

Biological Sciences

Major Courses

Quarter to Semester Course Mappings
 To be used to show how previously taken quarter courses will count towards the 2026-28 Semester Catalog Requirements.
 Please view the 2026-28 degree requirements here:
<https://catalog.calpoly.edu/science-mathematics/biological-sciences/biological-sciences-bs/>

QUARTER COURSE	SEMESTER COURSE or MAPPING	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 162 Introduction to Organismal Form & Function	✗ No semester equivalent	Units applied to overall unit shortage
BIO 263 Introductory Ecology and Evolution	➔ BIO 2253 Principles of Ecology and Evolution	
BIO 351 Principles of Genetics	➔ BIO 3351 -Principles of Genetics	
BIO 413 Evolutionary Medicine or BIO 414 Evolution	➔ Apply course to EEBC concentration or 3000-4000 level electives	
BIO 461 Senior Project or BIO 462 -Senior Project Research Experience	➔ BIO 4461 Senior Project Research Proposal OR BIO 4462 -Senior Project Research Experience	
Ecology- Select one of the following BIO 327 Wildlife Ecology BIO 363 Principles of Conservation Biology BIO 442 Behavioral Ecology BOT 326 Plant Ecology MCRO 436 Microbial Ecology MSCI 300 Marine Ecology	➔ BIO 3327 Wildlife Ecology BIO 3343 Principles of Conservation Biology BIO 4442 Behavioral Ecology BOT 3326 Plant Ecology MCRO 4436 Microbial Ecology MSCI 3000 Marine Ecology	Ecology topic not a requirement. For general concentration courses taken in this category move to 3000-4000 electives. EECB concentration: ecology courses or approved electives
PHYSIOLOGY: Select from the following: BIO 361 Principles of Animal Physiology OR BIO 434 Environmental Physiology OR BIO 435 Plant Physiology	➔ BIO 3352 Principles of Animal Physiology (required in major) BIO 4422 Environmental Physiology or BIO 3338 Plant Physiology	BIO 3352 is a required course for all students. BIO 4422 or BIO 3338 credit applied to BIO 3352

MAJOR COURSES



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Biological Sciences

Major Support Courses

26-28 Course Mappings

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2026-28 Course Mappings
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	QUARTER REQUIREMENT	SEMESTER COURSE MAPPING	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	✗ No semester equivalent	Units applied to technical elective or overall unit shortage
	CHEM 129 Gen CHEM for Ag & Life Science III	➔ CHEM 1122 Fundamentals of Chemical Reactivity	
	CHEM 216 Organic Chemistry I OR CHEM 312 Organic Chem: Fund. & Applications	➔ CHEM 2242 Organic Chemistry I OR CHEM 2240 Organic Chem: Fund. & Applications	
	MATH 161 Calculus for the Life Sciences I	✗ No semester equivalent	Units applied to Math 1264 (but does not meet the requisite to enroll in Math 1265)
	MATH 162 Calculus for the Life Sciences II	✗ No semester equivalent	Units applied to technical electives or approved electives
	PHYS 121 College Physics I	➔ PHYS 1121 College Physics I	
	PHYS 122 College Physics II	✗ No semester equivalent	Units applied to technical elective or overall unit shortage
	PHYS 123 College Physics III	➔ PHYS 1123 College Physics II	Units applied to technical elective or approved elective
	STAT 218 Applied Statistics for the Life Sciences	➔ STAT 1110 Applied Statistical Concepts & Methods	



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	QUARTER REQUIREMENT	SEMESTER COURSE OR MAPPING	NOTES
GENERAL CURRICULUM CONCENTRATION	<p>BIODIVERSITY COURSES Select from the following:</p> <p>BIO 321 BIO 322 BIO 323 BIO 324 BIO 329 BIO 335 BIO 336 BIO 429 BOT 313 MCRO 224 MCRO 402 MSCI 324</p>	<p>➔ Not a Required Area for General Curriculum</p> <p>BIODIVERSITY COURSES BIO 3321 BIO 3322 BIO 3323 BIO 3324 Approved Elective BIO 3325 BIO 3326 BIO 4429 BOT 3313 MCRO 2224-Lower division Approved Elective MCRO 4402 MSCI 3324</p>	3000-4000 level electives or approved electives unless otherwise noted
	<p>400 Level Electives: Select from any 400 level BIO/BOT/MCRO/MSCI course, except BIO 400, 450, 461, 462, 463</p>	<p>➔</p> <p>4000 Level Electives: Select from any 4000 level BIO/BOT/MCRO/MSCI course except BIO 4000, BIO 4450, BIO 4461, BIO 4462, BIO 4466</p>	
	<p>300-400 level Electives Select from any 300-400 level BIO/BOT/MCRO/MSCI course, except BIO 300, 330, 400, 450, 461, 462, 463, and courses "not open for major credit in Biological Sciences."</p>	<p>➔</p> <p>3000-4000 level Electives Select from any 300-400 level BIO/BOT/MCRO/MSCI course, except BIO 3000, 4000, 4450, 4461, 4462, 4463, and courses "not open for major credit in Biological Sciences."</p>	
	<p>Approved Electives: Any BIO/BOT/MCRO/MSCI course except those "not open for major credit in Biological Sciences. Select from the following:</p>	<p>➔</p> <p>Approved Electives: Any BIO/BOT/MCRO/MSCI course except those "not open for major credit in Biological Sciences. Select from the following:</p>	
	<p>AG/EDES/ENGR/ISLA/SCM/UNIV 350 ANT 401 ASCI 239 ASCI 351 ASCI 403 ASCI 405 OR BIO 407 ASCI 406 ASCI 438</p>	<p>AG/EDES/ENGR/ISLA/SCM/UNIV 3350 ANT 4401 ASCI 2239 ASCI 3351 ASCI 4403 ASCI 4405/BIO 4434 ASCI 4406 ASCI 4438</p>	Approved Electives
	<p>CHEM 217 CHEM 218 CHEM 220 CHEM 223 CHEM 314 OR CHEM 369 CHEM 331 CHEM 341 CHEM 372 CHEM 377 CHEM 418 CHEM 428</p>	<p>Approved Elective Technical Elective or Approved Elective Approved Elective Approved Elective CHEM 3350 OR CHEM 3352 CHEM 3330 CHEM 3372 CHEM 3354 CHEM 4457 CHEM 4458 CHEM 4450</p>	Approved Electives



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Biological Sciences

General Curriculum Concentration

26-28 Course Mappings

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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 OR MAPPING	NOTES
GENERAL CURRICULUM CONCENTRATION	COMS 418 CSC 101 DATA 301 ENGR 322/SCM 302 ERSC/GEOG 250 ES/WGQS 350	COMS 4418 CSC 1001 DATA 3301 ENGR/SCM 3302 GEOG 2250 ES/WGQS 3330	Approved Electives
	FSN 310 GEOG 441 KINE 406 KINE 445 KINE 446 LA/NR 218 OR GEOG 218	NUTR 3310 GEOG 4441 KINE 4406 KINE 4445 Approve Elective LA/NR 2218 GEOG 2218	Approved Electives
	NR 141 NR 142 NR 404 NR 416 NR 418 NR 425	NR 1141 NR 1142 NR 4404 NR 4416 NR 4418 Approved Elective	Approved Electives
	PHIL 323 PHIL 339 PHIL 341	PHIL 3323 PHIL 3339 PHIL 3341	Approved Electives
	PSC 201 PSY 320 PSY 340	PSC 2201 PSY 3320 PSY 2240	Approved Electives
	SS 120 SS 321 SS 322 SS 422	SS 1120 SS 3321 Approved Elective SS 4422	Approved Electives
	STAT 313 STAT 324 STAT 334 STAT 330 STAT 416 STAT 419 STAT 421	Approved Elective STAT 3430 STAT 3530 STAT 3800 STAT 4760 STAT 4790 Approved Elective	Approved Electives



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Biological Sciences

Anatomy & Physiology Concentration

26-28 Course Mappings

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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 OR MAPPING	NOTES
BIO 452 Cell Biology	BIO 4452 Cell Biology	Anatomy & Physiology Electives
CHEM 369 Biochemical Principles OR CHEM 314 Biochemistry Fund & Apps	CHEM 3352 Biochemistry OR CHEM 3350: Fundamentals and Applications	
BIODIVERSITY COURSES Select from the following:	Approved Electives BIO 3321 BIO 3324 BIO 3326 MCRO 2224 DISCNT DISCNT BIO 4429 MSCI 3324 BIO 3323 BIO 3325 BOT 3313 MSCI 4437	
Core Anatomy & Physiology Courses Select from the Following:	Anatomy & Physiology Electives: BIO 4433 BIO 4432 BIO 4456 BIO 4434 BIO 4431 BIO 4436	
Department Electives Select from the following:	Approved Electives	
BIO 321	BIO 3321	
BIO 322	BIO 3322	
BIO 323	BIO 3323	
BIO 324	BIO 3324	
BIO 329	APPROVED ELECTIVE	
BIO 335	BIO 3325	
BIO 336	BIO 3326	
BIO 405	BIO 4455	
BIO 406	BIO 4433	
BIO 407 or ASCI 405	BIO 4434	
BIO 408	BIO 4431	
BIO 409	BIO 4432	
BIO 410	BIO 4436	
BIO 411	BIO 3333	
BIO 415	BIO 4449	
BIO 426	BIO 4456	
BIO 428	BIO 4458	
BIO 429	BIO 4429	
BIO 434	BIO 4422	
BIO 435	BIO 3338	
BIO 470	BIO 4470	
BIO/CHEM 475	BIO 4457	
MCRO 224	MCRO 2224	
MCRO 225	MCRO 2227	
MCRO 320	MCRO 3320	
MCRO 342	MCRO 3342	
MCRO 402	MCRO 4402	
MCRO 423	MCRO 4423	
MCRO 424	MCRO 4424	

ANATOMY & PHYSIOLOGY CONCENTRATION



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Biological Sciences

Ecology, Evolution, Biodiversity & Conservation

Concentration

26-28 Course Mappings

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2026-28 Course Mappings

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

ECOLOGY, EVOLUTION, BIODIVERSITY & CONSERVATION CONCENTRATION

QUARTER COURSE	SEMESTER COURSE OR MAPPING	NOTES
BIO 363 Principles of Conservation Biology	➔ BIO 3343 Principles of Conservation Biology	Conservation Course
LA/NR 218 Intro to Geographic Info Systems (GIS) OR GEOG 218 Applications in GIS	➔ LA/NR 2218 Intro to Geographic Info Systems OR GEOG 2218 Applications in GIS	Approved Electives
Biodiversity Courses Select from the following: BIO 321 BIO 322 BIO 323 BIO 324 BIO 335 BIO 336 BOT 313 BOT 433 MCRO 224 MSCI 437	➔ BIODIVERSITY COURSES Select from the following: BIO 3321 BIO 3322 BIO 3323 BIO 3324 BIO 3325 BIO 3326 BOT 3313 BOT 4433 MCRO 2224- approved elective MSCI 4437 -approved elective	
Ecology & Evolution Courses: Select from the following: BIO 415 BIO 442 BIO 444 BIO 445 BIO 446 BIO 447 BOT 326 MCRO 436 MSCI 300	➔ Ecology & Evolution Courses: BIO 4449 - approved elective BIO 4442-ecology course BIO 4444-ecology course BIO 4444-ecology course BIO 4446- approved elective BIO 4447- approved elective BOT 3326- ecology course MCRO 4436- approved elective MSCI 3000- ecology course	
Conservation Courses: Select from the following: BIO 427 MSCI 428 MSCI 439 NR 416	➔ Conservation Courses: Select from the following: BIO 4427 DISCNT MSCI 4439 NR 4416	MSCI 4439- conservation BIO 4427, MSCI 428, NR 4416- approved electives
APPROVED ELECTIVES Select from the following: ASCI 239 BIO 300 BIO 321 BIO 322 BIO 323 BIO 324 BIO 327 BIO 329 BIO 330	➔ APPROVED ELECTIVES ASCI 2239 BIO 3000 BIO 3321 BIO 3322 BIO 3323 BIO 3324 BIO 3327- ecology course APPROVED ELECTIVE APPROVED ELECTIVE	



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Biological Sciences: Concentration

Ecology, Evolution, Biodiversity & Conservation

Concentration

26-28 Course Mappings

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2026-28 Course Mappings

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	QUARTER COURSE	SEMESTER COURSE OR MAPPING	NOTES
ECOLOGY, EVOLUTION, BIODIVERSITY & CONSERVATION CONCENTRATION	BIO 335	BIO 3325	
	BIO 336	BIO 3326	
	BIO 400	BIO 4400	
	BIO 415	BIO 4449	
	BIO 427	BIO 4427	
	BIO 429	BIO 4429	
	BIO 434	BIO 4422, BIO 3352	
	BIO 435	BIO 3338, BIO 3352	
	BIO 442	BIO 4442	
	BIO 445	BIO 4444	
	BIO 446	BIO 4446	
	BIO 450	BIO 4450	
	BIO 461	BIO 4461	
	BIO 462	BIO 4462	
	BIO 463	BIO 4466	
	BOT 311	BOT 3311	
	BOT 323	PLSC 3323	
	BOT 326	BOT 3326	
	GEOG 441	GEOG 4441	
	MCRO 224	MCRO 2224	
	MCRO 436	MCRO 4436	
	MSCI 300	MSCI 3000	
	MSCI 324	MSCI 3324	
	MSCI 428	MSCI 4437	
	MSCI 437	MSCI 4437	
	MSCI 439	MSCI 4439	
	NR 141	NR 1141	
	NR 142	NR 1142	
	NR 314	NR 4442	
	NR 404	NR 4404	
	NR 416	NR 4416	
	NR 418	NR 4418	
	NR 425	APPROVED ELECTIVE	
NR 445	NR 4445		
SCM 302	SCM 3302		
STAT 313	APPROVED ELECTIVE		
STAT 324	STAT 3430		
STAT 334	STAT 3530		
STAT 330	STAT 3800		
STAT 331	STAT 1810		
STAT 416	STAT 4760		
STAT 419	STAT 4790		
STAT 421	APPROVED ELECTIVE		



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Biological Sciences

Molecular & Cellular Biology Concentration

26-28 Course Mappings

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2026-28 Course Mappings

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	QUARTER COURSE	SEMESTER COURSE OR MAPPING	NOTES	
MOLECULAR & CELLULAR CONCENTRATION	BIO 452 Cell Biology	➔ BIO 4452 Cell Biology		
	BIO/CHEM 475 Molecular Biology Laboratory	➔ BIO 4457 Molecular Biology Laboratory		
	CHEM 217 Organic Chemistry II	➔ No semester equivalent	Approved Elective	
	CHEM 220 Organic Chemistry Laboratory for Life Sciences II	➔ No semester equivalent	Approved Elective	
	CHEM 369 Biochemical Principles	➔ CHEM 3352 Biochemistry	Advanced Elective	
	MCRO 224 General Microbiology I	➔ MCRO 2224 General Microbiology I	Approved Elective	
	Advanced Cell and Molecular Applications Select from the following:	➔		
	ASCI 403 BIO 405 BIO 426 BIO 428 BIO/CHEM 441 BIO/CHEM 476 CHEM 372 CHEM 418 CHEM 474 MCRO 402 MCRO 433		ASCI 4403- Advanced Elective BIO 4455- Advanced Elective BIO 4456- Advanced Elective BIO 4458- Approved Elective BIO 4451- Advanced Elective Advanced Elective CHEM 3354- Approved Elective CHEM 4458- Approved Elective CHEM 4454- Approved Elective MCRO 4402- Advanced Elective MCRO 4433- Approved Elective	
	Approved Electives Select from the following:			
	ASCI 403 ASCI 406 ASCI 407 BIO 202		ASCI 4403 ASCI 4406 ASCI 4407 BIO 2252	
CHEM 218 CHEM 223 CHEM 331 CHEM 372 CHEM 377 CHEM 418 CHEM 428 CHEM 474		Technical Elective or Approved Elective APPROVED ELECTIVE CHEM 3330 CHEM 3354 CHEM 4457 CHEM 4458 CHEM 4450 CHEM 4454		



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Biological Sciences

Molecular & Cellular Biology Concentration

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2026-28 Course Mappings
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	QUARTER COURSE	SEMESTER COURSE OR MAPPING	NOTES
MOLECULAR & CELLULAR CONCENTRATION	Approved Electives Select from the following:	Approved Electives	
	CSC 101	CSC 1001	
	DATA 301	DATA 3301	
	SCM 302	SCM 3302	
	ES/WGQS 350	WGQS 3350	
	PHIL 323	PHIL 3323	
	PHIL 339	PHIL 3339	
	PHIL 341	PHIL 3341	
	STAT 313	APPROVED ELECTIVE	



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