

AS-T Biology to B.S. Biology: Teacher Preparation Concentration 2024-2025

This pathway is for students who have completed an AS-T in Biology with IGETC for STEM, and have sent official degree verification to CSUMB. The CSUMB pathway includes 6 units of lower-division GE (based on IGETC for STEM), the CSU American Institutions requirement, and 9 units of upper-division GE.

Transfer students who did not complete an Associate for Transfer in Biology should meet with the Biology academic advisor to update their individualized pathway in the "My Learning Plan" degree planner in Oasis.

Fall Junior Courses (15 units)	Course or GE Title	Unit s	GE/Major
BIO 330	Physiology or Evolutionary Biol course	3	Concentration
CHEM 211 & CHEM 211L	Organic Chemistry I & Lab	3+2	Major
STAT 250	Applied Stats for Science & Tech	4	Major
Lower-division GE area C and World Culture and Language requirement	Language other than English and C2 for completion of IGETC	3	C2, WCL
Spring Junior Courses (17 units)	Course or GE Title	Unit s	GE/Major
BIO 340	Ecology	4	UDB, conc
BIO 320	Microbiology	4	Concentration
BIO 301	Research & Technical Writing in Biology	3	GWAR, Core
SL 210S or ED 212S	Completion of IGETC and US2,3	3	DCSL (US2,3)
GEOL 210	Introduction to Earth Science	3	Concentration
Fall Senior Courses (17 units)	Course or GE Title	Unit s	GE/Major
BIO 341	Evolutionary Biol & Population Genetics	3	Concentration
BIO 379S	Biology Service Learning	3	UDSL, Conc
MSCI 337 (fall only)	Robotics for Ecological Research	4	Concentration
BIO 311	Genetics	4	UDB, Major
Upper-Division Arts or Humanities GE	Any UDC	3	UDC
Spring Senior Courses (15 units)	Course or GE Title	Unit s	GE/Major
Teacher Preparation Elective	Concentration Elective	3	Concentration
BIO 493+494 or BIO 421+492 or BIO 430+MSCI 410 or BIO 444+BIO 492 or BIO 448+ENVS 410 or MSCI 437+MSCI 410	Biology Education Capstone	4-5	Concentration
HCOM 353 or SBS 350 or HCOM 369	UD Social Science with US History and CSUMB Ethnic Studies	3	UDD, US1, ES*
PHYS 221	Physics II	4	Elective if needed
BIO Teacher Prep AS-T pathway:		64	

*Note: Students on GE catalogs prior to fall 2021 must complete the CSUMB ethnic studies (ES) requirement.