

Recommended Course Sequence

Freshman year, First semester, 15 credits

Course number	Course Name	Prerequisites	Cr
Chem 109	<i>General and Analytical Chemistry</i>		5
Math 221	<i>Calculus and Analytic Geometry</i>		5
Communications Elective			2
Liberal Studies Elective			3

Freshman year, Second Semester, 17 credits

Chem 329	<i>Fundamentals of Analytical Science</i>	Chem 109	4
Math 222	<i>Calculus and Analytic Geometry</i>	Math 221	5
Physics 201	<i>General Physics</i>	Math 221	5
Liberal Studies Elective			3

Sophomore year, First semester, 17 credits

CBE 250	<i>Process Synthesis</i>	Chem 329 or Chem 343, or con reg	3
Chem 343	<i>Introductory Organic Chemistry</i>	Chem 104 or 109	3
Math 234	<i>Calculus -- Functions of Several Variables</i>	Math 222	3
Physics 202	<i>General Physics</i>	Physics 201 or equiv.	5
Zool 153	<i>Introductory Biology</i>		3

Sophomore year, Second Semester, 17 credits

CBE 255	<i>Introduction to Chemical Process Modeling</i>	Math 319 or 320 or con reg	3
CBE 310	<i>Chemical Process Thermodynamics</i>	Math 234; Physics 201 or equiv; CBE 255 or equiv or con reg; CBE 250 with grade of C or better	3
Chem 344	<i>Introductory Organic Chemistry Lab</i>	Chem 345 or con reg	2
Chem 345	<i>Intermediate Organic Chemistry</i>	Chem 343 with grade of C or better	3
Math 319 or Math 320	<i>Techniques in Ordinary Differential Equations or Linear Algebra and Differential Equations</i>	Math 222	3
Stat 324	<i>Intro Applied Statistics for Engineers</i>	Math 222	3

Recommended Course Sequence (Continued)

Junior year, First semester, 16 credits

CBE 320	<i>Introductory Transport Phenomena</i>	Physics 201, Math 319 or 320, CBE 250 with grade of C or better	4
CBE 311	<i>Thermodynamics of Mixtures</i>	CBE 310	3
Adv Biology Elective			3
Liberal Studies Elective			3
Professional Breadth Elective			3

Junior year, Second Semester, 16 credits

CBE 324	<i>Transport Phenomena Lab</i>	CBE 310 & 320 or con reg; Stat 324	3
CBE 326	<i>Momentum and Heat Transfer Operations</i>	CBE 310 & 320 with grades of C or better	3
Chem 562	<i>Physical Chemistry</i>	CBE 310, Physics 202	3
Liberal Studies Elective			4
Professional Breadth Elective			3

Senior year, First semester, 15 credits

CBE 426	<i>Mass Transfer Operations</i>	CBE 311 & 320	3
CBE 430	<i>Chemical Kinetics and Reactor Design</i>	CBE 311 & 320	3
CBE 440 or CBE 540 or CBE 544 or CBE 547	<i>Chemical Engineering Materials Polymer Science and Technology Processing of Electronic Materials Colloid and Interface Science</i>	Chem 345 Chem 345; CBE 326 & 430, or con reg; Stat 324 CBE 440 or MS&E 351 or ECE 335 Chem 561 or 562 or equiv,	3
CBE Elective			3
Liberal Studies Elective			3

Senior year, Second Semester, 15 credits

CBE 450	<i>Process Design</i>	CBE 326, 426 & 430	3
CBE 470	<i>Process Dynamics and Control</i>	CBE 326; CBE 430 or con reg	3
CBE Elective			3
Free Elective			6

Senior year, Summer session, 5 credits

CBE 424	<i>Operations and Process Lab</i>	CBE 324, 326, 426 & 430	5
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