MONMOUTH UNIVERSITY CURRICULUM CHART

Bachelor of Science in Chemistry and a Concentration in Advanced Chemistry (American Chemical Society Approved Program)*

MAJOR REQUIREMENTS/CHEMISTRY: 50 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
	CE310: Biochemistry and Lab	4.0
	CE311: Chemical Literature	1.0
	CE322: Instrumental Analysis	3.0
	CE322L: Instrumental Analysis Lab	1.0
	CE371: Biophysical Chemistry: Thermodynamics, Dynamics, & Chemical Kinetics	3.0
	CE371L: Biophysical Chemistry: Thermodynamics, Dynamics, & Chemical Kinetics Lab	1.0
	CE372: Phys. Chem: Intro. to Spectroscopy & Quantum Chemistry	3.0
	CE372L: Phys. Chem: Intro. to Spectroscopy & Quantum Chem. Lab	1.0
	CE401: Advanced Inorganic Chemistry	3.0
	CE401L: Advanced Inorganic Chemistry Lab	1.0
	CE410: Seminar	1.0
	CE452: Advanced Organic Chemistry	3.0
3 crs. of CE electives from level 400+	CExxx: *(Except CE499)* _____	3.0

REQUIREMENTS 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

FREE ELECTIVES: 24 Credits		Credits
	_____	24.0
	_____	
	_____	
	_____	
	_____	
	_____	

* Students who complete this program will have their degree certified by the American Chemical Society.

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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 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 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 and Global Understanding or Foreign Language		3 Credits from courses designated with Course*Type: CD	6.0
	and	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

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

NOTES:

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