

MINOR IN CHEMICAL AND BIOLOGICAL ENGINEERING

Requirements Effective Spring 2026

Additional coursework may be required due to prerequisites.

Students must satisfactorily complete the total credits required for the minor. Minors and interdisciplinary minors require 12 or more upper-division (300- to 400-level) credits.

Code	Title	Credits
Lower Division:		
CBE 201	Material and Energy Balances	3
CBE 205	Fundamentals of Biological Engineering	3
CBE 210	Thermodynamic Process Analysis	3
Upper Division:		
CBE 320	Chemical and Biological Reactor Design	3
CBE 330	Process Simulation	3
CBE 331	Momentum Transfer and Mechanical Separations	3
Select one course from the following:		3-4
CBE 310	Molecular Concepts and Applications	
CBE 332	Heat and Mass Transfer Fundamentals	
CBE 340	Statistics for CBE Applications	
CBE 500	Chem & Biological Engineering Fundamentals	
CBE 504/ BIOM 504	Fundamentals of Biochemical Engineering	
CBE 522/ BIOM 522	Bioseparation Processes	
CBE 540/CIVE 540	Advanced Biological Wastewater Processing	
CBE 560	Engineering of Protein Expression Systems	
Program Total Credits:		21-22