

BACHELOR OF SCIENCE IN CHEMISTRY - BUSINESS OPTION

Code	Title	Credit Hours
Wellness Requirement		
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	
Core IMPACTS		
Institutional Priority		
CS 1301	Introduction to Computing ⁹	3
Mathematics and Quantitative Skills		
MATH 1552	Integral Calculus	4
Political Science and U.S. History		
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	
Arts, Humanities, and Ethics		
Any HUM		6
Communicating in Writing		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
Technology, Mathematics, and Sciences		
Lab Science ¹		8
MATH 1551	Differential Calculus	2
MATH 1553	Introduction to Linear Algebra ⁶	2
Social Sciences		
Any SS		9
Field of Study		
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
Major Requirements		
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
Additional Major Required		
Research Experience		2
	CHEM 4695 Undergraduate Internship (Undergraduate Internship for Academic Credit)	
	CHEM 4699 Undergraduate Research ⁷	
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 ³		3
Business Option		
	ECON 2106 Principles of Microeconomics ²	
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	
Free Electives		
Free Electives ^{4,5,8,10}		9
Total Credit Hours		122

¹ 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.

² ECON 2106 will satisfy 3 credit hours of Social Sciences and the ECON requirement for the 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.