

BACHELOR OF SCIENCE IN BIOLOGY - BUSINESS OPTION

Effective Spring 2020: The School of Biological Sciences has transitioned all undergraduate Biology (BIOL) and Applied Physiology (APPH) courses to Biological Sciences (BIOS) to reflect the merger of the two Schools. Courses under the BIOL- and APPH- may still apply to these requirements. Students should consult with advisors to determine which requirements have been met.

Code	Title	Credit Hours
Wellness		
APPH 1040	Scientific Foundations of Health or APPH 10 The Science of Physical Activity and Health or APPH 10 Flourishing: Strategies for Well-being and Resilience	2
Core A - Essential Skills		
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
MATH 1552	Integral Calculus or MATH 15 Calculus for Life Sciences	4
Core B - Institutional Options		
Select one of the following:		3
CS 1301	Introduction to Computing	
CS 1315	Introduction to Media Computation	
CS 1371	Computing for Engineers	
Core C - Humanities		
Any HUM		6
Core D - Science, Math, & Technology		
PHYS 2211	Introductory Physics I	4
PHYS 2212	Introductory Physics II	4
MATH 1551	Differential Calculus	2
MATH 1553	Introduction to Linear Algebra	2
Core E - Social Sciences		
Select one of the following:		3
HIST 2111	The United States to 1877	
HIST 2112	The United States since 1877	
INTA 1200	American Government in Comparative Perspective	
POL 1101	Government of the United States	
PUBP 3000	American Constitutional Issues	
ECON 2106	Principles of Microeconomics	3
Any SS		6
Core F - Courses Related to Major		
BIOS 1207 & 1207L	Biological Principles for Majors and Biological Principles Project Laboratory or BIOS 1107 Biological Principles & 1107L and Biological Principles Laboratory	4
CHEM 1211K	Chemical Principles I	4
CHEM 1212K	Chemical Principles II	4
CHEM 2311	Organic Chemistry I	3
CHEM 2312	Organic Chemistry II or CHEM 2300 Organic and Bioorganic Chemistry	3

Major Requirements		
BIOS 1208 & 1208L	Organismal Biology for Majors and Organismal Biology Project Laboratory or BIOS 1108 Organismal Biology & 1108L and Organismal Biology Laboratory	4
BIOS 2300	Ecology or BIOS 231 Problems in Ecology	3
BIOS 3450	Cell and Molecular Biology	3
BIOS 2600	Genetics or BIOS 261 Integrative Genetics	3
Biology Lab ¹		2
BIOS 3600	Evolutionary Biology	3
BIOS 4460	Communicating Biological Research	1
Select one of the following:		3
BIOS 4590	Research Project Lab	
BIOS 4690	Independent Research Project	
Non-Biology Courses		
CHEM 2380	Synthesis Laboratory I or CHEM 23 Synthesis Laboratory I	2
Select one from the following:		3
BIOS 3400	Mathematical Models in Biology	
BIOS 4150	Genomics and Applied Bioinformatics	
BIOS 4401	Experimental Design and Statistical Methods in Biological Sciences	
Biology Electives		
Biology Electives at 3000-level or higher ²		15
Business Option		
ACCT 2101	Accounting I: Financial Accounting or MGT 300 Financial and Managerial Accounting	3
Select one of the following:		3
MGT 3101	Organizational Behavior	
MGT 3150	Principles of Management	
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 4028	Financial Analysis and Reporting of Technology Firms	
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 5

Total Credit Hours 122

¹ Students must complete two of following three lab options: BIOS 2301, BIOS 2311, BIOS 2601, BIOS 2611, BIOS 3451.

² Students are required to complete 15 credit hours of Biology electives defined as follows:

- 12 'depth' credit hours must be courses with a 'BIOS' prefix, excluding BIOS 4694-BIOS 4699. Biology Elective courses that are cross-listed with other departments are included in these 12 depth credit hours. Students may also use 3000-,4000-level APPH courses (excluding APPH 4699).
- The remaining 3 'breadth' credit hours can be selected from: other BIOL 3000-level and higher courses, NEUR 3000-level and higher courses, BIOS 4695, BIOS 4697, BIOS 4699 (6 hours maximum of BIOS 4695/4697/4699), VIP courses with a Biological Sciences instructor, and the list of approved courses offered in the other departments (MATH 2000-level and higher courses and APPH, BMED, CHEM, EAS, PHYS, PSYC 3000-level and higher courses; EXCEPT for the following: BMED 4699, BMED 4900-BMED 4903, CHEM 4601, CHEM 4699, CHEM 4901-CHEM 4903, EAS 4651, EAS 4699, EAS 4900, MATH 2699, MATH 4080, MATH 4090, MATH 4699, MATH 4999, NEUR 4699, NEUR 4901, PHYS 4601, PHYS 4602, PHYS 4699, PSYC 4600, PSYC 4601, PSYC 4699, PSYC 4900-PSYC 4910.)