MONMOUTH UNIVERSITY CURRICULUM CHART

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

MAJOR REQUIREMENTS/CHEMISTRY: 54 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-331: Biochemistry I	3.0
	CE-331L: Biochemistry I Lab	1.0
	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-342: Physical Chemistry II	3.0
	CE-342L: Physical Chemistry II Lab	1.0
	CE-350: Research in Chemistry	3.0
	CE-401: Advanced Inorganic Chemistry	3.0
	CE-401L: Advanced Inorganic Chemistry Lab	1.0
	CE-410: Seminar	1.0
6 Credits of CE electives	Two electives from the following:	6.0
	CE-325: NMR Spectroscopy	
	CE-332: Biochemistry II	
	CE-452: Advanced Organic Chemistry	
	CE-405: Inorganic Methods	
	CE-460: Electrochemical Methods	
	CE-475: Computational Chemistry and Molecular	

INTERDISCIPLINARY REQUIREMENTS: 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

FREE ELECTIVES: 20 Credits	Credits
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+Students who major in this concentration cannot also major in the Biochemistry concentration.

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

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Bachelor of Science in Chemistry and a Concentration in Advanced Chemistry (American Chemical Society Certified Program)*+		
GENERAL EDUCATION REQUIREMENTS: 36 Credits		**Credits**
First Year Seminar	FY-101: First Year Seminar *(Select Section "CE")	3.0
Reading and Writing	EN-101: College Composition I	3.0
	EN-102: College Composition II	3.0
Mathematics	Fulfilled in Interdisciplinary Requirements with MA-125 or MA-126	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	IT-102: Information Technology for Scientists	3.0
Reasoned Oral Discourse	Fulfilled in Interdisciplinary 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 **or** 3 Credits from courses designated with Course*Type: SS.SV	3.0
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 **and** 3 Credits from courses designated with Course*Type: GU **or** 6 Credits from the SAME foreign language	6.0
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 (American Chemical Society Certified Program)*+ = 128.0

NOTES:

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