BACHELOR OF SCIENCE IN CHEMISTRY - GENERAL

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	3			
Institutional P	•			
CS 1301	Introduction to Computing ⁹	3		
Mathematics	and Quantitative Skills			
MATH 1552	Integral Calculus	4		
Political Scien	nce and U.S. History			
HIST 2111	The United States to 1877	3		
or HIST 21	1 7 he United States since 1877			
or INTA 120	American Government in Comparative Perspective			
or POL 110	1Government of the United States			
or PUBP 30	OMmerican Constitutional Issues			
Arts, Humanit	ies, and Ethics			
Any HUM		6		
Communicati	ng in Writing			
ENGL 1101	English Composition I	3		
ENGL 1102	English Composition II	3		
Technology. M	lathematics, 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		
	Chemical Principles II	4		
CHEM 2380	Synthesis Laboratory I	2		
MATH 2551	Multivariable Calculus	4		
BIOS 1107	Biological Principles	4		
& 1107L	and Biological Principles Laboratory			
Major Requirements				
CHEM 2216 & 2216L	Quantitative Chemical Analysis and Quantitative Chemical Analysis Laboratory	4		
or CHFM 2	2Quantitative Chemical Analysis			
CHEM 2311	Organic Chemistry I	3		
CHEM 2312	Organic Chemistry II	3		
	3Organic and Bioorganic Chemistry	Ü		
CHEM 2601	Professional Skills for Chemists and	1		
	Biochemists			
CHEM 3111	Inorganic Chemistry	3		
CHEM 3216 & 3216L	Analytical Chemistry Lecture and Analytical Chemistry Laboratory	5		
or CHEM 32Ahalytical 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 Ma	ajor Requirements	
Research Exp	2	
CHEM 469	5Undergraduate Internship (Undergraduate Internship for Academic Credit)	
CHEM 4699Undergraduate Research ⁷		
CHEM 3511	Survey of Biochemistry	3
or CHEM 4		
or CHEM 45Biochemistry II		
or CHEM 35Biochemistry I		
or CHEM 35Biochemistry II		
Upper level Chemistry Electives ³		6
3000-level Technical Electives ^{2,4}		6
Free Electives	_	
Free Electives ^{4,5,8,10}		12
Total Credit Hours		122

- 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.
- Courses must be 3000-level or higher, and from the Colleges of Computing, Engineering, or Sciences and MATH 2552, SLS 3110, or SLS 3120. - Limit 3 credit hours of CHEM 4699.
- CHEM 3700 and all CHEM 4XXX and 6XXX allowed except CHEM 4695 and CHEM 4699
- Courses may be applied toward completion of a minor.
- VIP courses may be used only as free electives or in place of CHEM 4699 with pre-approval of the Associate Chair for Academic Programs or their designate.
- MATH 1554 or MATH 1564 may be used in place of MATH 1553.
- A maximum of twelve credit hours of CHEM 4699 taken on a lettergrade basis are permitted for the degree program
- 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
- Pass-fail only allowed for Free Electives.