

## 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

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 Chemistry I	3	MATH 2410Q: Differential Equations	3
CHEG 2103: Intro to Chemical Engineering	3	CHEG 2111: Thermodynamics I	3
Elective/GenEd Requirement	3	CHEM 2446: Organic Chemistry Lab <sup>1</sup>	1
	17	CHEG 2201: CBE Professional Skills I	1
		Elective/GenEd Requirement	3
			18

Junior Year Fall Semester	Credits	Junior Year Spring Semester	Credits
CHEG 3112: Thermodynamics II	3	CHEG 3240: Junior Design and Process Safety	3
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 <sup>2</sup>	2	CHEG 4139 or CHEG 4144: Experimental or In Silico Senior Lab <sup>2</sup>	2
CHEG Elective <sup>3</sup>	3	CHEG Elective <sup>3</sup>	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)

<sup>1</sup>Organic Chemistry Lab for CHEG students is only offered during the Spring

<sup>2</sup>Senior Lab: Students must take 2 semesters: CHEG 4139 and CHEG 4144

<sup>3</sup>Six 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.