

2026-28 Course Mappings

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

Note: Not all 26-28 degree requirements are reflected on mappings. Check curriculum sheet for all requirements. Course prerequisites have been updated. Please consult an advisor to ensure prerequisites have been met.

MAJOR COURSES

QUARTER COURSE	SEMESTER COURSE or MAPPINGS	NOTES
CHEM 124 Gen Chem/Phys Sci & Engr I	➔ CHEM 1120 Fundamentals of Chemical Structure & Properties	
CHEM 125 Gen Chem/Phys Sci & Engr II	➔ CHEM 1122 Fundamentals of Chemical Reactivity	Students need to take CHEM 128C to enroll in CHEM 2242 or CHEM 3330
CHEM 126 Gen Chem/Phys Sci & Engr III	✗ No semester equivalent	Units applied to overall unit shortage; meets pre-reqs for CHEM 2242 and CHEM 3330
CHEM 203 Undergraduate Seminar I	➔ CHEM 2202 Undergrad seminar I	CHEM 2202 is not required; units applied to overall unit shortage
CHEM 216 Organic Chemistry I	➔ CHEM 2240 Organic Chem: Fund. & Application	Students need to take CHEM 216B to receive credit in CHEM 2242 and be able to enroll in CHEM3352.
CHEM 217 Organic Chemistry II	➔ CHEM 2242 Organic Chemistry I	
CHEM 218 Organic Chemistry III	➔ CHEM 2244 Organic Chemistry II	
CHEM 221 Organic Chemistry Lab II	✗ No semester equivalent	Credit applied to Advanced Lecture/Laboratory Subdiscipline Extension Electives OR Advanced Electives
CHEM 303 Undergraduate Seminar II	➔ CHEM 3302 Undergraduate Seminar II	
CHEM 324 Organic Chemistry Lab III	✗ No semester equivalent	Units applied to Advanced Lecture/Laboratory Subdiscipline Extension Electives
CHEM 331 Quantitative Analysis	➔ CHEM 3330 Foundations of Chemical Analysis	
CHEM 351 Physical Chemistry I	✗ No semester equivalent	Credit applied to advanced electives
CHEM 352 Physical Chemistry II	➔ CHEM 3394 Physical Chemistry II	Not required , credit applied to Advanced Lecture/Laboratory Subdiscipline Extension Electives OR Advanced Electives
CHEM 353 Physical Chemistry III	➔ CHEM 3392 Physical Chemistry I	
CHEM 356 Physical Chemistry Lab	➔ CHEM 3395 Physical Chemistry Lab II	Not required , credit applied to Advanced Lecture/Laboratory Subdiscipline Extension Electives or Advanced Electives
CHEM 357 Physical Chemistry III Lab	➔ CHEM 3393 Physical Chemistry Lab I	



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Chemistry

Major Courses & Support Courses

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	QUARTER REQUIREMENT		SEMESTER COURSE or MAPPING	NOTES
MAJOR COURSES	CHEM 369 Biochem. Principles	➔	CHEM 3352 Biochemistry	
	CHEM 403 Undergrad Sem III: Sr. Project	➔	CHEM 4462 Senior Project II	
	CHEM 439 Instrumental Analysis	➔	CHEM 4430 Instrumental Analysis	
	CHEM 481 Inorganic Chemistry	➔	CHEM 3320 Inorganic Chemistry II	Fulfills CHEM 2220 requirement
	CHEM 484 Inorganic Chemistry Lab	➔	CHEM 3321 Inorganic Chemistry II Lab	Fulfills CHEM 2221 requirement
	QUARTER COURSE		SEMESTER COURSE or MAPPING	NOTES
SUPPORT COURSES	BIO 161 Intro to Cell/Molecular Bio	➔	BIO 1151 Life: Molecules and Cells	
	MATH 141 Calculus I	➔	MATH 1261 Calculus I	
	MATH 142 Calculus II	✗	No semester equivalent	Credit applied to overall unit shortage
	MATH 143 Calculus III	➔	MATH 1262 Calculus II	
	MATH 241 Calculus IV	➔	MATH 2263 Calculus III	
	Select from the following: CSC 232 Computer Pgrm for Scientists & Engineers CSC 234 C and Unix MATH 206 Linear Algebra I MATH 244 Linear Analysis I STAT 218 Applied STATS for Life Science STAT 312 Statistical Methods for Engineers		Select from the following: CSC 1032 Programming for Scientists & Engineers CSC 234- DISCONTINUED MATH 1151 Linear Algebra MATH 2341 Linear Analysis STAT 1110: Applied Statistical Concepts & Methods STAT 3210 Engineering Statistics	Area not required. Units applied to support course area
	PHYS 141 General Physics I	➔	PHYS 1141 General Physics I	
	PHYS 142 General Physics II	✗	No semester equivalent	Credit applied to overall unit shortage
	PHYS 143 General Physics III	➔	PHYS 1143 General Physics II	
	PHYS Elective (200 level and above)	➔	PHYS Elective (2000 and above)	Not required. Units applied to support courses area



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Chemistry

Advanced Chemistry Electives Non Polymers & Coatings

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	QUARTER COURSE	SEMESTER COURSE or MAPPING	NOTES
CONCENTRATION	BIO/CHEM 308 Genetic Engineering Technology OR CHEM 349 Chemical and Biological Warfare OR ENVE 324 Introduction to Air Pollution OR SCM 360 Select Env. Issues of Calif's Central Coast	BIO/CHEM 3318 Genetic Engineering Technology OR CHEM 3374 Chemical and Biological Warfare OR ENVE 3324 Introduction to Air Pollution OR SCM 3360 Select Env. Issues of Calif's Central Coast	Units applied to advanced electives
	BIO/CHEM 441 Bioinformatics Applications	➔ BIO/CHEM 4451 Bioinformatics Applications	
	BIO/CHEM 475 Molecular Biology Laboratory	➔ BIO 4457/CHEM 4453 Molecular Biology Laboratory	Units applied to extension electives
	CHEM 302 Marine Chemistry	➔ CHEM 3370 Marine Chemistry	
	CHEM 341 Environmental Chemistry: Water Pollution	➔ CHEM 3372 Environmental Chemistry	
	CHEM 372 Metabolism	➔ CHEM 3354 Metabolism	
	CHEM 373 Molecular Biology	➔ CHEM 3356 Genetic Information Processing	
	CHEM 377 Chemistry of Drugs & Poisons	➔ CHEM 4457 Chemistry of Drugs & Poisons	
	CHEM 401 Advanced Undergraduate Research	➔ CHEM 4401 Advanced Undergraduate Research	
	CHEM 405 Advanced Physical Chemistry	✗ No semester Equivalent	Units applied to Advanced Electives



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CHEM 414 Advanced Organic Chemistry	➔ CHEM 4440 Advanced Organic Chemistry- Mechanisms	
CHEM 420 Advanced Organic Chemistry- Synthesis	➔ CHEM 4442 Advanced Organic Chemistry- Synthesis	
CHEM 428 Nutritional Biochemistry	➔ CHEM 4450 Nutritional Biochemistry	
CHEM 432 Physical Biochemistry	➔ CHEM 4452 Physical Biochemistry Methods & Applications	
CHEM 444 Polymers & Coatings I	➔ CHEM 4480 Polymer Synthesis and Characterization	
CHEM 445 Polymers & Coatings II	✗ No semester equivalent	Units applied to Advanced Electives
CHEM/MATE 446 Surface Chemistry of Materials	➔ CHEM 4486 Surface Chemistry of Materials	
CHEM 447 Polymers & Coatings Laboratory I	➔ CHEM 4481 Polymer Synthesis and Characterization Laboratory	
CHEM 448 Polymers & Coatings Laboratory II	✗ No semester equivalent	Content combined with CHEM 4481; Units applied to Advanced Electives
CHEM 449 Polymers & Coatings Internship	➔ CHEM 4487 Polymers & Coatings Internship	
CHEM 450 Polymers & Coatings III	➔ CHEM 4482 Coatings and Formulations	Units applied to Advanced Electives
CHEM 451 Polymers & Coatings Laboratory III	➔ CHEM 4483 Coatings & Formulations Laboratory	Units applied to Advanced Electives
CHEM 454 Functional Polymeric Materials	➔ CHEM 4484 Functional Polymeric Materials	
CHEM 458 Adv. Organic Chemistry - Spectroscopy	➔ CHEM 4444 Advanced Organic Chemistry Laboratory	
CHEM 463 Honors Research	✗ No semester Equivalent	Units applied to Advanced Electives

CONCENTRATION



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Advanced Chemistry Electives Non Polymers & Coatings

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	QUARTER COURSE	SEMESTER COURSE or MAPPING	NOTES
CONCENTRATION	CHEM 465 College Teaching Practicum	➔ CHEM 4415 College Teaching Practicum	
	CHEM 466 Learning Assistant Seminar	➔ CHEM 4404 Learning Assistant Seminar	
	CHEM 470 Selected Advanced Topics	➔ CHEM 4470 Special Advanced Topics	
	CHEM 474 Protein Techniques Laboratory	➔ CHEM 4454 Protein Techniques	Credit applied to extension electives
	CHEM 471 Selected Advanced Laboratory	➔ CHEM 4471 Special Advanced Laboratory	
	CHEM 477 Biochemical Pharmacology	✗	Units applied to Advanced Electives
	CHEM 485 Cooperative Education Experience	➔ CHEM 4485 Cooperative Education Experience-Part Time	
	CHEM 495 Cooperative Education Experience	➔ CHEM 4495 Cooperative Education Experience-Full Time	
	SCM 302/ENGR 322 Learn by Doing Lab Teaching Practicum	➔ SCM 302/ENGR 3302 The Learn by Doing Lab Teaching Practicum	



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Polymers & Coatings Concentration

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CONCENTRATION	CHEM 444 Polymers & Coatings 1	➔	CHEM 4480 Polymer Synthesis and Characterization	
	CHEM 445 Polymers & Coatings II	✗	DISCONTINUED	Content merged into CHEM 4480 Polymer Synthesis and Characterization
	CHEM 446 Surface Chemistry of Materials	➔	CHEM 4486 Surface Chemistry of Materials	
	CHEM 447 Polymers & Coatings Laboratory I	➔	CHEM 4481 Polymer Synthesis and Characterization Laboratory	
	CHEM 448 Polymers & Coatings Laboratory II	✗	DISCONTINUED	Content merged into CHEM 4481 Polymer Synthesis & Characterization Laboratory
	CHEM 450 Polymers & Coatings III	➔	CHEM 4482 Coatings and Formulations	
	Select One CHEM 449 Polymers & Coatings Internship OR CHEM 451 Polymers & Coatings Laboratory III	➔	CHEM 4487 Polymers & Coatings Internship OR CHEM 4483 Coatings and Formulations Laboratory	



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