MAJOR REQUIREMENTS/CHEMISTRY: 33 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	3.0
	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	3.0
	CE322L: Instrumental Analysis Lab	1.0
	CE372: Phys. Chem: Intro. to Spectroscopy & Quantum Chemistry	3.0
	CE372L: Phys. Chem: Intro. to Spectroscopy & Quantum Chemistry La	1.0
	CE410: Seminar	1.0
NCENTRATION REQUIREMENTS/CHEMICAL PHYSICS: 13 Credits		Credits
	CE371: Biophysical Chemistry: Thermodynamics,	3.0
	Dynamics, and Chemical Kinetics	
	CE371L: Biophysical Chemistry: Thermodynamics,	1.0
	Dynamics, and Chemical Kinetics Lab	
	CE475: Computational Chemistry and Molecular Modeling	3.0
	PH301: Modern Physics*	3.0
	PH302: Applied Physics*	3.0
	*Offered in alternative years; care in scheduling is required.	
QUIREMENTS OUTSIDE N	MAJOR: 25 Credits	Credits
QUIREMENTS OUTSIDE N	MAJOR: 25 Credits	Credits
QUIREMENTS OUTSIDE N	MAJOR: 25 Credits  MA125: Calculus with Analytic Geometry I	Credits 4.0
QUIREMENTS OUTSIDE N		
QUIREMENTS OUTSIDE N	MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II MA211: Differential Equations	4.0
QUIREMENTS OUTSIDE N	MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II	4.0 4.0 3.0
QUIREMENTS OUTSIDE N	MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II MA211: Differential Equations	4.0 4.0
QUIREMENTS OUTSIDE N	MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II MA211: Differential Equations MA225: Calculus with Analytic Geometry III	4.0 4.0 3.0 4.0
QUIREMENTS OUTSIDE N	MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II MA211: Differential Equations MA225: Calculus with Analytic Geometry III PH211: General Physics and Calculus I PH211L: General Physics and Calculus I Lab PH212: General Physics and Calculus I	4.0 4.0 3.0 4.0 4.0
QUIREMENTS OUTSIDE N	MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II MA211: Differential Equations MA225: Calculus with Analytic Geometry III PH211: General Physics and Calculus I PH211L: General Physics and Calculus I	4.0 4.0 3.0 4.0 4.0 1.0
	MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II MA211: Differential Equations MA225: Calculus with Analytic Geometry III PH211: General Physics and Calculus I PH211L: General Physics and Calculus I Lab PH212: General Physics and Calculus I PH212: General Physics with Calculus I	4.0 4.0 3.0 4.0 4.0 1.0
QUIREMENTS OUTSIDE N	MA125: Calculus with Analytic Geometry I MA126: Calculus with Analytic Geometry II MA211: Differential Equations MA225: Calculus with Analytic Geometry III PH211: General Physics and Calculus I PH211L: General Physics and Calculus I Lab PH212: General Physics and Calculus I PH212: General Physics with Calculus I	4.0 4.0 3.0 4.0 4.0 1.0

See the curriculum chart for BS in Chemistry and a Concentration in Advanced Chemistry option.

## **Bachelor of Science in Chemistry and a Concentration in Chemical Physics** Credits **GENERAL EDUCATION REQUIREMENTS: 36 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 and BY courses 0.0 3.0 Literature 3 Credits from courses designated with Course\*Type: LIT 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 CE410 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 3 Credits from courses designated with Course\*Type: HS.SV 3.0 Sciences 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 and Global 3 Credits from courses designated with Course\*Type: CD 6.0 Understanding and 3 Credits from courses designated with Course\*Type: GU or 6 Credits from the SAME foreign language or 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

Minimum Credits for Bachelor of Science in Chemistry and a Concentration in Chemical Physics = 128.0

## NOTES:

<sup>\* 58</sup> credits must be completed at the 200 level or higher.