

BS: Applied Biology: Environmental Biology

The Environmental Biology concentration of Applied Biology focuses on courses in biology, chemistry, geology and math to prepare students for careers related to sustaining the environment and wildlife protection. Students select a "tool" in GIS, Commerce, Data Intelligence or Forensic Investigation and earn numerous certifications.

Department of Biological Sciences

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Office of Advising

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Tutoring and Learning Center (TLC)

513-785-3139

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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	ECO201 Microeconomics or POL241 American Political system
Social Sciences #2	3	Choice
Natural Science #1	4	BIO115 Biological Concepts
Lab	2	CHM144 College Chemistry Lab
Natural Science #2	3-4	CHM141/CHM 141R 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 (GLG307 The Water Planet recommended)
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-Environmental 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
GLG121 Environmental Geology	3	ECO201 Microeconomics or POL241 American Political System	3
PA Creative Arts	3	GLG115L Understanding the Earth	1
PA Humanities	3	SI Signature Inquiry or ELECTIVE	3
UNV101 I am MIAMI	1		
Total	17	Total	15

Year Two

Fall Semester	Hours	Spring Semester	Hours
BIO206 Evolutionary Biology	3	BIO209 Fundamentals of Ecology	3
CHM141/R College Chemistry I	3-4	BSC292 Applied Bio Sophomore Seminar	1
CHM144 College Chemistry Lab I	2	CHM142 College Chemistry II	3
MAJOR Tool Course	3	CHM145 College Chemistry Lab II	2
PA Global Citizenship	3	PA Global Citizenship	3
		MAJOR Tool Course	3
Total	14-15	Total	15

Year Three

Fall Semester	Hours	Spring Semester	Hours
MAJOR select 3 from BIO205 , 311 , 312 , 314 or BSC313	4	MAJOR select 3 from BIO205 , 311 , 312 , 314 or BSC313	4
MAJOR Professional Course	3	BIO342 Genetics	3
MAJOR Tool Course	3	GLG244 Oceanography or GLG307 Water & Society	3
PA Global Citizenship	3	PA Global Citizenship	3
PA Advanced Writing	3	PA Social Science	3
		KNOWLEDGE IN ACTION Internship or BSC321	0-3
Total	16	Total	16-19

Year Four

Fall Semester	Hours	Spring Semester	Hours
MAJOR select 3 from BIO205 , 311 , 312 , 314 or BSC313	4	BSC492 Applied Bio Senior Seminar	1
MAJOR Tool Course	3	MAJOR Tool Course	3
MAJOR Professional Course (BSC415 or BSC475 recommended)	3	CAPSTONE (if not completed by Professional Course) or ELECTIVE	3
SI Signature Inquiry or ELECTIVE	3	MAJOR Tool Course	3
ELECTIVE	3	SI Signature Inquiry or ELECTIVE	3
Total	16	Total	13

There is a minimum of 124 hours required to graduate

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