

Department of Chemical & Biological Engineering (CBE)
Bachelor of Science in Chemical Engineering (B.S.Ch.E.)

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
101 Intro to CBE CBE	102 Addressing Societal Challenges Using CBE CBE	251 Chem Process Calculations	253 Chemical & Biological Engr Computing	311 Intro to Transport Phenomena	312 Unit Operations	418L ChemE Lab III	419L ChemE Lab IV
		302 ChemE Thermodynamics		317 Numerical Methods for CBE	321 Mass Transfer	454 Process Dynamics and Control	451 Senior Seminar
1512		2530		318L ChemE Lab I	319L ChemE Lab II	461 Chemical Reactor Engineering	494L Adv ChemE Design
1522 Calculus		316 Applied Ordinary Differential Equations					
Mathematics (MATH)							
(1215 or 1217)/1215L (1225 or 1227)/1225L Gen Chem for STEM Majors or Principles of Chem		301/303L Organic		2110C Principles of Biology: Cellular & Molecular Lecture & Lab	371 Intro to Materials Engineering	486 Intro to Statistics & Design of Experiments	491* Undergraduate Research
Chemistry (CHEM)		302					
		312 Physical Chemistry					
		1310 1311* Calculus-Based Physics Problems in Calculus-Based Physics				213 Lab Electronics	493L ChemE Design
		Physics (PHYS)				CBE	
Humanities						Technical Elective	
ENGL 1120 Composition II		Communication					
General Education (GEN ED)							
				Social & Behavioral Sciences		350 Engineering Economy	
				General Education (GEN ED)		Technical Elective	
						Civil Engineering (CE)	
						Arts & Design	
						Second Language	
						General Education (GEN ED)	

With the exception of CBE 213 all CBE courses listed on this document are only offered during the semester in which they are listed here.

*Recommended, not required