

Microbiology

Major Courses

2022 - 2026 Catalog Requirements

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

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

MAJOR COURSES	QUARTER COURSE	SEMESTER COURSE	NOTES
	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



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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

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SUPPORT COURSES	QUARTER COURSE		SEMESTER COURSE	NOTES
	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	Students can use CHEM 2240 or CHEM 2242 to count for CHEM 216, CHEM 217, and CHEM 220
	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	



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Approved Electives

2022 - 2026 Catalog Requirements

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APPROVED ELECTIVES

QUARTER COURSE	SEMESTER COURSE	NOTES
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	



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APPROVED ELECTIVES

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



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