

CHEMICAL ENGINEERING (BS)

Program Requirements

Code	Title	Hours
Required General Education Courses		
PHIL-3250	Ethics	3
THEO-2000	Christian Moral Life	3
Science and Mathematics		
CHEM-1200 & CHEM-1201	General Chemistry I Lecture and General Chemistry I Laboratory ¹	4
CHEM-1210 & CHEM-1211	General Chemistry II Lecture and General Chemistry II Lab ¹	4
CHEM-2200 & CHEM-2201	Organic Chemistry I Lecture and Organic Chemistry I Lab ¹	4
CHEM-2210	Organic Chemistry II Lecture ¹	3
	Advanced Chemistry Elective	3
MATH-1300	Calculus I ¹	4
MATH-1350	Calculus II ¹	4
MATH-2300	Calculus III ¹	4
MATH-3100	Differential Equations	3
PHYS-2100 & PHYS-2101	Classical Physics I and Classical Physics I Lab	4
PHYS-2110 & PHYS-2111	Classical Physics II and Classical Physics II Lab	4
Engineering Courses		
CENG-2010	Chemical Engineering Fundamentals ²	3
CENG-3050	Separations	3
CENG-3250	Chemical Engineering Thermodynamics	3
CENG-3300	Unit Operations	3
CENG-3350	Chemical Engineering Laboratory I	2
CENG-4080	Chemical Process Dynamics & Control	3
CENG-4210	Reactor Design	3
CENG-4350	Chemical Engineering Laboratory II	3
CENG-4600	Plant Design I	3
CENG-4610	Plant Design II	3
CENG-4820	Bioprocess Engineering	3
CENG-COMP	Senior Comprehensive Exam	0
EENG-2060	Linear Circuit Analysis I	3
ENGR-1200	Introduction to Engineering	2
ENGR-3150	Statistical Analysis of Data	3
ENGR-3170	Engineering Economy & Society	3
ENGR-3250	Thermodynamics	3
ENGR-3410	Thermofluids Laboratory	2
ENGR-3500	Materials Science	3
ENGR-3600	Heat & Mass Transfer	3
ENGR-4840	Quality Engineerg	3
	Chemical Engineering Electives	6
Total Hours		110

¹ These courses must be completed with a "C-" or better.

² These courses must be completed with a "C+" or better to proceed to the next class in Chemical Engineering.

Courses required for the major may be repeated but students must pass all required courses on their first or second attempt.

Chemical Engineering Electives

CENG-3000+ courses not already utilized for the chemical engineering major.

Advanced Chemistry Electives

Any CHEM-3000+ course not already utilized for the chemical engineering major.