

Microbiology

Major Courses

2026-28 Course Mappings
To be used to show how previously taken quarter courses will count towards the 2026-28 Semester Catalog Requirements

	QUARTER COURSE	SEMESTER COURSE MAPPING	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	Units applied to approved electives
	BIO 351 Principles of Genetics	➔ BIO 3351 -Principles of Genetics	Credit applied to MCRO 3351 Bio 475 applied to MCRO 3352
	BIO 452 Cell Biology	➔ BIO 4452 Cell Biology	Units applied to restricted or approved electives
	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	Units applied to restricted or approved electives
	Choose 3 from the following: BIO 426 BIO 475 MCRO 402 MCRO 423 MCRO 436	➔ BIO 4456 BIO 4457 MCRO 4402 MCRO 4423 MCRO 4436	Units applied to restricted electives
	BIO 461 Senior Project or BIO 462 -Senior Project Research Experience	➔ BIO 4461 Senior Project or BIO 4462 -Senior Project Research Experience	BIO 4463 can also be used for BIO 4461 or BIO 4462



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SUPPORT COURSES	QUARTER COURSE	SEMESTER COURSE MAPPING	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	✗ No semester equivalent	Units applied to overall unit shortages
	CHEM 129 Gen CHEM for Ag & Life Science III	➔ CHEM 1122 Fundamentals of Chemical Reactivity	
	CHEM 216 Organic Chemistry I	➔ CHEM 2242 Organic Chemistry I	
	CHEM 217 Organic Chemistry II & CHEM 220 Organic Chem Lab for Life Science	➔	Units applied to approved electives
	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	✗ No semester equivalent	Units applied to Math 1264 (Not open to enroll in Math 1265)
	PHYS 121 College Physics I	➔ PHYS 1121 College Physics I	
	PHYS 122 College Physics II	✗ No semester equivalent	Units applied to overall unit shortages
	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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Microbiology

Approved Electives

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APPROVED ELECTIVES	BIOTECHNOLOGY	APPROVED ELECTIVES	
	ASCI 403 BIO 202 BIO 475 BIO/CHEM 476 BRAE 448 CHEM 372 CHEM 474 MCRO 433	ASCI 4403 BIO 2252 BIO 4457 - Restricted Elective BIO/CHEM 476- Approved Elective BRAE 4448 CHEM 3354 CHEM 4454 MCRO 4433- Restricted Elective	
	FOOD MICROBIOLOGY	APPROVED ELECTIVES	
	DSCI 402 DSCI 444 FSN 230 FSN 275 FSN 335 FSN 340 FSN 364 FSN 368 FSN 374 MCRO 301 MCRO 421	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	APPROVED ELECTIVES	
	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	ASCI 3321 BIO 4433 BIO 4434 BIO 4431 BIO 4432 BIO 4436 BIO 4456- Restricted Elective BIO 4458 BIO 4429- Restricted Elective CHEM 3374 CHEM 4457 DISCONTINUED DISCONTINUED MCRO 3320 MCRO 3342 MCRO 4423- Restricted Elective	
	MICROBIAL DIVERSITY, ECOLOGY & EVOLUTION	APPROVED ELECTIVES	
	BIO 413 BIO 414 MCRO 402 MCRO 436 SS 422	BIO 4413 BIO 4414 MCRO 4402- Restricted Elective MCRO 4436- Restricted Elective SS 4422	



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APPROVED ELECTIVES	BIOINFORMATICS & DATA ANALYSIS →	APPROVED ELECTIVES	
	BIO 441	BIO 4451	
	DATA 301	DATA 3301	
	STAT 313	STAT 313- Approved Elective	
	STAT 419	STAT 4790	
	STAT 421	STAT 421 - Approved Elective	
	Additional Electives: →	APPROVED ELECTIVES	
	ASCI 203	ASCI 2203	
	ASCI 440	ASCI 4440	
	ASCI 438	ASCI 4438	
	BOT 323	BOT 3323	
	CHEM 218	CHEM 218	
	CHEM 223	CHEM 223	
	CHEM 331	CHEM 3330	
	CHEM 341	CHEM 3372	
	CHEM 418	CHEM 4458	
	BIO 162	BIO 162-Units applied to free electives	
	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 or BIO 200, BIO 300 or BIO 400*	MCRO 1100	*Students must have research experience to satisfy MCRO 1100
	PLSC 313	PLSC 3313	
	PLSC 441	PLSC 4441	



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