

BACHELOR OF SCIENCE IN BIOLOGY - 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
	or MATH 1555 Calculus for Life Sciences	
Political Science and U.S. History		
HIST 2111	The United States to 1877	3
	or HIST 2112 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		
PHYS 2211	Principles of Physics I	4
PHYS 2212	Principles of Physics II	4
MATH 1551	Differential Calculus	2
MATH 1553	Introduction to Linear Algebra	2
Social Sciences		
Any SS		9
Field of Study		
BIOS 1207 & 1207L	Biological Principles for Majors and Biological Principles Project Laboratory	4
	or BIOS 1100 Biological Principles & 1107L and Biological Principles Laboratory	
CHEM 1211K	Chemical Principles I	4
CHEM 1212K	Chemical Principles II	4
CHEM 2311	Organic Chemistry I	3
CHEM 2312	Organic Chemistry II	3
	or CHEM 2300 Organic and Bioorganic Chemistry	
Major Requirements		
	PHYS 2211 Principles of Physics I ⁵	
	PHYS 2212 Principles of Physics II ⁵	
BIOS 1208 & 1208L	Organismal Biology for Majors and Organismal Biology Project Laboratory	4
	or BIOS 1100 Organismal Biology & 1108L and Organismal Biology Laboratory	

BIOS 2300	Ecology	3
	or BIOS 231 Problems in Ecology	
BIOS 3450	Cell and Molecular Biology	3
BIOS 2600	Genetics	3
	or BIOS 261 Integrative Genetics	
Biology Lab ¹		2
BIOS 3600	Evolutionary Biology	3
BIOS 4460	Behavioral Biology	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	2
	or CHEM 23 Synthesis Laboratory I	
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		
	ECON 2106 Principles of Microeconomics ⁶	
ACCT 2101	Accounting I: Financial Accounting	3
	or MGT 3000 Financial and Managerial Accounting	
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 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 ^{3,4}	5
Total Credit Hours	122

¹ Students must complete two of the three lab categories listed below. Each lab should be taken concurrently with the associated lecture course when possible. If you choose to take all three lab courses, then the 3000-level course may count toward Biology Electives instead of the Core Lab requirement.

- Ecology or Problem-based Ecology lab: BIOS 2301 or BIOS 2311
- Genetics or Integrative Genetics lab: BIOS 2601 or BIOS 2611
- Cell and Molecular Biology lab: BIOS 3451

² Students are required to complete 21 credit hours of Biology electives defined as follows:

- 12 'depth' credit hours must be 3000-level or higher courses with 'BIOS' prefix, excluding BIOS 4694-BIOS 4699. BIOS courses that are cross-listed with other departments are included in these 12 depth credit hours.
- The remaining 3 'breadth' credit hours can be selected from: other BIOS 3000-level or higher courses, BIOS experiential learning courses*, and/or the list of approved courses offered in other departments**.
 - **Experiential learning courses include: BIOS 4695, BIOS 4697, BIOS 4699, and VIP courses (VIP courses must have a Biological Sciences instructor). Additional experiential learning coursework may be used to fulfill Free Electives.
 - **Approved breadth elective courses in other departments include 3000-level or higher BMED, CHEM, EAS, NEUR, MATH, PHYS, PSYC; EXCEPT the following: BMED 4699, BMED 4900-BMED 4903, CHEM 4601, CHEM 4695, CHEM 4699, CHEM 4901-CHEM 4903, EAS 4651, EAS 4699, EAS 4900, MATH 4080, MATH 4090, MATH 4695, MATH 4699, MATH 4999, NEUR 4697, NEUR 4699, NEUR 4901, PHYS 4601, PHYS 4602, PHYS 4699, PSYC 4600, PSYC 4601, PSYC 4695, PSYC 4697, PSYC 4699, PSYC 4900-PSYC 4910. All non-BIOS Experiential Learning courses are excluded from Breadth electives even if not explicitly listed here, including non-BIOS Seminars, Special Problems, Research, Internship, Teaching, and Reading courses.

³ CETL 2000 may apply toward free electives.

⁴ Pass-Fail allowed for Free Electives only. Refer to Institute Rules for maximum Pass-Fail Credits allowed.

⁵ PHYS 2211 and PHYS 2212 are Biology degree requirements and serve as pre requisites for other required courses in the degree. It is highly recommended that students complete these courses as the Lab Sciences courses for Core IMPACTS. If they are not taken as Core IMPACTS courses, they are still required and must be taken for a letter grade and may count towards Free Electives.

⁶ ECON 2106 is required for the Business Option. ECON 2106 will also fulfill 3 hours of Social Science hours.