

# Minor in Chemical Engineering

---

For the minor, 16–18 semester hours are required, excluding prerequisite courses. Students outside the Department of Chemical Engineering who wish to minor in Chemical Engineering must complete the following:

Code	Title	Hours
<b>Prerequisite Courses</b>		
CHEM 122 & CHEM 123	General Chemistry I Lecture and General Chemistry Laboratory I or CHEM 1 Honors and Majors General and Analytical Chemistry I	5
CHEM 342	Physical Chemistry I or CHE 301 Chemical Engineering Thermodynamics	3
CS 109	C/C ++ Programming for Engineers with MatLab or CHE 205 Computational Methods in Chemical Engineering	3
MATH 180	Calculus I	4
MATH 181	Calculus II	4
MATH 210	Calculus III	3
MATH 220	Introduction to Differential Equations	3
PHYS 141	General Physics I (Mechanics)	4
PHYS 142	General Physics II (Electricity and Magnetism)	4
Total Hours		33

Code	Title	Hours
<b>Required Courses</b>		
CHE 210	Material and Energy Balances	4
CHE 301	Chemical Engineering Thermodynamics	3
CHE 321	Chemical Reaction Engineering	3
CHE 311	Transport Phenomena I or ME 211 Fluid Mechanics I	3-4
Select one of the following:		3-4
CHE 312	Transport Phenomena II	
ME 321	Heat Transfer	
CHE 313	Transport Phenomena III	
Total Hours		16-18