

B.S. in Chemistry and a Concentration in Biochemistry		
MAJOR REQUIREMENTS/CHEMISTRY: 43 Credits		Credits
	CE111: General Chemistry I	3.0
	CE111L: General Chemistry I Lab	1.0
	CE112: General Chemistry II	3.0
	CE112L: General Chemistry II Lab	1.0
	CE221: Quantitative Analysis	2.0
	CE221L: Quantitative Analysis Lab	2.0
	CE241: Organic Chemistry I	3.0
	CE241L: Organic Chemistry I Lab	2.0
	CE242: Organic Chemistry II	3.0
	CE242L: Organic Chemistry II Lab	2.0
	CE310: Biochemistry	4.0
	CE311: Chemical Literature	1.0
	CE322: Instrumental Analysis	4.0
	CE371: Biophysical Chemistry: Thermodynamics, Dynamics, and Chemical Kinetics	3.0
	CE371L: Biophysical Chemistry: Thermodynamics, Dynamics, and Chemical Kinetics Lab	1.0
	CE372: Physical Chemistry: Intro. To Spectroscopy and Quantum Chemistry	3.0
	CE372L: Physical Chemistry: Intro. To Spectroscopy and Quantum Chemistry Lab	1.0
	CE410: Seminar	1.0
	CE452: Advanced Organic Chemistry	3.0
REQUIREMENTS OUTSIDE OF MAJOR: 29 Credits		
	MA125: Calculus with Analytic Geometry I	4.0
	MA126: Calculus with Analytic Geometry II	4.0
	PH211: General Physics and Calculus I	4.0
	PH211L: General Physics with Calculus I Lab	1.0
	PH212: General Physics with Calculus II	4.0
	PH212L: General Physics with Calculus II Lab	1.0
	BY110: Introduction to Cell and Molecular Biology	4.0
	BY410: Molecular Biology	3.0
	Choose one of the following: BY223: Microbiology or BY423: Genetics	4.0
*FREE ELECTIVES: 14 Credits		Credits
	_____	14.0

<p>* By careful choice of electives, the B.S. in Chemistry and a Concentration in Biochemistry can meet the requirements for American Chemical Society Certification of the degree. Students wishing to graduate with an ACS certified degree must take CE401, CE401L and CE4xx (400 level elective, 3 credits) for a total of 7 credits and apply to the Department Chair. Please refer to the curriculum chart for the B.S. in Chemistry and Concentration in Advanced Chemistry option.</p>		

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GENERAL EDUCATION REQUIREMENTS: 42 Credits		Credits
English	EN101: College English I	3.0
	EN102: College English II	3.0
Literature	EN201: Literature I	3.0
	EN202: Literature II	3.0
History	HS101: Western Civilization In World Perspective I	3.0
	HS102: Western Civilization In World Perspective II	3.0
Information Technology	IT102: Information Technology for Scientists	3.0
Critical Discourse	HU201: Critical Discourse	3.0
Science	Fulfilled in Major Requirements	0.0
Mathematics	Fulfilled in Requirements Outside Major	0.0
Social Science	Choose two courses from 2 different disciplines from among the following any 100-level courses in AN, GO, PS, PY, SO; BE201, BE202, GS225.	3.0
		3.0
Aesthetics	AR101: Art Appreciation	3.0
	or MU101: Music Appreciation	
	or TH101: Theater Appreciation	
	or DA101: Dance Appreciation	
Cross Cultural	Two courses chosen from the set of approved courses	3.0
	or 6 credits in the same foreign language	3.0
Perspectives	PRxxx	3.0
Experiential Education	EX001	0.0
Demonstration of Writing Proficiency	WP001	0.0
Writing Intensive Requirement	Two courses as specified by the department in which the major is housed.	0.0
		0.0

TOTAL CREDITS FOR B.S. IN CHEMISTRY AND A CONCENTRATION IN BIOCHEMISTRY = 128.0

NOTES:

* 58 credits must be completed at the 200 level or higher.