

MINOR IN CHEMICAL AND BIOLOGICAL ENGINEERING

Requirements Effective Spring 2026

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.

Additional coursework may be required due to prerequisites.

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