

BIOLOGY, ASSOCIATE IN SCIENCE FOR TRANSFER (AS-T)

Program Goals and Objectives

Must address a valid transfer, workforce preparation, basic skills, civic education, or lifelong learning purpose.

This transfer degree helps students focus on core prerequisite courses and supports them as they move toward their goal. Students who complete this degree will satisfy lower division general education and major requirements for transfer to CSU Biology programs. Further, students who complete the degree will be guaranteed admission to the CSU system.

The proposal must demonstrate a need for a program that meets the stated goals and objectives in the region the college proposes to serve with the program.

Comply with SB 1440 by providing a pathway for students transferring to a CSU in a major deemed similar.

Program Student Learning Outcomes

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Upon completion of this program a student will be able to:

demonstrate an understanding of how evolutionary principles provide a comprehensive model for understanding the origins and relationships of living organisms.

utilize the scientific method to critically analyze data and results.

demonstrate an understanding of biological observation and experiments as well as the information and theories derived from both of these methods of study.

Catalog Description

Includes program requirements, prerequisite skills or enrollment limitations, student learning outcomes, and information relevant to program goal.

The Associate in Science in Biology for Transfer (AS-T) is intended for students who plan to transfer and complete a bachelor's degree in Biology, or a "similar" major at a CSU campus. Each CSU campus determines which of the degrees it offers are "similar" and can be completed with the preparation included in the AS-T in Biology within 60 units once a student transfers, so which majors are "similar" varies from CSU to CSU. For a current list of what majors (and what options or areas of emphasis within that major) have been designated as "similar" to this degree at each CSU campus, please refer to CSU's Associate Degree for Transfer Major and Campus Search CSU's Associate Degree for Transfer Major & Campus Search (<https://www.calstate.edu/apply/transfer/pages/associate-degree-for-transfer-major-and-campus-search.aspx>) website and seek guidance from a Moorpark College counselor. Students completing this degree are guaranteed admission to the CSU system, but not to a particular campus or major.

Includes course requirements and sequencing that reflect program goals.

To earn an AS-T in Biology, students must:

- Complete 60 semester or 90 quarter units that are eligible for transfer to the California State University, including both of the following:
 - The Intersegmental General Education Transfer Curriculum (IGETC) for STEM* or the California State University General Education-Breadth (CSU GE-Breadth) for STEM* requirements.
 - The required coursework for the AS-T in Biology as listed in the Moorpark College catalog.
- Obtain a minimum grade point average (GPA) of at least 2.0. While a minimum of 2.0 is required for admission, some transfer institutions and majors may require a higher GPA. Please consult with a counselor for more information.
- Obtain a grade of "C" or better or "P" in all courses required in the major. Even though a "pass-no-pass" is allowed (Title 5 §55062), it is highly recommended that students complete their major courses with a letter grade (A, B, or C).
- Complete requirements in residency. For students in the Ventura County Community College District, a minimum of 12 semester units must be completed in residence within the college district.

Students transferring to a CSU campus that does accept the AS-T in Biology will be required to complete no more than 60 units after transfer to earn a bachelor's degree. This 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. Students should consult with a counselor to obtain more information on university admission and transfer requirements.

* This AS-T presumes completion of the CSU GE-Breadth for STEM or IGETC for STEM, allowing deferment of two courses (one in Arts/Humanities and one in Social Science) to be completed after transfer.

Course ID	Title	Units/Hours
Required Courses		
BIOL M02A or BIOL M02AH	General Biology I Honors: General Biology I	5
BIOL M02B	General Biology II	5

or BIOL M02BH	Honors: General Biology II	
LIST A: Select and complete the following		
Complete two semesters of General Chemistry		10
CHEM M01A	General Chemistry I	5
or CHEM M01AH	Honors: General Chemistry I	
CHEM M01B	General Chemistry II	5
Select and complete one Calculus course		3-5
MATH M25A	Calculus with Analytic Geometry I	5
or MATH M25AH	Honors: Calculus with Analytic Geometry I	
MATH M16A	Applied Calculus I	3
Complete two semesters of Physics		10
PHYS M10A	General Physics I	4
PHYS M10AL	General Physics I Lab	1
PHYS M10B	General Physics II	4
PHYS M10BL	General Physics II Laboratory	1
OR		
PHYS M20A	Mechanics of Solids and Fluids	4
PHYS M20AL	Mechanics of Solids and Fluids Laboratory	1
PHYS M20B	Thermodynamics, Electricity, and Magnetism	4
PHYS M20BL	Thermodynamics, Electricity, and Magnetism Laboratory	1
Total Units for Major		33 - 35
• General Education Requirements: To comply with SB 1440 and to not exceed the maximum units allowed, the CSU GE-Breadth for STEM or the IGETC for STEM is the recommended GE pattern to be used for this transfer degree.		
CSU General Education-Breadth for STEM		33
Double-Counted Units		10
Electives to meet 60 CSU units		2 - 6
IGET for STEM		31
NOTE: IGETC 1C is required for all CSU applicants. Students applying to a UC or Private school may earn this ADT without IGETC 1C but will be ineligible to apply to a CSU.		
Double-Counted Units		10
Electives to meet 60 CSU units		4 - 6
Total Units Required for the AS-T Degree		60

Plan of Study

Includes a list of courses organized by the suggested semester a student should enroll. Make sure to align the plan of study with when courses are typically offered.

Semester 1: MATH M07, ENGL M01A, CHEM M01A/H

Semester 2: MATH M16A or MATHM25A, CHEM M01B

Semester 3: BIOL M02A/H, PHYS M10A+PHYS M10AL or PHYS M20A+ M20AL

Semester 4: BIOL M02B/H, PHYS M10B+PHYS M10BL or PHYS M20B+PHYS M20BL