

BACHELOR OF SCIENCE IN BIOCHEMISTRY - 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	3
	or CS 1315 Introduction to Media Computation	
	or CS 1371 Computing for Engineers	
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 2117 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 ³	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 3216 & 3216L	Analytical Chemistry Lecture and Analytical Chemistry Laboratory	5
	or CHEM 32 Analytical Chemistry	

CHEM 3371	Organic Chemistry Laboratory	2
CHEM 3411	Physical Chemistry I	3
CHEM 4511	Biochemistry I	3
	or CHEM 35 Biochemistry I	
CHEM 4512	Biochemistry II	3
	or CHEM 35 Biochemistry II	
CHEM 4521	Biophysical Chemistry	3
CHEM 4581	Biochemistry Laboratory I	3
CHEM 4582	Biochemistry Laboratory II	3
CHEM 4601	Chemistry Seminar	2
Biology Electives		
BIOS 2600	Genetics	3
BIOS 3450	Cell and Molecular Biology	3
Select one of the following:		
BIOS 3380	Microbiology	
BIOS 3450	Cell and Molecular Biology	
BIOS 4015	Cancer Biology and Biotechnology	
BIOS 4340	Medical Microbiology	
BIOS 4400	Human Neuroanatomy	
BIOS 4401	Experimental Design and Statistical Methods in Biological Sciences	
BIOS 4418	Microbial Physiology	
BIOS 4464	Developmental Biology	
BIOS 4570	Immunology	
BIOS 4607	Molecular Biology of Microbes: Disease, Nature, and Biotechnology	
CHEM 4765	Drug Design, Development, and Delivery	
Business Option		
ECON 2106	Principles of Microeconomics ²	
ACCT 2101	Accounting I: Financial Accounting	3
	or MGT 3000 Financial and Managerial Accounting	
MGT 3101	Organizational Behavior	3
	or MGT 315 Principles of Management	
	or PSYC 22 Industrial/Organizational Psychology	
Select two of the following:		
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 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 ^{4,5,6,7}	1
Total Credit Hours	122

Pass-fail only allowed for Free Electives.

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 MATH 1554 or MATH 1564 may be used in place of MATH 1553.

⁴ VIP courses may be used only as free electives.

⁵ A maximum of twelve credit hours of CHEM 4699 taken on a letter-grade 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.

⁶ Courses taken as pass-fail may only be used in free electives.

⁷ Free Electives may be applied toward completion of a minor.