

NAME: _____

ID: _____

NORTH DAKOTA STATE UNIVERSITY

College of Science and Mathematics

Biological Sciences

Fall 2012

General Education Requirements - 40 Credits Required					Major Requirements - 38 Credits Required					
Course	Number	Course Title	Credits	Grade	Course	Number	Course Title	Credits	Grade	
First Year Experience (F)			1 credit		Biological Sciences Core Courses - 26 credits					
UNIV	189 ¹	Skills for Academic Success	1		BIOL	150/L	General Biology I & Lab	3/1		
Communication (C)			12 credits		BIOL	151/L	General Biology II & Lab	3/1		
ENGL	110	College Composition I	3		BIOL	459	Evolution	3		
ENGL	120	College Composition II	3		BIOL	491	Capstone Seminar	2		
COMM	110	Fundamentals of Public Speaking	3		BIOL	315/L	Genetics/Lab	3/1		
ENGL	324	Writing in the Sciences	3		BIOL	364	General Ecology	3		
Quantitative Reasoning (R)			3 credits		BOT	314, 372, 380, 431, 450 or 460		3/4		
STAT	330	Introductory Statistics	3		ZOO	370	Cell Biology	3		
Science & Technology (S)			10 credits		Electives: Choose 12 credits of additional electives from the list below.					
The 10 credits required in the Science and Technology category will be fulfilled with requirements of the major.					BIOL	478	Methods in Animal Pathology	3		
Humanities & Fine Arts (A) (Max of 3 cr in fine arts perform)					6 credits		BOT	380	Plant Physiology	3
			3		ZOO	380	Vertebrate Histology	3		
			3		ZOO	460	Animal Physiology	3		
Social & Behavioral Sciences (B)			6 credits		ZOO	464	Endocrinology	3		
			3		ZOO	482	Developmental Biology	3		
			3		BOT	314	Plant Systematics	3		
Wellness (W)			2 credits		BOT	372	Structure and Diversity of Plants & Fungi	4		
			2		ZOO	280	Comparative Chordate Morphology	4		
Cultural Diversity (D)					ZOO	360	Animal Behavior	3		
					ZOO	450	Invertebrate Zoology	4		
Global Perspectives (G)					ZOO	452	Ichthyology	3		
					ZOO	454	Herpetology	3		
COLLEGE REQUIREMENTS for a BS or BA Degree					ZOO	456	Ornithology	3		
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.					ZOO	458	Mammalogy	3		
BA Degree Requirements:					ZOO	472	Fisheries Biology	3		
2nd Yr Lang Proficiency					BIOL	480	Ecotoxicology	3		
HUM or Soc Sci			3		BIOL	481	Wetland Science	3		
HUM or Soc Sci			3		BOT	460	Plant Ecology	3		
HUM or Soc Sci			3		ZOO	462	Physiological Ecology	3		
HUM or Soc Sci			3		ZOO	470	Limnology	4		
HUM or Soc Sci			3		ZOO	474	Fish Management	3		
BS Degree Requirements:					ZOO	475	Conservation Biology	3		
HUM or Soc Sci			3		ZOO	476	Wildlife Ecology & Management	3		
HUM or Soc Sci			3		ZOO	477	Wildlife & Fisheries Management Tech	3		
¹ Students transferring in 24 or more credits do not need to take UNIV 189.										
ALL COURSES ON THIS CURRICULUM ARE REQUIRED FOR THE MAJOR					CURRICULUM CONTINUED ON THE BACK					

Related Required Courses (Not counted as part of major credits)					Electives: up to 15 credits to reach 122 to graduate				
Course	Number	Course Title	Credits	Grade	Course	Number	Course Title	Credits	Grade
Chemistry: 8 Credits Required									
CHEM	121/L	General Chemistry I/Lab	3/1						
CHEM	122/L	General Chemistry II/Lab	3/1						
Organic Chemistry and Biochemistry (Choose one group from below): 7 credits required									
Group 1									
CHEM	240	Survey of Organic Chemistry	3						
CHEM	260	Elements of Biochemistry	4						
Group 2					UNIVERSITY GRADUATION REQUIREMENTS				
CHEM	341/L	Organic Chemistry I & Lab	3/1		Residency at NDSU (15 cr. @ NDSU):			36 Credits	
CHEM	342	Organic Chemistry II	3		Credits at 4-year University:			60 Credits	
BIOC	460	Found/Biochem/Molecular Biol I	3		Courses numbered 300+ (Min. 15 cr @ NDSU):			37 Credits	
Earth Science (choose 2 with lab if separate): 6 Credits Required					Total Credits Required:			122 Credits	
GEOL	105/L	Physical Geology & Lab	3/1		NOTES/COMMENTS				
GEOL	106/L	The Earth Through Time & Lab	3/1		To complete a degree, the general education requirements of the College of Science & Mathematics and NDSU need to be met along with the major requirements.				
SOIL	210	Intro to Soil Science	3						
SOIL	217	Meteorology & Climatology	3		Courses taken to fulfill gen ed, college and major requirements may NOT be taken P/F				
Math: 4 Credits Required									
MATH	146	Applied Calculus I	4		Students may not minor in biology with this major.				
Physics: 8 Credits Required									
PHYS	211/L	College Physics I & Lab	3/1						
PHYS	212/L	College Physics II & Lab	3/1						