Chemical Engineering Curriculum Catalog Years 2023+

First-Year Fall Semester Credits First-Year Spring Semester	Credits
CHEM 1127Q: General Chemistry 4 CHEM 1128Q: General Chemistry II	4
MATH 1131Q: Calculus I 4 MATH 1132Q: Calculus II	4
ENGR 1000: Orientation to Engineering 1 ENGR 1166: Foundations of Engineering	3
CSE 1010: Intro to Computer Programming 3 Elective/GenEd Requirement	3
ENGL 1007: Academic Writing/First-Year Writing 4 Elective/GenEd Requirement	3
16	17
	0
Sophomore Year Fall Semester Credits Sophomore Year Spring Semester	Credits
MATH 2110Q: Multivariable Calculus 4 CHEM 2444: Organic Chemistry II	3
PHYS 1501Q: Engineering Physics I 4 PHYS 1502Q: Engineering Physics II	4
CHEM 2443: Organic Chemisry I 3 MATH 2410Q: Differential Equations CHEG 2103: Intro to Chemical Engineering 3 CHEG 2111: Thermodynamics I	3
	3
Elective/GenEd Requirement 3 CHEM 2446: Organic Chemistry Lab 17 CHEG 2201: CBE Professional Skills I	1
	1
Elective/GenEd Requiement	3
	18
Junior Year Fall Semester Credits Junior Year Spring Semester	Credits
CHEG 3112: Thermodynamics II 3 CHEG 3240: Junior Design and Process Safety	
CHEG 3120: Transport Phenomena I 4 CHEG 3220: Transport Phenomena II	4
ENGR 2000+: ENGR Elective 3 CHEG 3151: Process Kinetics	3
Elective/GenEd Requirement 3 CHEG 3201: CBE Professional Skills II	1
Elective/GenEd Requirement 3 Elective/GenEd Requirement	3
16 Elective/GenEd Requirement	3
	17
Senior Year Fall Semester Credits Senior Year Spring Semester	Credits
CHEG 4139 or CHEG 4144: Experimental or In Silico Senior Lab ² 2 CHEG 4139 or CHEG 4144: Experimental or In	Silico Senior Lab ² 2
CHEG Elective ³ 3 CHEG Elective ³	3
CHEG 4140: Capstone Design I 3 CHEG 4143W: Capstone Design II	3
CHEG 4145: CHEG Analysis 3 Elective/GenEd Requirement	3
Elective/GenEd Requirement 3 CHEG 4147: Process Control	3
CHEG 4101: CBE Professional Skills III 1	14
15	
Second Language Requirement:	
Environmental Literacy Requirement:(E)	
Writing Requirement outside of CHEG:(W)	

¹Organic Chemistry Lab for CHEG students is only offered during the Spring

²Senior Lab: Students must take 2 semesters: CHEG 4139 and CHEG 4144

³Six Credits of CHEG Electives are satisfied by any 2000 level or higher CHEG course. Research with CHEG faculty (CHEG 4989) is commonly used to satisfy this area. Only 6 credit of CHEG 4989 may be applied toward degree requirements.