

WILDLIFE BIOLOGY-BSTHIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.

Year One			
BIO 121* General Biology II w/lab Prerequisite: MTH 110 (may be taken concurrently)	4 (6)	BIO 120* General Biology I w/lab Prerequisites: High school chemistry, CHM 109, or CHM 115 strongly recommended (CHM 109 or 115 may be taken concurrently)	4 (6)
CHM 109 Introductory Chemistry OR	4 (6)	¹ Physical Science Elective (see below)	4-5
¹ CHM 115 Principles of Chemistry I w/lab Prerequisites: High school chemistry and (MTH 110 or MTH 122 or MTH 125 or MTH 201)	4 (6)	NRM 150 Introduction to Natural Resources	3
Gen Ed or ² WRT 120 (self-placement)	3	² WRT 130 or WRT 150 Strategies in Writing	3-4
Gen Ed OR ³ MTH 122 College Algebra Prerequisite: MTH 110 or assignment through Grand Valley math placement	3	⁴ Elective (if needed)	1
⁴ Elective	1		
<i>*It is strongly recommended that WB majors take BIO 121 before BIO 120.</i>			
<i>Numbers noted within (parentheses) are contact hours</i>	<i>Total</i>	<i>Total</i>	<i>15-16*</i>
	15		15-16*
Year Two			
BIO 215 Ecology w/lab (<i>summer and fall only</i>) Prerequisites: BIO 120 and BIO 121 (BIO 120 may be taken concurrently)	4 (6)	BIO 308/NRM 308 Wildlife Ecology (<i>winter only</i>) Prerequisites: BIO 215	4 (6)
NRM 250 Resource Measurements and Maps (<i>fall only</i>)	3 (5)	¹ Physical Science Elective (see below) (if needed)	4-5
STA 215 Intro to Applied Statistics	3	Animal Elective (see below)	3-4
Gen Ed	3	Gen Ed	3
⁴ Elective	1	⁴ Elective (if needed)	1
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>15-16*</i>
	14		15-16*
Year Three			
BIO 408/NRM 408 Wildlife Management (<i>fall only</i>) Prerequisites: BIO 308 or NRM 308	4 (6)	Wildlife Theory & Application Elective (see below)	3-4
Wildlife Theory & Application Elective (see below)	3-4	Animal Elective (see below)	3-4
Gen Ed	3	Plant Elective (see below)	2-4
Gen Ed	3	⁵ Issues Gen Ed-SWS	3
⁴ Elective (if needed)	1	⁴ Elective (if needed)	1-3
<i>Total</i>	<i>14-15</i>	<i>Total</i>	<i>14-15</i>
	14-15		14-15
Year Four			
BIO 375 Genetics and BIO 376 Genetics Laboratory BIO 375 Prerequisites: BIO 120 or CMB 155 and 156 BIO 376 Prerequisites: BIO 375 or 355 (either may be taken concurrently)	4 (6)	⁵ NRM 495 SWS Trends in Natural Resources Mgt Prerequisites: Senior Standing, STA 215, NRM 150 and one upper level NRM course	4
Animal Elective (see below)	3-4	OR ^{5/6} NRM 496 SWS (winter only) + ⁶ NRM 497 (Capstone) (spring/summer only)	4
Plant Elective (see below)	2-4	Prerequisites: 496: Senior Standing, STA 215, NRM 150 and one upper level NRM course or 497: NRM 496 or permission	
Issues Gen Ed	3	Plant Elective (see below)	2-4
Gen Ed (if needed)	3	Math & Statistics or Gen Ed (if needed)	3-5
		Gen Ed	3
		Gen Ed or ⁴ Elective (if needed)	3
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>15-16*</i>
	15		15-16*

*The block tuition rate is for 12-15 credits. You will pay additional tuition for any credits over 15 credits.

¹Students planning on professional or graduate school should complete CHM 115, 116, 241, 242, 461 and PHY 220 and PHY 221. See the Preprofessional Advisors in the CLAS Academic Advising Center for more information.²A grade of C or better is required in WRT 130 or 150 in order to satisfy the WRT requirement at GVSU.³MTH 122 is required for CHM 116. **Take the Math Proficiency Tests for MTH 122 and/or 123 online: www.gvsu.edu/s/mv**⁴Elective refers to any course that will help you earn the required 120 credits to graduate.⁵Students must complete a total of two courses with an SWS attribute.⁶NRM 497 is a spring/summer course and can only be taken if NRM 496 is completed in the winter.

Declaring the Wildlife Biology Major:

1. In myBanner, select "Student" > "Student Records" > "Change Major" > "Change Major 1/Program"
2. Choose "Wildlife Biology-BS" from the drop-down box.
3. Click "Submit" and then "Change to New Program"

General Education Categories fulfilled by the Biology major:
Life Science and Physical Science: BIO 120 and CHM 109 or CHM 115 (all fulfill lab requirement)
Mathematical Sciences: STA 215
Philosophy & Literature: COM 202*
Issues (recommended): BIO 338-SWS* and NRM 451*

*By choosing the correct general education classes, graduates can be eligible for certification as an Associate Wildlife Biologist by the Wildlife Society. More information can be found at, www.wildlife.org. Please consult with your faculty advisor.

Students must complete electives from each category as described below.

Wildlife Theory & Application Electives	Animal Electives	Plant Electives
<p>Complete at least 6 credits from the following:</p> <p>BIO 210 – Evolutionary Biology (3) Prerequisites: BIO 120 and BIO 121</p> <p>^W NRM 395 – GIS Applications in Resource Management (3) w/ lab Prerequisites: GPY 307 or NRM 250</p> <p>^F BIO 386 or NRM 386 – Ecological Restoration and Management (4) w/ lab Prerequisites: BIO 215</p> <p>^W BIO 415 or NRM 415 – Fire Ecology and Management (3) Prerequisites: BIO 215</p> <p>^W NRM 462 – Forest Ecosystem Management (4) w/ lab Prerequisites: NRM 150, NRM 250</p> <p>BIO 470 – Conservation Biology (3) Prerequisites: BIO 215</p> <p>^{FE} BIO 475 – Population Genetics (3) Prerequisites: BIO 210 and (either BIO 355 or BIO 375), or by permission</p> <p>^W BIO 485 – Molecular Ecology (3) w/ lab Prerequisites: BIO 375</p> <p>^F Offered in Fall ^W Offered in Winter ^{SS} Offered in Spring/Summer</p> <p>^E Offered in Even years only ^O Offered in Odd years only</p>	<p>Complete at least 9 credits from the following:</p> <p>^F BIO 222 – Natural History of Vertebrates (3) w/ lab Prerequisites: BIO 121</p> <p>^W BIO 232 – Natural History of Invertebrates (3) w/ lab Prerequisites: BIO 121</p> <p>^F BIO 272 – Insect Biodiversity (3) w/ lab Prerequisites: BIO 121 (BIO 215 recommended)</p> <p>^W BIO 342 – Ornithology (3) w/ lab Prerequisites: BIO 121</p> <p>^F BIO 412 – Mammalogy (4) w/ lab Prerequisites: BIO 121 and BIO 215</p> <p>^F BIO 444 – Herpetology (4) w/ lab Prerequisites: BIO 215</p>	<p>Complete at least 9 credits from the following:</p> <p>^{SS} BIO 243 – Plant Identification and Natural History (3) w/ lab Prerequisites: BIO 121</p> <p>^W BIO 303 – Plant Morphology (4) w/ lab Prerequisites: BIO 215</p> <p>^W BIO 313 – Plants and Islands (4) Prerequisites: BIO 121 and Permission of Instructor. BIO 215 recommended.</p> <p>^F BIO 323 – Aquatic and Wetland Plants (3) w/ lab Prerequisites: BIO 121</p> <p>^F BIO 333 – Plant Systematics (4) w/ lab Prerequisites: BIO 121</p> <p>^{FE} BIO 383 – Plant-Fungal Interactions (4) w/ lab Prerequisites: BIO 121</p> <p>^W BIO 403 – Plant Physiology (4) w/ lab Prerequisites: BIO 120 (or CMB 155/156); and BIO 121; and CHM 231 or CHM 241</p> <p>^F BIO 433 – Plant Ecology (4) w/ lab Prerequisites: BIO 120 (or CMB 155/156); and BIO 121; and BIO 215</p> <p>^F NRM 263 – Forest Vegetation (2) w/ lab Prerequisites: BIO 121</p>
<p>Mathematics & Statistics</p> <p>Complete at least 3 credits from the following:</p> <p>MTH 122 – College Algebra (3) Prerequisite: MTH 110 or assignment through Grand Valley math placement</p> <p>MTH 123 – Trigonometry (3) Prerequisite: MTH 122 or assignment through Grand Valley math placement (MTH 122 may be taken concurrently)</p> <p>MTH 124 – Precalculus: Functions and Models(5) Prerequisite: MTH 110</p> <p>MTH 125 – Survey of Calculus (3) Prerequisite: MTH 110; or assignment through math placement</p> <p>STA 216 – Intermediate Applied Statistics (3) Prerequisite: STA 215 or STA 312</p>	<p>Physical Science Electives</p> <p>Complete at least 5 credits from the following:</p> <p>CHM 116 – Principles of Chemistry II (5) w/ lab Prerequisites: CHM 115 and (MTH 122 or MTH 125 or MTH 201)</p> <p>CHM 231 – Intro to Organic Chemistry (4) w/ lab Prerequisite: CHM 109 or CHM 116</p> <p>CHM 232 – Biological Chemistry (4) w/ lab Prerequisite: CHM 231</p> <p>GEO 111 – Exploring the Earth (4) w/ lab</p> <p>^F NRM 281 – Principles of Soil Science (4) w/ lab Prerequisite: CHM 109 or CHM 115</p> <p>PHY 200 – Physics for the Life Sciences (4) w/ lab Prerequisite: MTH 110 or MTH 122 or MTH 201</p> <p>OR PHY 220 – General Physics I (5) w/ lab Prerequisites: MTH 122 and MTH 123</p>	

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly.

The CLAS Academic Advising Center is located in C-1-120 MAK, 616-331-8585. To schedule an appointment with an advisor in the CLAS Academic Advising Center, visit www.gvsu.edu/clasadvising and click on "Schedule Appointment."