



# College of Science, Engineering and Technology

## Chemistry

### Biochemistry Option

#### Suggested Curriculum Sequence

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<b>Freshman Year<sup>a</sup></b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CHE 099	Freshman Orientation	1	CHE 202	General Chemistry and Qualitative Analysis	5
CHE 201	General College Chemistry	5	CIV 102	World Civilizations & Cultures II	3
ENG 101	Composition	3	ENG 102	Composition and Research	3
MAT 250	Calculus and Analytic Geometry I	5	MAT 308	Calculus and Analytic Geometry II	5
CIV 101	World Civilizations & Cultures I	3			

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<b>Sophomore Year</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CHE 305	Analytical Chemistry	5	CHE 320	Organic Chemistry II	3
CHE 312	Organic Chemistry I	5	PHY 255	Electricity, Magnetism and Light	4
PHY 235	Mechanics, Heat Wave Motion	4	PHY 256	Electricity, Magnetism and Light Lab	1
PHY 236	Mechanics, Heat Wave Motion Lab	1	COM 161	Introduction to Public Speaking	3
MAT 309	Calculus and Analytic Geometry III <sup>b</sup>	4	BIO 221	General Zoology	4

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<b>Junior Year<sup>b</sup></b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CHE 410	Physical Chemistry I <sup>b</sup>	4	CHE 420	Physical Chemistry II	4
HUM 211	The Western Humanities Tradition: Continuity	3	BIO 300	Introductory Microbiology	4
CSC 232	Visual Basic I	4	_____	_____	_____
CHE 325	Organic Chemistry II Lab	3	_____	_____	_____
BIO 222	General Botany	4	_____	_____	_____

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<b>Senior Year</b>					
<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CHE 530	Fundamentals of Biochemistry I	3	CHE 540	Fundamentals of Biochemistry II	3
BIO 333	Genetics	4	CHE 537	Experimental Biochemistry	3
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<sup>a</sup>Schedule electives to satisfy university studies requirements. A total of 122 semester hours is required for the baccalaureate degree.

<sup>b</sup>CHE 403 and three additional hours of limited electives may substitute for CHE 410 and CHE 420. MAT 250 only is required if CHE 403 is taken, however PHY 235-256 require MAT 308 as a prerequisite.

<sup>c</sup>Biology minor required, including BIO 221, 222, 300, 333; remaining courses selected from BIO 502, 513, 533, 534.

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**For More Information Contact:**