistry which is necessary in many fields of science and engineering.

#### **Required Core:**

<b><u>Courses</u></b>	<b><u>Units</u></b>
Chemistry 219, General Chemistry	
—OR—	5
Chemistry 219H, Honors General Chemistry	
Chemistry 229, General Chemistry and Qualitative Analysis	5
Chemistry 249, Organic Chemistry I	5
Chemistry 259, Organic Chemistry II	5
Mathematics 180, Analytical Geometry and Calculus	
—OR—	4
Mathematics 180H, Honors Analytical Geometry and Calculus	
Mathematics 185, Analytic Geometry and Calculus	4
Physics 217, Engineering Physics I	4
Physics 227, Engineering Physics II	4
	<b>Total 36</b>

\* Note: Only IGETC for STEM will be accepted toward completion of the general education portion of this degree. CSU-GE for STEM, CSU-GE, and IGETC will not be accepted. (For those planning to meet the CSU admission requirement an oral communication course, IGETC area IC, must be included.)



California community colleges are now offering Associate Degrees for Transfer (ADT) 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.

Santa Ana College offers numerous AA-T and AS-T degrees. To find out which CSU campuses accept each degree, please meet with a SAC counselor. You can also find this information at: [www.calstate.edu/transfer/adt-search/search.shtml](http://www.calstate.edu/transfer/adt-search/search.shtml). **An A.A.-T or A.S.-T degree may not be the best option for students intending to transfer to a particular CSU campus, or to a university or college that is not part of the CSU system.** Current and prospective community college students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

**\*Please consult a counselor regarding specific course requirements for your transfer institution.**



## Requirements

Student completion requirements for the associate degree for transfer:

- 1.) 60 semester or 90 quarter CSU transferable units. At least 12 of the units must be earned at Santa Ana College.
- 2.) The California State University General Education-Breadth pattern (CSU GE Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern. (Students pursuing an ADT in Biology or Chemistry, currently under development, have the option of using CSU General Education for STEM or IGETC for STEM. Please see a counselor for more information).
- 3.) A minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district (see Instructional Programs portion of the catalog).
- 4.) Obtainment of a minimum grade point average (GPA) of 2.0.
- 5.) Earn a grade of C or better in all courses required for the major or area of emphasis.

**Santa Ana College currently offers the following Associate in Arts and Associate in Science for Transfer degrees:**

Administration of Justice  
 Anthropology  
 Art History  
 Business Administration Communication  
 Studies Computer Science  
 Early Childhood Education Elementary Teacher  
 Education English  
 Geography  
 Geology  
 History  
 Journalism  
 Kinesiology  
 Mathematics  
 Music  
 Philosophy  
 Physics  
 Political Science  
 Psychology  
 Sociology Spanish  
 Studio Arts  
 Theatre Arts

See the Instructional Programs Section of this catalog for major requirements. Additional degrees were pending approval from the California Community College Chancellor's Office at the time of catalog publication.

## Course Substitutions and Reciprocity, Policy and Procedures

Students who have completed courses at another California community college, a regionally accredited institution and/or completed an external exam such as AP, CLEP, or IB may apply the coursework or exam results toward AA-T/AS-T major requirements as follows:

- 1.) A course with a C-ID designation which is completed at another California community college will be substituted for a SAC course that meets an Associate Degree for Transfer (ADT) major requirement designated with the same C-ID number SAC departmental approval is not required.
- 2.) A course without a C-ID designation which is completed at a regionally accredited institution, other than a California community college, will be reviewed by SAC discipline faculty. Course-to-course substitution will be granted based on discipline faculty determination of comparability to a SAC course with the approved C-ID designation for the given ADT. Course-to-course substitution will be granted in accordance with the statewide C-ID descriptor when the SAC course does not have an approved C-ID designation, but a statewide C-ID descriptor exists. When no such descriptor exists, course substitution will be based on discipline faculty determination of comparability to a SAC course included on the ADT.
- 3.) Students who have completed an external examination such as AP, CLEP, and IB are granted course credit toward ADT major requirements as listed in the SAC catalog (Students should be aware that AP credit may be awarded/counted differently by the transfer institution).
- 4.) A course completed at another California community college that is approved as part of an associate degree for transfer will be applied to the corresponding Santa Ana College Associate Degree for Transfer (ADT) in the corresponding SAC ADT area. Courses completed at other California community colleges must be part of the ADT at the time the student completed the course. Courses completed at other CCC's prior to ADT approval will be "grandfathered".