CHEMICAL & BIOLOGICAL ENGINEERING

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**		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 Numerial Methods for CBE	321 Mass Transfer	454 Process Dynamics and Control	451 Senior Seminar
1512	1522 Calculus	2530	316 Applied Ordinary Differential Equations	318L ChemE Lab I	319L ChemE Lab II	461 Chemical Reactor Engineering	494L Adv ChemE Design
Mathematics (MATH)							
(1215 or 131)/1215L Gen Chem for STEM Majors or Principles of Chem	(1225 or 132)/1225L	301/303L Organic	302	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)				**Biology (BIOL)**			
1310 1311* Calculus-based Physics Problems in Calculus-based Physics	1320 1321*		312 Physical Chemistry		213 Lab Electronics	493L ChemE Design	Technical Elective
Physics (PHYS)					**CBE**		
Humanities				Social & Behavioral Sciences	350 Engineering Economy	Technical Elective	Arts & Design
ENGL 1120 Composition II	Communication			**General Education (GEN ED)**	**Civil Engineering (CE)**		Second Language
General Education (GEN ED)							**General Education (GEN ED)**

With the exception of CBE 101 all CBE courses listed on this document are only offered during the semester in which they are listed here.

*Recommended, not required