B.A. IN BIOLOGY

Overview

The B.A. degree is recommended for students involved in interdisciplinary programs and for entrance to those professional schools and specific biological careers not requiring a B.S. degree with a major in Biology.

Curriculum Requirements

Code	Title	Credit Hours
Biology		
BIL 150	General Biology	4
BIL 151	General Biology Laboratory	1
or BIL 153	Introductory Biology/Chemistry Laboratory I	
BIL 160	Evolution and Biodiversity	4
BIL 161	Evolution and Biodiversity Laboratory	1
or BIL 163	Introductory Biology/Chemistry Laboratory II	
BIL Electives		**24**
At least three BIL elective credits must be at the 400-level or higher		
At least one elective course must be a CAPSTONE. Capstone courses can be located in Canelink Class Search under "Additional Search Criteria", subheading "Course Attributes". Seminars in Biology (BIL 374, BIL 375, and BIL 402) are capstones.		
Up to eight credit hours for the major may be selected from courses with a biological topic and numbered 300 or higher in MBE, MES, or MSC.		
Chemistry		
Select one of the following options:		8-15
Option 1:		
CHM 103	Chemistry for the Health Sciences I	
CHM 105	Chemistry for the Health Sciences I (Laboratory)	
CHM 104	Chemistry for the Health Sciences II	
CHM 106	Chemistry for the Health Sciences II (Laboratory)	
Option 2: Choose Chemistry for the BioSciences Three-semester Sequence.		
CHM 121 & CHM 113	Principles of Chemistry and Chemistry Laboratory I	
CHM 221 & CHM 205	Introduction to Structure and Dynamics and Chemical Dynamics Laboratory	
CHM 222 & CHM 206	Organic Reactions and Synthesis and Organic Reactions and Synthesis Laboratory	
Minor		**15**
General Education Requirements		
Written Communication Skills:		
WRS 105	First-Year Writing I	3
ENG 106	Writing About Literature and Culture	3
or WRS 106	First-Year Writing II	
or WRS 107	First-Year Writing II: STEM	
Quantitative Skills:		
MTH 113	Finite Mathematics (These courses fulfill the quantitative skills proficiency requirement.)	3
or MTH 108	Precalculus Mathematics II	
Areas of Knowledge:		
Arts and Humanities Cognate		9
People and Society Cognate		9
STEM Cognate (9 credits) (fulfilled through the major)		
Additional Required Courses		
Language, one 200-level course		3

Electives	26-33
Total Credit Hours	**120**

Suggested Plan of Study

Year One		
Fall		**Credit Hours**
BIL 150	General Biology	4
BIL 151 or 153	General Biology Laboratory or Introductory Biology/Chemistry Laboratory I	1
WRS 105	First-Year Writing I	3
Elective (Usually MTH)		3
Language 101		3
	Credit Hours	**14**
Spring		
BIL 160	Evolution and Biodiversity	4
BIL 161 or 163	Evolution and Biodiversity Laboratory or Introductory Biology/Chemistry Laboratory II	1
ENG 106, WRS 106, or WRS 107	Writing About Literature and Culture or First-Year Writing II or First-Year Writing II: STEM	3
Choose one of the following:		3
MTH 108	Precalculus Mathematics II	
MTH 113	Finite Mathematics	
MTH 130	Introductory Calculus	
Language 102		3
	Credit Hours	**14**
Year Two		
Fall		
BIL Elective (BIL 250 or BIL 255 recommended)		3
CHM 103	Chemistry for the Health Sciences I	3
CHM 105 or 113	Chemistry for the Health Sciences I (Laboratory) or Chemistry Laboratory I	1
Language 2XX		3
Arts and Humanities Cognate Course		3
People and Society Cognate Course		3
	Credit Hours	**16**
Spring		
BIL Elective (BIL 330 or BIL 320 recommended)		3
Course in Minor		3
CHM 104	Chemistry for the Health Sciences II	3
CHM 106 or 205	Chemistry for the Health Sciences II (Laboratory) or Chemical Dynamics Laboratory	1
Arts and Humanities Cognate Course		3
People and Society Cognate Course		3
	Credit Hours	**16**
Year Three		
Fall		
BIL Elective		3
Arts and Humanities Cognate Course (WRI)		3
General Elective (WRI)		3
Course in Minor		3
Elective		3
	Credit Hours	**15**

Spring		
BIL Elective		3
People and Society Cognate Course		3
General Elective (WRI)		3
Course in Minor		3
Elective		3
	Credit Hours	**15**
Year Four		
Fall		
BIL Elective 400 level or higher		3
BIL Elective		3
Course in Minor (WRI)		3
General Elective		3
General Elective		3
	Credit Hours	**15**
Spring		
BIL Elective		3
BIL Elective		3
Course in Minor		3
Course in Minor or Elective		3
General Elective (WRI)		3
	Credit Hours	**15**
	Total Credit Hours	**120**

Student Learning Outcomes

- Students will, through a required core of courses including laboratories, demonstrate a broad knowledge base in Biology.
- Students will, through exposure to biological concepts, inquiry-based learning and biological research, develop the ability to think critically and to formulate and test hypotheses.
- Students will, through courses intensive in research presentations, develop presentation skills sufficient to communicate scientific information to professional and public audiences.
- Students will, through exposure to biological concepts, inquiry-based learning and biological research, develop the ability to think critically and understand proper application of the scientific method.