

Bachelor of Science in Chemistry and a Concentration in Chemical Physics		
MAJOR REQUIREMENTS/CHEMISTRY: 32 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
	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
CONCENTRATION REQUIREMENTS/CHEMICAL PHYSICS: 13 Credits		Credits
	CE371: Biophysical Chemistry: Thermodynamics, Dynamics, and Chemical Kinetics	3.0
	CE371L: Biophysical Chemistry: Thermodynamics, Dynamics, and Chemical Kinetics Lab	1.0
	CE475: Computational Chemistry and Molecular Modeling	3.0
	PH301: Modern Physics	3.0
	PH302: Applied Physics	3.0
REQUIREMENTS OUTSIDE MAJOR: 25 Credits		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
FREE ELECTIVES: 22 Credits *		Credits
	_____	22.0
<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: 36 Credits		Credits
First Year Seminar	FY-101: First Year Seminar *(Select Section "CE")	3.0
Reading and Writing	EN101: College Composition I	3.0
	EN102: College Composition II	3.0
Mathematics	Fulfilled in Outside Major Requirements with MA125 or MA126	0.0
Natural Sciences	Fulfilled in Major Requirements with required CE courses	0.0
Literature	3 Credits from courses designated with Course*Type: LIT	3.0
Aesthetics and Creativity	3 Credits from Art, Music, Theatre, or Dance	3.0
Technological Literacy	IT102: Information Technology for Scientists	3.0
Reasoned Oral Discourse	Fulfilled in Major Requirements with required CE 410	0.0
Historical Perspective	3 Credits from courses designated with Course*Type: HS.SV	3.0
Social Science	3 Credits from courses designated with Course*Type: SS.SV	3.0
Historical Perspective/Social Sciences	3 Credits from courses designated with Course*Type: HS.SV	3.0
	or 3 Credits from courses designated with Course*Type: SS.SV	
Interdisciplinary Perspectives	3 Credits from courses designated with Course*Type: ISP	3.0
Cultural Diversity/Global Understanding	3 Credits from courses designated with Course*Type: CD	6.0
	3 Credits from courses designated with Course*Type: GU	
	or 6 Credits from the SAME foreign language	
Experiential Education	One course designated with Course*Type: EX	0.0
Writing Intensive	Two courses from Chemistry (CE) designated with Course*Type: WT	0.0
		0.0

Total Credits for Bachelor of Science in Chemistry and a Concentration in Chemical Physics = 128

NOTES:

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