

Name: \_\_\_\_\_

**NORTH DAKOTA STATE UNIVERSITY**

College of Science & Mathematics

**ZOOLOGY**

Fall 2012

ID: \_\_\_\_\_

GENERAL EDUCATION REQUIREMENTS - 40 Credits Required					<input type="checkbox"/> <b>OPTION 1:</b> General Zoology <input type="checkbox"/> <b>OPTION 2:</b> Physiology, Cell Biology and Health Science <input type="checkbox"/> <b>OPTION 3:</b> Fisheries, Wildlife, Ecology and Behavior		<i>Check one option</i>		
<b>Course</b>	<b>Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Grade</b>					
<b>First Year Experience (F)</b>					<b>1 credit</b>				
UNIV	189 <sup>1</sup>	Skills for Academic Success	1						
<b>Communication (C)</b>					<b>12 credits</b>				
ENGL	110	College Composition I	3		BIOL	150/L	General Biology I & Lab	3/1	
ENGL	120	College Composition II	3		BIOL	151/L	General Biology II & Lab	3/1	
COMM	110	Fundamentals of Public Speaking	3		BIOL	459	Evolution	3	
ENGL	324	Writing for the Sciences	3		ZOO	491*	Capstone Seminar	2	
<b>Quantitative Reasoning (R)</b>					<b>3 credits</b>				
STAT	330	Introductory Statistics	3		*Must be taken during student's SENIOR year				
<b>Science &amp; Technology (S)</b>					<b>10 credits</b>				
The 10 credits required in the Science and Technology category will be fulfilled with requirements of the major.					<b>REQUIRED OPTION CORE COURSES (21 or 23 credits)</b>				
					<input type="checkbox"/> <b>OPTION ONE ADDITIONAL CORE (7 Courses)</b>				
					ZOO	280	Comparative Chordate Morphology	4	
					ZOO	450	Invertebrate Zoology	4	
<b>Humanities &amp; Fine Arts (A)</b>					<b>6 credits</b>				
					Option One Electives (select from groups listed on page two):				
					Two ZOO/BIOL courses from group one				
					Two ZOO/BIOL courses from group three				
					One ZOO/BIOL courses from any group				
<b>Social &amp; Behavioral Sciences (B)</b>					<b>6 credits</b>				
					<input type="checkbox"/> <b>OPTION TWO ADDITIONAL CORE (7 Courses)</b>				
					ZOO	370	Cell Biology	3	
					ZOO	460	Animal Physiology	3	
<b>Wellness (W)</b>					<b>2 credits</b>				
					<b>Option Two Electives (select from groups listed on page two):</b>				
					Two ZOO/BIOL courses from group one				
					Two ZOO/BIOL courses from group two				
					One ZOO/BIOL courses from group three				
<b>Cultural Diversity (D)</b>									
<b>Global Perspectives (G)</b>									
					<input type="checkbox"/> <b>OPTION THREE ADDITIONAL CORE (7 Courses)</b>				
					BIOL	364	General Ecology	3	
					ZOO	475	Conservation Biology	3	
					<b>Option Three Electives (select from groups listed on page two):</b>				
					One ZOO/BIOL courses from group one				
					Two ZOO/BIOL courses from group two				
					Two ZOO/BIOL courses from group three				
<b>COLLEGE REQUIREMENTS for a BS or BA Degree</b>									
The College of Science & Mathematics requires an additional 6 credits in Humanities or Social Sciences for the BS degree and an additional 12 credits for the BA degree and two years proficiency of a modern foreign language.									
<b>BA Degree Requirements:</b>									
2nd yr Lang Proficiency									
HUM or Soc Sci					3				
HUM or Soc Sci					3				
HUM or Soc Sci					3				
HUM or Soc Sci					3				
<b>BS Degree Requirements:</b>									
HUM or Soc Sci					3				
HUM or Soc Sci					3				
					<b>Notes/Comments</b>				
					<b>NOTE: A 2.00 GPA is needed in Zoology major courses, not including option courses.</b>				
					<b>ALL COURSES ON THIS CURRICULUM ARE REQUIRED FOR THE MAJOR; NO COURSE MAY BE TAKEN P/F FOR ANY PART OF THE DEGREE</b>				
					<b>Students may not minor in biology or zoology with this major.</b>				
					<i>Curriculum continued on page two.</i>				
<sup>1</sup> Students transferring in 24 or more credits do not need to take UNIV 189.									
NR = Not Required IP = In Progress T = Transfer Credit									

OPTION ELECTIVES (21 or 23 credits required)					Required Courses for ALL OPTIONS: 12 Credits Required (Not counted in major credits)				
<b>Group One</b>									
BIOL	478	Methods in Animal Pathology	3		CHEM	121/121L	General Chemistry I/Lab	3/1	
BOT	380	Plant Physiology	3		CHEM	122/122L	General Chemistry II/Lab	3/1	
ZOO	370	Cell Biology	3		MATH	146	Applied Calculus	4	
ZOO	380	Vertebrate Histology	3		<b>Additional Required Option Courses-not counted in major credits</b>				
ZOO	460	Animal Physiology	3						
ZOO	464	Endocrinology	3		<b>Option 1</b>				
ZOO	482	Developmental Biology	3		CHEM	341	Organic Chemistry I	3	
<b>Group Two</b>					CHEM	341L	Organic Chemistry I Lab	1	
BOT	314	Plant Systematics	3		PHYS	120	Fundamentals of Physics	3	
BOT	372	Structure and Diversity of Plants & Fungi	4		<b>Option 2</b>				
ZOO	280	Comparative Chordate Morphology	4		CHEM	341	Organic Chemistry I	3	
ZOO	360	Animal Behavior	3		CHEM	341L	Organic Chemistry I Lab	1	
ZOO	450	Invertebrate Zoology	4		CHEM	342	Organic Chemistry II	3	
ZOO	452	Ichthyology	3		CHEM	342L	Organic Chemistry II Lab	1	
ZOO	454	Herpetology	3		PHYS	211	College Physics I	3	
ZOO	456	Ornithology	3		PHYS	211L	College Physics I Lab	1	
ZOO	458	Mammalogy	3		PHYS	212	College Physics II	3	
ZOO	472	Fisheries Biology	3		PHYS	212L	College Physics II Lab	1	
<b>Group Three</b>					<b>Option 3</b>				
BIOL	364	General Ecology	3		CHEM	240	Survey of Organic Chemistry	3	
BIOL	480	Ecotoxicology	3		PHYS	120	Fundamentals of Physics	3	
BIOL	481	Wetland Science	3		<b>Electives: 16 minimum credits required to reach 122 to graduate</b>				
BOT	460	Plant Ecology	3						
ZOO	462	Physiological Ecology	3						
ZOO	470	Limnology	4		<b>UNIVERSITY GRADUATION REQUIREMENTS</b>				
ZOO	474	Fish Management	3		<b>Residency at NDSU (15 cr. @ NDSU):</b>			<b>36 Credits</b>	
ZOO	475	Conservation Biology	3		<b>Credits at 4-year University:</b>			<b>60 Credits</b>	
ZOO	476	Wildlife Ecology & Management	3		<b>Courses numbered 300+ (Min. 15 cr @ NDSU):</b>			<b>37 Credits</b>	
ZOO	477	Wildlife & Fisheries Management Tech	3		<b>Total Credits Required:</b>			<b>122 Credits</b>	