



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.**

## 2017-2018

### BIOLOGY

**(CSUGE for STEM) NAS767**

The Associate in Science in Biology for Transfer Degree introduces the concepts and principles upon which biologic knowledge is based including the biochemistry, structure and function, ecology and evolution of organisms, from the levels of cells through the biosphere. Students will develop skills for critical/analytical thinking, perceptive reading/observation and interpretation. The Associate in Science in Biology 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 biology. The intent of this degree is to assist students in seamlessly transferring to a California State University.

#### Required Courses (32 units) Units

BIO-11*	Introduction to Molecular and Cellular Biology	5
BIO-12*	Introduction to Organismal and Population Biology	5
CHE-1A*	General Chemistry I	5
CHE-1B*	General Chemistry II	5
MAT-1A*	Calculus I	4
Complete one Physics sequence as shown below:		
PHY-2A*	General Physics I	4
AND		
PHY-2B*	General Physics II	4
OR		
PHY-4A*	Mechanics	4
AND		
PHY-4B*	Electricity and Magnetism	4

\*Courses may also be used to fulfill general education requirements for the CSU GE for STEM or IGETC for STEM pattern, please confer with a counselor.

Course	Units
ENGL 1A	4.0
MAT 1A	4.0
CHEM 1A	5.0
AREA E	3.0

Total Units: 16.0

Course	Units
AREA A3	3.0
MAT 1B	4.0
CHEM 1B	5.0
POL 1	3.0

Total Units: 15.0

Course	Units
AREA A1	3.0
BIO 11	5.0
ELECTIVE GROUP/LIST A	4.0
AREA C1	3.0

Total Units: 15.0

Course	Units
ELECTIVE GROUP/LIST A	4.0
BIO 12	5.0
HIS 6/7/14/31/34	3.0
AREA D	3.0

Total Units: 15.0

Suggested Pathway for Biology ADT

#### Associate in Science for Transfer Degree

The Associate in Science in Biology for Transfer degree will be awarded upon completion of 60 CSU-transferable semester units including the above major requirements and the California State University-General Education-Breadth (CSU GE-Breadth) for STEM pattern or 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.

See your counselor for **YOUR** plan!

## **CSU GE for STEM**

Students pursuing certain Associate Degrees for Transfer may be eligible to complete CSU GE for STEM, deferring two lower-division GE courses until after transfer. CSU GE 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 the ADT in Biology allows CSU GE for STEM.**

**"CSU GE Breadth for STEM" certification as part of an Associate Degree for Transfer in Biology would require that the student has completed:**

- a. All courses in Areas A, B, and E of the traditional GE Breadth curriculum; and
- b. One course in Area C1 Arts and one course in Area C2 Humanities; and
- c. Two courses in Area D from two different disciplines.

## **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 and Chemistry allow IGETC for STEM.**

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

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

- All courses in Areas 1 (except 1C for UC-bound students), 2, and 5 of the traditional IGETC; and
- One course in Area 3A; one course in Area 3B; and two courses in Area 4 from two different disciplines.

**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;\* 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.***