

# BACHELOR OF SCIENCE IN CHEMISTRY - BUSINESS OPTION

Code	Title	Credit Hours
<b>Wellness Requirement</b>		
APPH 1040	Scientific Foundations of Health	2
	or APPH 10 The Science of Physical Activity and Health	
	or APPH 10 Flourishing: Strategies for Well-being and Resilience	
<b>Core IMPACTS</b>		
<b>Institutional Priority</b>		
CS 1301	Introduction to Computing <sup>9</sup>	3
<b>Mathematics and Quantitative Skills</b>		
MATH 1552	Integral Calculus	4
<b>Political Science and U.S. History</b>		
HIST 2111	The United States to 1877	3
	or HIST 2111 The United States since 1877	
	or INTA 1200 American Government in Comparative Perspective	
	or POL 1101 Government of the United States	
	or PUBP 3000 American Constitutional Issues	
<b>Arts, Humanities, and Ethics</b>		
Any HUM		6
<b>Communicating in Writing</b>		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
<b>Technology, Mathematics, and Sciences</b>		
Lab Science <sup>1</sup>		8
MATH 1551	Differential Calculus	2
MATH 1553	Introduction to Linear Algebra <sup>6</sup>	2
<b>Social Sciences</b>		
Any SS		9
<b>Field of Study</b>		
PHYS 2212	Principles of Physics II	4
CHEM 1212K	Chemical Principles II	4
CHEM 2380	Synthesis Laboratory I	2
MATH 2551	Multivariable Calculus	4
BIOS 1107 & 1107L	Biological Principles and Biological Principles Laboratory	4
<b>Major Requirements</b>		
CHEM 2216 & 2216L	Quantitative Chemical Analysis and Quantitative Chemical Analysis Laboratory	4
	or CHEM 22 Quantitative Chemical Analysis	
CHEM 2311	Organic Chemistry I	3
CHEM 2312	Organic Chemistry II	3
	or CHEM 23 Organic and Bioorganic Chemistry	
CHEM 2601	Professional Skills for Chemists and Biochemists	1
CHEM 3111	Inorganic Chemistry	3
CHEM 3216 & 3216L	Analytical Chemistry Lecture and Analytical Chemistry Laboratory	5

	or CHEM 32 Analytical Chemistry	
CHEM 3380	Synthesis Laboratory II	3
CHEM 3411	Physical Chemistry I	3
CHEM 3412	Physical Chemistry II	3
CHEM 3481	Physical Chemistry Laboratory I	2
<b>Additional Major Required</b>		
Research Experience		2
	CHEM 4695 Undergraduate Internship (Undergraduate Internship for Academic Credit)	
	CHEM 4699 Undergraduate Research <sup>7</sup>	
CHEM 3511	Survey of Biochemistry	3
	or CHEM 45 Biochemistry I	
	or CHEM 45 Biochemistry II	
	or CHEM 35 Biochemistry I	
	or CHEM 35 Biochemistry II	
Upper level Chemistry Electives <sup>3</sup>		3
<b>Business Option</b>		
	ECON 2106 Principles of Microeconomics <sup>2</sup>	
ACCT 2101	Accounting I: Financial Accounting	3
	or MGT 300 Financial and Managerial Accounting	
MGT 3101	Organizational Behavior	3
	or MGT 3150 Principles of Management	
	or PSYC 2220 Industrial/Organizational Psychology	
Select two of the following:		6
	MGT 3062 Financial Management	
	MGT 3078 Finance and Investments	
	MGT 3300 Marketing Management I	
	MGT 3660 International Business	
	MGT 4015 Advanced Managerial Accounting	
	MGT 4026 Financial Reporting and Analysis I	
	MGT 4029 Financial Statement Analysis	
	MGT 4030 International Accounting	
	MGT 4190 Strategic Quality Management and Competitiveness	
	MGT 4191 The Entrepreneurship Forum	
	MGT 4192 Impact Speaker Series Forum	
	MGT 4193 Servant Leadership, Values & Systems	
	MGT 4194 Social Enterprise and Entrepreneurship	
	MGT 4303 Personal Selling and Sales Management	
	MGT 4304 Strategic Brand Management	
	MGT 4307 Strategic Marketing	
	MGT 4335 International Marketing	
	MGT 4610 Law, Management, and Economics	
	MGT 4670 Entrepreneurship	
<b>Free Electives</b>		
Free Electives <sup>4,5,8,10</sup>		9
<b>Total Credit Hours</b>		<b>122</b>

<sup>1</sup> Students are highly encouraged to complete CHEM 1211K and PHYS 2211 for Core IMPACTS Area T. These courses are pre-requisites for other courses in the program.

<sup>2</sup> ECON 2106 will satisfy 3 credit hours of Social Sciences and the ECON requirement for the Business Option

2 *Bachelor of Science in Chemistry - Business Option*

- 3 CHEM 3700 and all CHEM 4XXX and 6XXX allowed except  
CHEM 4695 and CHEM 4699.
- 4 Courses may be applied toward completion of a minor.
- 5 VIP courses may be used only as free electives.
- 6 MATH 1554 or MATH 1564 may be used in place of MATH 1553.
- 7 A maximum of twelve credit hours of CHEM 4699 taken on a letter-  
grade basis are permitted for the degree program
- 8 Up to six hours of CHEM 2699 taken on a letter-grade basis may be  
used as free electives
- 9 CS 1371 may be used with approval of the Associate Chair for  
Academic Programs or their designate
- 10 Pass-fail only allowed for Free Electives.