

**Chemical Engineering**  
Catalog Year 2024-2025

*Note: This is a recommended sequence and shifts are likely to occur due to prerequisite completion and course availability.*

Semester One	Semester Two
CHEM 1127Q: General Chemistry I (4 credits)	CHEM 1128Q: General Chemistry II (4 credits)
MATH 1131Q: Calculus I (4 credits)	MATH 1132Q: Calculus II (4 credits)
CSE 1010: Intro to Computing for Engineers (3 credits)	ENGR 1166: Foundations of Engineering (3 credits)
ENGL 1007: Writing and Composition (4 credits)	Gen Ed (3 credits)
	Gen Ed (3 credits)
<b>15 credits</b>	<b>17 credits</b>

Semester Three	Semester Four
PHYS 1501Q: Physics for Engineers I (4 credits)	PHYS 1502Q: Physics for Engineers II (4 credits)
MATH 2110Q: Multivariable Calculus (4 credits)	MATH 2410Q: Elem. Differential Equations (3 credits)
CHEG 2103: Intro to Chemical ENGR (3 credits)	CHEG 2111: Thermodynamics 1 (3 credits)
CHEM 2443: Organic Chemistry 1 (3 credits)	CHEM 2444: Organic Chemistry II (3 credits)
PHIL 1104: Philosophy & Social Ethics (CA 1) (3 credits)	CHEM 2446: Organic Chemistry Lab (1 credit)
	Gen Ed (3 credits)
<b>17 credits</b>	<b>17 credits</b>

Semester Five	Semester Six
CHEG 3112: Thermodynamics II (3 credits)	CHEG 3124: Heat & Mass Transfer (3 credits)
CHEG 3123: Fluid Mechanics (3 credits)	CHEG 3151: Process Kinetics (3 credits)
CHEG 3145: Chemical Engineering Analysis (3 credits)	CHEG 3128: Junior Design Lab (2 credits)
CHEG Elective (3 credits)	Professional/Engineering Requirement (3 credits)
Gen Ed (3 credits)	Gen Ed/Free Elective* (3 credits)
Free Elective* (3 credits) MATH 2210Q recommended	
<b>18 credits</b>	<b>14 credits</b>

Semester Seven	Semester Eight
CHEG 4140: Capstone Design 1 (3 credits)	CHEG 4143W: Capstone Design II (3 credits)
CHEG 4139: Senior Laboratory (2 credits)	CHEG 4147: Process Dynamics & Control (3 credits)
CHEG Elective (3 credits)	Professional/Engineering Requirement (3 credits)
Professional/Engineering Requirement (3 credits)	Free Elective* (3 credits)
Free Elective* (3 credits)	Free Elective* (4 credits)
<b>14 credits</b>	<b>16 credits</b>

\*as needed to reach total degree credits

*See reverse for important general education and major specific information.*

**Total Credits: 128**