Bachelor of Science in Chemistry and a Concentration in Biochemistry		
JOR REQUIREMENTS/CHEMI	STRY: 33 Credits	Credits
	CE-111: General Chemistry I	3.0
	CE-111L: General Chemistry I Lab	1.0
	CE-112: General Chemistry II	3.0
	CE-112L: General Chemistry II Lab	1.0
	CE-221: Quantitative Analysis	3.0
	CE-221L: Quantitative Analysis Lab	2.0
	CE-241: Organic Chemistry I	3.0
	CE-241L: Organic Chemistry I Lab	2.0
	CE-242: Organic Chemistry II	3.0
	CE-242L: Organic Chemistry II Lab	2.0
	CE-311: Chemical Literature	1.0
	CE-322: Instrumental Analysis	3.0
	CE-322L: Instrumental Analysis Lab	1.0
	CE-341: Physical Chemistry I	3.0
	CE-341L: Physical Chemistry I Lab	1.0
	CE-410: Seminar	1.0
NCENTRATION REQUIREMEN	NTS/BIOCHEMISTRY: 24 Credits	Credits
	CE-331: Biochemistry I	3.0
	CE-332: Biochemistry II	3.0
	CE-342: Physical Chemistry II	3.0
	CE-342L: Physical Chemistry II Lab	1.0
	CE-452: Advanced Organic Chemistry	3.0
	BY-110: Introduction to Cell and Molecular Biology	4.0
	BY-410: Molecular Biology	3.0
Та	ke 4 Credits from the Following Courses:	4.0
	BY-223: General Microbiology	
	BY-423: Genetics	
EQUIREMENTS OUTSIDE MAJOR: 18 Credits		Credits
	MA-125: Calculus with Analytic Geometry I	4.0
	MA-126: Calculus with Analytic Geometry II	4.0
	, ,	
	PH-211: General Physics and Calculus I	4.0
	PH-211L: General Physics with Calculus I Lab	1.0
	PH-212: General Physics with Calculus II	4.0
	PH-212L: General Physics with Calculus II Lab	1.0
REE ELECTIVES: 17 Credits		Credits
		17.0

## **MONMOUTH UNIVERSITY CURRICULUM CHAR**:

## Bachelor of Science in Chemistry and a Concentration in Biochemistry Credits **GENERAL EDUCATION REQUIREMENTS: 36 Credits** First Year Seminar FY-101: First Year Seminar \*(Select Section "CE") 3.0 EN-101: College Composition I Reading and Writing 3.0 EN-102: College Composition II 3.0 0.0 Mathematics Fulfilled in Outside Major Requirements with MA-125 or MA-126 0.0 Natural Sciences Fulfilled in Major Requirements with required CE and BY courses 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 IT-102: Information Technology for Scientists 3.0 Reasoned Oral Discourse Fulfilled in Major Requirements with CE-410 0.0 Historical Perspective 3 Credits from courses designated with Course\*Type: HS.SV 3.0 3 Credits from courses designated with Course\*Type: SS.SV 3.0 Social Science 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 6.0 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 Foreign Language 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

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

## NOTES:

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