

# **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.

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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 miamiregionalscareer@MiamiOH.edu

### **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 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+	Choice (Internship recommended)

# 2024-25 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		
Тс	otal 17	Tota	al 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

**MAJOR** Tool Course

Total	14-15

3

## Year Three

PA Global Citizenship

Fall Semester	Hours
MAJOR select 3 from BIO205, 311, 312, 314 or	1
BSC313	4
MAJOR Professional Course	3
MAJOR Tool Course	3
PA Global Citizenship	3
PA Advanced Writing	3
<b></b>	al 16
IOT	ai 16

Spring Semester	Hours
MAJOR select 3 from BIO205, 311, 312, 314 or	1
BSC313	4
BIO342 Genetics	3
GLG244 Oceanography or GLG307 Water & Society	3
PA Global Citizenship	3
PA Social Science	3
KNOWLEDGE IN ACTION Internship or BSC321	0-3
Tota	16-19

### Year Four

Fall Semester	Hours
MAJOR select 3 from BIO205, 311, 312, 314 or	4
BSC313	
MAJOR Tool Course	3
MAJOR Professional Course (BSC415 or BSC475	3
recommended)	
SI Signature Inquiry or ELECTIVE	3
ELECTIVE	3
Tota	16

Spring Semester		Hours
BSC492 Applied Bio Senior Seminar		1
		2
MAJOR Tool Course		3
<b>CAPSTONE</b> (if not completed by Professional		3
Course) or ELECTIVE		
MAJOR Tool Course		3
SI Signature Inquiry or ELECTIVE		3
	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

3

3

15

Total