# **BS: Applied Biology: Human Biology & Health Sciences**

The Human Biology & Health Sciences concentration in Applied Biology prepares students for health-related careers, employment with biomedical science companies, or graduate studies in health sciences. Students select a "tool" in GIS, Commerce, Data Intelligence or Forensic Investigation and earn numerous certifications.

**Department of Biological Sciences** 513-727-3447 bsc@MiamiOH.edu

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### **Plan Recommendation Chart**

	Hours	Course Number or Related Information
Perspectives Area: Formal Reasoning and Communication	9	
Mathematics and Formal Reasoning	3	STA261 Statistics or MTH151 Calculus
English Composition	3	ENG 111 English Composition or ENG 109
Advanced Writing	3	Choice
Perspectives Area: Science and Society	15-16	
Social Sciences #1	3	Choice (PSY111 Intro to Psychology recommended)
Social Sciences #2	3	Choice
Natural Science #1	4	BIO115 Biological Concepts
Lab	2	CHM144 College Chemistry Lab
Natural Science #2	3-4	CHM141/CHM141R College Chemistry
Perspectives Area: Arts and Humanities	6	
Creative Arts	3	Choice
Humanities	3	Choice
Perspectives Area: Global Citizenship	12	
Ethical Citizenship and Leadership	3	Choice
Intercultural Consciousness	3	Choice
Global Inquiry	3	Choice
Intercultural or Global	3	Choice – any Miami Plan Global Inquiry OR Intercultural Consciousness
Signature Inquiry	9	
Signature Inquiry #1	3	Choice
Signature Inquiry #2	3	Choice
Signature Inquiry #3	3	Choice
Knowledge in Action	3+	
Senior Capstone	3	Choice – see faculty advisor
Experiential Learning	0+	BSC 321/340 - see faculty advisor

# 2025-26 Applied Biology-Human/Health Plan of Study

Year One		
Fall Semester		Hours
ENG111 College Composition		3
BIO115 Bio Concepts: Eco, Evo, Genetics		4
CHM141/R College Chemistry I		3-4
CHM144 College Chemistry Lab I		2
PA Creative Arts		3
UNV101 I am MIAMI		1
	Total	16-17

Spring Semester	Hours
BIO116 Bio Concepts: Structure, Function, Cell	4
STA261 Statistics or MTH151 Calculus	4
CHM142 College Chemistry II	3
CHM145 College Chemistry Lab II	2
PA Global Citizenship	3
То	tal 15

#### **Year Two**

Fall Semester	Hours
BIO203 Intro to Cell Biology	3
CHM241/244 Organic Chemistry I w/Lab or CHM231 Fundamentals of Organic Chemistry	3-4
BSC292 Applied Bio Sophomore Seminar	3
MAJOR Tool Course	3
Total	14-15

Spring Semester	ŀ	Hours
BIO206 Evolutionary Biology or BIO209		3
Fundamentals of Ecology		3
CHM242/245 Organic Chemistry II w/Lab or		E
ELECTIVE (if CHM231 is taken)		5
MAJOR Tool Course		3
PA Global Citizenship		3
T	otal	15

#### **Year Three**

Fall Semester		Hours
BIO201 Human Anatomy		4
PHY161 Physics for Life Sciences I w/lab		4
MAJOR Professional Course		3
PA Social Science (PSY111 recommended)		3
PA Advanced Writing		3
	Total	17

Spring Semester	Hours
BIO342 Genetics	3
CHM332/332L Outlines of Biochemistry w/Lab	4
PA Humanities	3
MAJOR Tool Course	3
MAJOR Tool Course	3
To	otal 16

## **Year Four**

Fall Semester	Hours
BIO305 Human Physiology	4
MAJOR Tool Course	3
MAJOR Professional Course	3
PA Global Citizenship	3
PA Social Science	3
Total	16

Spring Semester		Hours
BSC492 Applied Bio Senior Seminar		1
MAJOR Tool Course		3
<b>CAPSTONE</b> (if not completed by Professional		3
Course) or <b>ELECTIVE</b>		
MAJOR Tool Course		3
PA Global Citizenship		3
	Total	13

There is a minimum of 124 hours required to graduate

To finish in eight semesters, take Major or PA courses that also
complete the Signature Inquiry requirement (SI).

MIAMI UNIVERSITY

COLLEGE OF LIBERAL ARTS AND APPLIED SCIENCE

For advising questions, please contact your assigned advisor (see Navigate) or Regional Academic Advising at regadvising@MiamiOH.edu or 513-727-3440