

AS-T Biology to B.S. Biology + Teaching Credential Transfer Pathway 2024-2025

This pathway is for students who have completed an AS-T in Biology with all General Education requirements.

In addition, students in the Biology ITEP program should complete US/CA government (US2,3), one semester of a language other than English, and a US History course before transferring.

Students who complete one semester of organic chemistry with lab and an earth science course prior to transfer can shift the courses shown as “Summer 1” to the regular academic year, and should meet with the Biology Advisor to plan their first year at CSUMB.

Summer 1 Courses (6 units)	Course or GE Title	Units	GE/Major
SPED 560	Inclusionary Practices	3	concentration
HCOM 335 or any UDC	American Ethnic Literature & Culture	3	UDC
Fall 1 Courses (18 units)	Course or GE Title	Units	GE/Major
BIO 330	Physiology or Evolutionary Biol course	3	Concentration
CHEM 211 & 211L (if not done prior to transfer)	Organic Chemistry I & Lab	3+2	Major
STAT 250	Applied Stats for Science & Tech	4	Major
BIO 341	Evolutionary Biol & Population Genetics	3	Concentration
GEOL 210 (if not done prior to transfer)	Earth Science for Teachers	3	Concentration
Spring 1 Courses (18 units)	Course or GE Title	Units	GE/Major
BIO 311	Genetics	4	UDB, conc
BIO 320	Microbiology	4	Concentration
BIO 301	Research & Technical Writing in Biology	3	GWAR, Core
BIO 340	Ecology	4	UDB, major
SBS 384S (spring only)	Anthropology of Bilingual Education	3	UDD, UDSL
Summer 2 Courses (6 units)	Course or GE Title	Units	GE/Major
ED 607	Adolescent Development & Learning	3	Cred
ED 628	Secondary Pedagogy & Linguistic Diversity	3	Cred
Fall 2 Courses 17 units)	Course or GE Title	Units	GE/Major
ED 510	Positive Behavior & Intervention	3	Cred
ED 605A	Secondary Curric & Instruction: Science	3	Credential
ED 624	Stage 1 Supervised Secondary Teaching	8	Credential
ED 624A	Stage 1 Supervised Secondary Tch Seminar	3	Credential
Spring 2 Courses (17 units)	Course or GE Title	Units	GE/Major
ED 627	Second Language & Literacy Development	3	Credential
ED 643	Educational Measurement & Evaluation	3	Credential
ED 625	Stage 2 Supervised Secondary Teaching	8	Credential
ED 625A	Stage 2 Supervised Secondary Tch Seminar	3	Credential
BIO B.S. + Credential		82	

The Biology B.S. + Credential program requires 74 credits at CSUMB for students who completed Organic Chemistry 1 and Earth Science/Geology prior to transfer.