

Department of Biological Sciences, Jones College of Science, Engineering and Technology



A career that connects you with nature.

Complete all of the following:

Complete at least 1 of the following:

Complete the following:

Complete at least 1 of the following:

Complete at least 1 of the following:

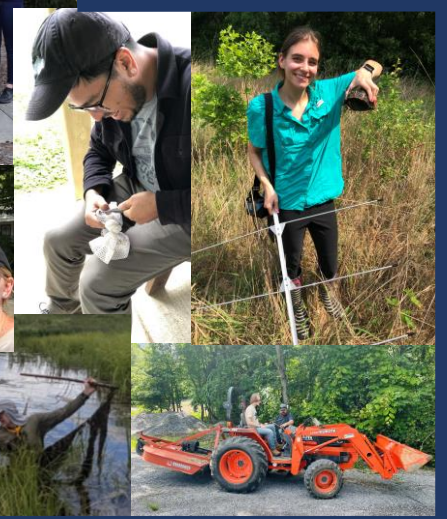
Complete at least 1 of the following:

Complete 2 of the following:

Complete all of the following:

CHE 105 - Introductory Chemistry (4)

Along with MSU's Hancock Biological Station we are also near Clarks River National Wildlife Refuge, Land Between the Lakes, and several wildlife management areas.



B.S. in Wildlife & Conservation Biology



Conservation Biology

Conservation Biology Track Specific Courses

Complete all of the following:

ECO 230 Principles of Macroeconomics
ECO 310 Issues in the Global Economy
PLN 507 Landuse Planning
POL 250 Introduction to International Relations
At least 4 career-focused electives

Complete at least 1 of the following:

COM 260 Communication Ethics
NLS 290 Community Engagement and the Nonprofit Sector

Complete at least 1 of the following:

BIO 240 Biological Applications in GIS
EES 202 Introduction to Geographic Information Science

Other University Studies Required Courses in:

Creative Perspectives
Historical Perspectives
Literary and Philosophical Perspectives



Zoological Conservation

Zoological Conservation Track Specific Courses

Complete all of the following:

AGR 300 Applications in Animal Technology
AGR 310 Animal Nutrition
BIO 538 Animal Behavior
BIO 539 Animal Behavior Lab
BIO 579 Zoological Conservation
At least 4 career-focused electives

Complete at least 1 of the following:

COM 260 Communication Ethics
NLS 290 Community Engagement and the Nonprofit Sector

Other University Studies Required Courses in:

Creative Perspectives
Historical Perspectives
Literary and Philosophical Perspectives
Social and Behavioral Perspectives



Conservation Law Enforcement

Students within each track take specialized courses to prepare them for the career they want.

Below is a typical schedule for the Wildlife Biology track – schedules for other tracks are similar.

Suggested Curriculum for Wildlife & Conservation Biology/Wildlife Biology Track BS							
Freshman Fall Semester (Even)			Freshman Spring Semester (Odd)				
		Hours			Hour		
BIO	100T	Transitions	1	BIO	216	Biological Inquiry and Analysis (SP only)	4
BIO	115	Cellular Basis of Life	3	BIO	222	Botany Plant Form and Function	4
BIO	149	Introduction to Wildlife and Conservation Bio (FA only)	1	MAT	140	College Algebra (Math ACT 21 or 22; if ACT > 22 enroll in 5 credit MAT 150)	4
ENG	105	Critical Reading and Writing ¹	4			University Studies - Creative Perspectives ²	3
CHE	105	Introductory Chemistry (or CHE 201 if Math ACT > 23)	4				
COM	161	Public Speaking	3				
	Total		16	Total			15
Sophomore Fall Semester (Odd)			Sophomore Spring Semester (Even)				
		Hours			Hour		
BIO	221	Zoology Animal Form and Function	4	BIO	310	Vertebrate Natural History (SP only)	4
BIO	380	Wildlife Techniques (FA only)	4	BIO	330	Principles of Ecology	4
BIO	382	Scientific Communication for the Biologist (FA only; or ENG 324 any)	2	STA	135	Intro to Probability and Statistics	4
MAT	145	Trigonometry ¹	3			EES 314 Sediments and Soils or AGR 345 Soil Science	3
		University Studies - Literary & Philosophical Perspectives ²	3				
	Total		16	Total			15
Junior Fall Semester (Even)			Junior Spring Semester (Odd)				
		Hours			Hour		
BIO	305	Introduction to Evolutionary Principles	3	BIO	240	Biological Applications in GIS (SP odd; or EES 202 any)	4
BIO	554	Dendrology and Forest Conservation (FA only)	4	BIO	584	Wildlife Policy and Administration (SP odd)	3
		Career-focused elective ⁴ or BIO 590	4	BIO	578	Conservation Biology (SP only)	4
		Disturbance Ecology (FA even) ⁵	4			Career-focused elective ⁴ or BIO 573 Ornithology (SP odd) ⁵	4
		ECO 231 Principles of Microeconomics or AGR 199	3			or BIO 568 Wetland Ecology (SP odd) ⁵	4
		Contemporary Issues in Agriculture	3				
	Total		14	Total			15
Senior Fall Semester (Odd)			Senior Spring Semester (Even)				
		Hours			Hour		
	BIO 350 Systematic Botany or BIO 352 Wetland Plant ID or BIO 552 Native Plants for Wildlife or BIO 553 Field Botany	2 or 4	BIO	377	Conservation Genetics (SP only; or BIO 333 any)	3	
	COM 260 Communication Ethics or NLS 290 Community Engagement and the Nonprofit Sector	3	BIO	580	Principles of Wildlife Management (SP only)	4	
	Career-focused elective ⁴ or BIO 574 Mammalogy (FA odd) ⁵	4	BIO	499	Senior Seminar	1	
	or BIO 527 Advanced Ecology (FA odd) ⁵	4			University Studies - Historical Perspectives ²	3	
	Physical Science Course ³	3			Career-focused elective ⁴ or BIO 572 Herpetology (SP even) ⁵	4	
	Career-focused elective ⁴	1 to 3			or BIO 542 Watershed Ecology (SP even) ⁵	4	
	Total		15	Total			15



Conservation Education & Interpretation

Conservation Education & Interpretation Track Specific Courses

Complete all of the following:

EDP 260 Psychology of Human Development
JMC 391 Public Relations Principles
At least 11 career-focused electives

Complete at least 1 of the following:

COM 260 Communication Ethics
NLS 290 Community Engagement and the Nonprofit Sector

Complete at least 1 of the following:

NLS 420 Field Studies in Environmental Education
NLS 470 Interpretation of Cultural and Natural Resources
PHE 460 Recreational Uses of Natural Resources

Other University Studies Required Courses in:

Creative Perspectives
Historical Perspectives
Literary and Philosophical Perspectives

Conservation Law Enforcement Track Specific Courses

Complete all of the following:

COM 260 Communication Ethics
CRJ 140 Introduction to Criminal Justice
CRJ 220 Law Enforcement
CRJ 300 Crime and Criminals
PSY 180 General Psychology
At least 2 career-focused electives

Complete at least 1 of the following:

CRJ346 Criminal Investigation
CRJ365 Interviewing and Interrogation

Complete at least 1 of the following:

BIO308 - Ethics in Biology
CRJ325 - Criminal Justice Ethics

Other University Studies Required Courses in:

Creative Perspectives
Historical Perspectives
Literary and Philosophical Perspectives



Wildlife Biology

Wildlife Biology Track Specific Courses

Complete all of the following:

At least 9 career-focused electives

Complete at least 1 of the following:

AGR 199 Contemporary Issues in Agriculture
ECO 231 Principles of Microeconomics

Complete at least 1 of the following:

COM 260 Communication Ethics
NLS 290 Community Engagement and the Nonprofit Sector

Complete at least 1 of the following:

BIO 240 Biological Applications in GIS
EES 202 Introduction to Geographic Information Science

Complete at least 1 of the following:

BIO 527 Advanced Ecology
BIO 542 Watershed Ecology
BIO 568 Wetland Ecology
BIO 590 Disturbance Ecology

Other University Studies Required Courses in:

Creative Perspectives
Historical Perspectives
Literary and Philosophical Perspectives

For More Information Contact:

Dept. of Biological Sciences,
Murray State University
Telephone: (270) 809-2786

<http://www.murraystate.edu/biology>

E-mail: Dr. Andrea Darracq at
adarracq@murraystate.edu