

Microbiology

Major Courses

2022 - 2026 Catalog Requirements

To be used only for students completing quarter requirements in the 2026-27 year.

Page 1/4



Do you need to fulfill a quarter course? Check the semester equivalency!

	QUARTER COURSE	SEMESTER COURSE	NOTES
MAJOR COURSES	BIO 150 Diversity and History of Life	← BIO 1150 Life History and Diversity	
	BIO 161 Intro to Cell and Molecular Biology	← BIO 1151 Life: Molecules and Cells	
	BIO 263 Introductory Ecology and Evolution	← BIO 2253 Principles of Ecology and Evolution	
	BIO 351 Principles of Genetics	← BIO 3351 -Principles of Genetics	
	BIO 452 Cell Biology	← BIO 4452 Cell Biology	
	MCRO 224 General Microbiology I	← MCRO 2224 General Microbiology I	
	MCRO 225 General Microbiology II	← MCRO 2227 General Microbiology II	
	MCRO 424 Microbial Physiology	← MCRO 4424 Microbial Physiology & Biochemistry	
	Choose 3 from the following: BIO 426 BIO 475 MCRO 402 MCRO 423 MCRO 436	← Choose 3 from the following: BIO 4456 BIO 4457 MCRO 4402 MCRO 4423 MCRO 4436	
	BIO 461 Senior Project or BIO 462 -Senior Project Research Experience	← BIO 4461 Senior Project or BIO 4462 -Senior Project Research Experience	

Note: For all discontinued courses, the last time these will be offered is during the 2025-2026 academic year



Visit the BCSM semester conversion website for more information at csmadvising.calpoly.edu/semester-conversion



CAL POLY
 Student Services
 BAILEY COLLEGE OF
 SCIENCE & MATHEMATICS

Make sure to check your Degree Progress Report and Degree Planner to see if you have enough units to graduate

Microbiology

Major Support Courses

2022 - 2026 Catalog Requirements

Page 2/4



Do you need to fulfill a quarter course?
Check the semester equivalency!

	QUARTER COURSE		SEMESTER COURSE	NOTES
SUPPORT COURSES	CHEM 127 Gen CHEM for Ag & Life Science I	←	CHEM 1120 Fundamentals of Chemical Structure & Properties	
	CHEM 128 Gen CHEM for Ag & Life Science II	←	CHEM 1122 Fundamentals of Chemical Reactivity	
	CHEM 129 Gen CHEM for Ag & Life Science III	✗	DISCONTINUED	Term last offered: Summer 2026
	CHEM 216 Organic Chemistry I	←	CHEM 2242 Organic Chemistry I	
	CHEM 217 Organic Chemistry II & CHEM 220 Organic Chem Lab for Life Science	←	CHEM 2244 Organic Chemistry II & DISCONTINUED	
	CHEM 314 Blochem: Fund. & Apps OR CHEM 369 Biochemical Principles	←	CHEM 3350 Blochem: Fund. & Apps OR CHEM 3352 Biochemical Principles	
	MATH 161 Calculus for the Life Sciences I	→	MATH 1264 Calculus for Data Science I	
	PHYS 121 College Physics I	←	PHYS 1121 College Physics I	
	PHYS 122 College Physics II	✗	DISCONTINUED	Students may need to take bridge class
	PHYS 123 College Physics III	←	PHYS 1123 College Physics II	
	STAT 218 Applied Statistics for the Life Sciences	←	STAT 1110 Applied Statistical Concepts and Methods	



Visit the BCSM semester conversion website for more information at csmadvising.calpoly.edu/semester-conversion



CAL POLY
Student Services
BAILEY COLLEGE OF
SCIENCE & MATHEMATICS

Make sure to check your Degree Progress Report and Degree Planner to see if you have enough units to graduate

Microbiology

Approved Electives

2022 - 2026 Catalog Requirements

Page 3/4



Do you need to fulfill a quarter course? Check the semester equivalency!

	QUARTER COURSE	SEMESTER COURSE	NOTES	
APPROVED ELECTIVES	BIOTECHNOLOGY ASCI 403 BIO 202 BIO 475 BIO/CHEM 476 BRAE 448 CHEM 372 CHEM 474 MCRO 433	←	BIOTECHNOLOGY ASCI 4403 BIO 2252 BIO 4457 DISCNT BRAE 4448 CHEM 3354 CHEM 4454 MCRO 4433	
	FOOD MICROBIOLOGY DSCI 402 DSCI 444 FSN 230 FSN 275 FSN 335 FSN 340 FSN 364 FSN 368 FSN 374 MCRO 301 MCRO 421		FOOD MICROBIOLOGY DSCI 4402 DSCI 3344 FSN 1111 FSN 2245 FDSC 3340 FSN 3316 FDSC 3350 FDSC 3355 FDSC 3310 MCRO 3301 MCRO 4421	
	MEDICAL & PUBLIC HEALTH MICROBIOLOGY ASCI 321 BIO 406 BIO 407 BIO 408 BIO 409 BIO 410 BIO 426 BIO 428 BIO 429 CHEM 349 CHEM 377 CHEM 477 KINE 301 MCRO 320 MCRO 342 MCRO 423		MEDICAL & PUBLIC HEALTH MICROBIOLOGY ASCI 3321 BIO 4433 BIO 4434 BIO 4431 BIO 4432 BIO 4436 BIO 4456 BIO 4458 BIO 4429 CHEM 3374 CHEM 4457 DISCONTINUED DISCONTINUED MCRO 3320 MCRO 3342 MCRO 4423	
	MICROBIAL DIVERSITY, ECOLOGY & EVOLUTION BIO 413 BIO 414 MCRO 402 MCRO 436 SS 422		MICROBIAL DIVERSITY, ECOLOGY & EVOLUTION BIO 4413 BIO 4414 MCRO 4402 MCRO 4436 SS 4422	



Visit the BCSM semester conversion website for more information at csmadvising.calpoly.edu/semester-conversion



CAL POLY
 Student Services
 BAILEY COLLEGE OF
 SCIENCE & MATHEMATICS

Make sure to check your Degree Progress Report and Degree Planner to see if you have enough units to graduate

Microbiology

Approved Electives

2022 - 2026 Catalog Requirements

Page 4/4



Do you need to fulfill a quarter course?
Check the semester equivalency!

	QUARTER COURSE	SEMESTER COURSE	NOTES
APPROVED ELECTIVES	BIOINFORMATICS & DATA ANALYSIS	BIOINFORMATICS & DATA ANALYSIS	
	BIO 441	BIO 4451	
	DATA 301	DATA 3301	The recommended course to take for STAT 313 is STAT 3520
	STAT 313	DISCONTINUED	
	STAT 419	STAT 4790	
	STAT 421	DISCONTINUED	
	Additional Electives:	Additional Electives:	
	ASCI 203	ASCI 2203	
	ASCI 440	ASCI 4440	
	ASCI 438	ASCI 4438	
	BOT 323	BOT 3323	CHEM 2244 equivalency for CHEM 218 & CHEM 223
	CHEM 218	DISCONTINUED	
	CHEM 223	DISCONTINUED	
	CHEM 331	CHEM 3330	
	CHEM 341	CHEM 3372	
	CHEM 418	CHEM 4458	
	BIO 162	DISCONTINUED	
	BIO 300	BIO 3300	
	BIO 335	BIO 3325	
	BIO 336	BIO 3326	
	BIO 361	BIO 3352	
	BIO 400	BIO 4400	
	BIO 434	BIO 4422	
	BIO 450	BIO 4450	
	BIO 462	BIO 4462	
	BIO 463	BIO 4466	
	ENVE 434	ENVE 3434	
	MATH 162	MATH 1262	
	MCRO 100	MCRO 1100	
	PLSC 313	PLSC 3313	
	PLSC 441	PLSC 4441	



Visit the BCSM semester conversion website for more information at csmadvising.calpoly.edu/semester-conversion



CAL POLY
Student Services
BAILEY COLLEGE OF
SCIENCE & MATHEMATICS

Make sure to check your Degree Progress Report and Degree Planner to see if you have enough units to graduate