OR REQUIREMENTS/CHEM	MISTRY: 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
	Lab	1.0
	CE410: Seminar	1.0
CENTRATION REQUIREM	ENTS/BIOCHEMISTRY: 22 Credits	Credits
	CE310: Biochemistry & Lab	4.0
	CE371: Biophysical Chemistry: Thermodynamics, Dynamics,	
	& Chemical Kinetics	3.0
	CE371L: Biophysical Chemistry: Thermodynamics, Dynamics,	
	& Chemical Kinetics Lab	1.0
	CE452: Advanced Organic Chemistry	3.0
	BY110: Introduction to Cell and Molecular Biology	4.0
	BY410: Molecular Biology	3.0
Take one of the	BY223: General Microbiology	
following courses:	or BY423: Genetics	4.0
EQUIREMENTS OUTSIDE MAJOR: 18 Credits		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
E ELECTIVES: 19 Credits		Credits
		19.0

CE401L, and apply to the Department Chair. See the curriculum chart for BS in Chem. & Concentration in Adv. Chem. option.

Bachelor of Science in Chemistry and a Concentration in Biochemistry **GENERAL EDUCATION REQUIREMENTS: 36 Credits Credits** 3.0 First Year Seminar FY-101: First Year Seminar *(Select Section "CE") Reading and Writing EN101: College Composition I 3.0 3.0 EN102: College Composition II Mathematics Fulfilled in Outside Major Requirements with MA125 or MA126 0.0 0.0 Fulfilled in Major Requirements with required CE and BY courses Natural Sciences 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 3.0 IT102: Information Technology for Scientists 0.0 Reasoned Oral Discourse Fulfilled in Major Requirements with CE410 3.0 Historical Perspective 3 Credits from courses designated with Course*Type: HS.SV 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 Sciences 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 and Global 3 Credits from courses designated with Course*Type: CD Understanding and 3 Credits from courses designated with Course*Type: GU or 6 Credits from the SAME foreign language or Froeign Language 6.0 0.0 **Experiential Education** One course designated with Course*Type: EX 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 Biochemistry = 128.0

NOTES:

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