



San Bernardino Valley College

2026-2027 Catalog Addendum



This addendum to the 2025-2026 San Bernardino Valley College Catalog reflects updates and offers new educational opportunities for students. These updates/revisions were approved after the 2024-2025 Catalog was published online. Although we have made every effort to ensure the accuracy of the information, all students should consult a counselor for further information.

Our Mission: San Bernardino Valley College provides innovative instructional programs and cohesive student services to support the educational goals of a culturally diverse community of learners by engaging in continuous improvement and actively working towards an antiracist culture to foster an environment of meaningful learning and belonging for our students, employees, and the community.

Program Modification

Biology 2.0 Associate in Science for Transfer Degree

The Associate in Science in Biology 2.0 for Transfer (AS-T) degree is intended for students who plan to transfer and complete a Bachelor's degree in Biology, or a similar major at a CSU campus. It serves the diverse needs of students who wish to obtain a broad and an in-depth understanding of the field. The Biology Department offers comprehensive and integrative studies in each of the introductory courses of Biology. Courses in Biology prepare students interested in careers in cell biology, genetics, physiology, developmental biology, biotechnology, zoology, botany, microbiology, evolution, ecology, behavior, environmental studies, and the health sciences. The objective of this degree is to delineate a successful career path for our community college students entering the Biology program and to provide opportunities that explore the Biology major. Upon successful completion of the AS-T in Biology 2.0, students may be able to enter majors for any of these Biology subfields.

The Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing the AS-T are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn this Biology AS-T degree, students must meet the following requirements:

- Completion of the following major requirements with a minimum grade of "C" (or "P").
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC), which requires a minimum of 34 units; and
- Completion of a minimum 60 Cal-GETC transferrable semester units with a minimum "C" grade required in each course. A "C" is defined as a minimum of 2.0 grade points on a 4.0 scale.

Students planning on transferring to a four-year institution and major in Biology should consult with a counselor regarding the transfer process and lower division requirements.

REQUIRED COURSES:

Course ID	Course Title	Units
BIOL 205	Cell and Molecular Biology	4.0
BIOL 206	Organismal Biology	4.0
BIOL 207	Evolutionary Ecology	4.0
CHEM 150	General Chemistry I	5.0
CHEM 151	General Chemistry II	5.0
MATH C2210	Calculus I: Early Transcendentals	4.0
LIST A:		
CHEM 212	Organic Chemistry I	5.0

Major Total Units: 31

Total Double-Counted Units: 10

General Education (Cal-GETC) Units: 34

Elective Units: 5

Degree Total Units: 60.0

Program Learning Outcomes

At the completion of this program, students will be able to:

1. Evaluate biological systems across molecular, cellular, organismal, population, and ecological scales, integrating evolutionary principles as the unifying framework.
2. Design and conduct independent semester-long biological investigations in laboratory and field settings, formulating hypotheses, collecting data, performing statistical analyses, and communicating findings through written reports, oral presentations, and visual data representation.
3. Evaluate biological information for scientific validity, distinguishing evidence-based claims from pseudoscience and misinformation.

4. Apply subdisciplinary techniques and instrumentation including microscopy, molecular methods, physiological measurement, and ecological sampling to analyze organisms across biological scales from molecular to ecosystem.
5. Examine biological issues through interdisciplinary lenses, including ethical, environmental, and social equity perspectives relevant to local, regional, and global communities.

Updating the Biology AS-T Degree to the Biology 2.0 AS-T effective Fall 2026.

Program Addition

Chemistry Associate in Science - Transfer Degree, AS-T

The Associate in Science for Transfer (AS-T) in Chemistry is designed for students planning to transfer and complete a Bachelor's degree in Chemistry or a related field at a CSU campus. The program provides a broad, in-depth foundation in chemistry, preparing students for upper-division coursework at a four-year institution where they may choose to specialize in areas such as Environmental, Organic, Analytical, or Physical Chemistry.

The Chemistry Department offers a comprehensive curriculum across its introductory course sequence, giving students the academic preparation and exploratory opportunities needed to build a successful path in the field.

Students completing the AS-T are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn the Chemistry AS-T, students must meet the following requirements:

- Completion of all major requirements with a minimum grade of "C" (or "P").
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC), which requires a minimum of 34 units.
- Completion of a minimum of 60 Cal-GETC transferable semester units, with a minimum grade of "C" (2.0 on a 4.0 scale) in each course.

Students planning to transfer and major in Chemistry should consult with a counselor regarding the transfer process and lower-division requirements.

REQUIRED COURSES:

CHEM 150	General Chemistry I	5.0
CHEM 151	General Chemistry II	5.0
CHEM 212	Organic Chemistry I	5.0
CHEM 213	Organic Chemistry II	5.0
PHYSIC 202	Physics I	4.0
PHYSIC 203	Physics II	4.0
MATH C2210	Calculus I: Early Transcendentals	4.0
MATH C2220	Calculus II: Early Transcendentals	4.0

Major Total Units: 36

Total Double-Counted Units: 7

General Education (Cal-GETC) Units: 34

Elective Units: 0-3

Degree Total Units: 63.0-66.0

Program Learning Outcomes

At the completion of this program, students will be able to:

1. Apply fundamental principles of chemistry, including stoichiometry, bonding theory, thermodynamics, equilibrium, and kinetics, to solve quantitative and qualitative problems and predict the properties and behavior of chemical systems.
2. Demonstrate proficiency in organic chemistry by predicting reaction mechanisms, products, and synthetic pathways, as well as analyzing the stability and reactivity of organic compounds based on their structures and functional groups.

3. Interpret and analyze spectroscopic data, including infrared (IR), mass spectrometry (MS), and nuclear magnetic resonance (NMR) spectra, to elucidate the structures of organic compounds and justify reaction predictions.
4. Exhibit competency in laboratory techniques, including assembling experimental setups, collecting and analyzing data, performing calculations, and effectively communicating the results of experiments.

Addition to the 2026/2027 Catalog effective Fall 2026.