

B.S. in Chemistry and a Concentration in Chemical Physics		
MAJOR REQUIREMENTS/CHEMISTRY: 39 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
	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
	CE475: Computational Chemistry and Molecular Modeling	3.0
REQUIREMENTS OUTSIDE OF MAJOR: 31 Credits		
	MA125: Calculus with Analytic Geometry I	4.0
	MA126: Calculus with Analytic Geometry II	4.0
	MA211: Differential Equations	3.0
	MA225: Calculus with Analytic Geometry III	4.0
	PH211: General Physics and Calculus I	4.0
	PH211L: General Physics and Calculus I Lab	1.0
	PH212: General Physics and Calculus I	4.0
	PH212L: General Physics with Calculus II Lab	1.0
	PH301: Modern Physics	3.0
	PH302: Applied Physics	3.0
*FREE ELECTIVES: 16 Credits		Credits
	_____	16.0

<p>*By careful choice of electives, the B.S. in Chemistry with a Concentration in Chemical Physics can meet the requirements of the American Chemical Society certification of the degree. Students wishing to graduate with an ACS certified degree must take CE310, CE401, CE401L, and CE452 for a total of 11 credits, and apply to the department chair.</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 CHEMICAL PHYSICS = 128.0		

NOTES:

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