


2024-2025 BSChE Chemical Engineering Curriculum (chme.nmsu.edu)



total cr hrs
124

freshman	CHEM 1215/1216 General Chem I	4	Area VI Creative & Fine Arts	3		CHME 101 Intro CHME calcs	2	ENGL 1110G Rhetoric/Composition	4	MATH 1511G Calculus I	4	17	
	CHEM 1225/1226 General Chem II	4	PHYS 1310G Engr Physics I	3		PHYS 1310L Engr Physics Lab I	1	CHME 102 Material Balances	2	COMM 1115G Oral Communication	3	MATH 1521G Calculus II	4
sophomore	CHEM 313 Organic Chem I	3	PHYS 1320G Engr Physics II	3	PHYS 1320L Engr Physics Lab II	1	CHME 201 Energy Balances	3	ENGL 2210G Technical Writing	3	MATH 2530G Calculus III	3	16
	CHEM 314 Organic Chem II	3	Get Involved! aiche.nmsu.edu		CHME 303 Thermodynamics	4	CHME 305 Fluid Flow	3	I E 311 Engr Data Analysis	3	MATH 3160 Differential Eqns	3	16
junior	CHEM 315 Organic Chem Lab	2	CHEM 433 Physical Chem	3	CHME 361 Engr Materials	3	CHME 306 Heat/Mass Transfer	4	CHME 323L Transport/Instrument Lab	2	CHME 392 Numerical Methods	3	15 or 17
	CHME Elective Approved Elective	3	Area IV Social/Behavioral Sci	3	CHME 352L Unit Ops Simulation	2	CHME 307 Staged Operations	3	OR CHME 323L Transport/Instrument Lab	2	CHME 341 Chem Reaction Engr	3	14 or 16*
senior	I E 365 Quality Control	3	CHME 448 Industrial Safety	3	Need an elective for a minor?		CHME 412 Dynamics/Control	3	CHME 423L Unit Ops Lab	2	CHME 452 Engr Economics	3	12 or 14*
	VWW Viewing a Wider World	3	Area V Humanities	3	CHME 455L Plant Simulation	1	CHME Elective Approved Elective	3	OR CHME 423L Unit Ops Lab	2	CHME 455 Chem Plant Design	3	13 or 15*

Courses in this template are ordered to assure prerequisite and corerequisite courses are satisfied. Students who take courses in an order that differs from this template are responsible to consult an advisor about the consequences of failing to complete some courses in the timeframe shown, particularly those courses in the core CHME curriculum and the associated science fundamentals. Detailed prerequisite requirements for all courses can be found in the NMSU Undergraduate Catalog in the Course Descriptions section. A CHME prerequisite map is found on chme.nmsu.edu at [/Academics/Undergraduate/](http://Academics/Undergraduate/).

3 credits of the VWW institutional requirement are satisfied by 9-credit hour rule (CHEM 313, 314, and 433 found in the "required courses" section of the undergraduate catalog.

CHME 323L may be taken either semester; CHME 423L may be taken either semester.

* Students may need to take an additional elective these semesters to maintain the minimum 15 credits for scholarship eligibility.

