

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

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Tutoring and Learning Center (TLC)

513-785-3139

REGTLC@MiamiOH.edu

Office of Advising

513-727-3440

regadvising@MiamiOH.edu

Career Services & Professional Development

513-727-3390

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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 College Chemistry
Perspectives Area: Arts and Humanities	6	
Creative Arts	3	Choice
Humanities	3	Choice
Perspectives Area: Global Citizenship	12	
Diversity, Equity & Inclusion	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+	Choice (Internship recommended)

2024-25 Applied Biology-Human/Health Plan of Study

Year One

Fall Semester	Hours	Spring Semester	Hours
ENG111 College Composition	3	BIO116 Bio Concepts: Structure, Function, Cell	4
BIO115 Bio Concepts: Eco, Evo, Genetics	4	STA261 Statistics or MTH151 Calculus	4
CHM141/R College Chemistry I	3-4	CHM142 College Chemistry II	3
CHM144 College Chemistry Lab I	2	CHM145 College Chemistry Lab II	2
PA Creative Arts	3	PA Global Citizenship	3
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Total	16-17	Total	15

Year Two

Fall Semester	Hours	Spring Semester	Hours
BIO203 Intro to Cell Biology	3	BIO206 Evolutionary Biology or BIO209 Fundamentals of Ecology	3
CHM241/244 Organic Chemistry I w/Lab or CHM231 Fundamentals of Organic Chemistry	3-4	CHM242/245 Organic Chemistry II w/Lab or ELECTIVE (if CHM231 is taken)	5
BSC292 Applied Bio Sophomore Seminar	3	MAJOR Tool Course	3
MAJOR Tool Course	3	PA Global Citizenship	3
Total	14-15	Total	15

Year Three

Fall Semester	Hours	Spring Semester	Hours
BIO201 Human Anatomy	4	BIO342 Genetics	3
PHY161 Physics for Life Sciences I w/lab	4	CHM332/332L Outlines of Biochemistry w/Lab	4
MAJOR Professional Course	3	PA Humanities	3
PA Social Science (PSY111 recommended)	3	MAJOR Tool Course	3
PA Advanced Writing	3	MAJOR Tool Course	3
Total	17	Total	16

Year Four

Fall Semester	Hours	Spring Semester	Hours
BIO305 Human Physiology	4	BSC492 Applied Bio Senior Seminar	1
MAJOR Tool Course	3	MAJOR Tool Course	3
MAJOR Professional Course	3	CAPSTONE (if not completed by Professional Course) or ELECTIVE	3
PA Global Citizenship	3	MAJOR Tool Course	3
PA Social Science	3	PA Global Citizenship	3
Total	16	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 SI Signature Inquiry requirement

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



COLLEGE OF LIBERAL ARTS
AND APPLIED SCIENCE