

Name: _____

NORTH DAKOTA STATE UNIVERSITY

College of Science and Mathematics

Botany

Fall 2012

ID: _____

GENERAL EDUCATION REQUIREMENTS - 40 Credits Required					MAJOR REQUIREMENTS - 38 credits					
Course	Number	Course Title	Credits	Grade	Botany Core Courses - 27 credits					
First Year Experience (F) 1 credit					Course	Number	Course Title	Credits	Grade	
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		BOT	315/L	Genetics/Lab	3/1		
ENGL	120	College Composition II	3		BIOL	459	Evolution	3		
COMM	110	Fundamentals of Public Speaking	3		BOT	491	Capstone Seminar	2		
ENGL	324	Writing for the Sciences	3		BOT	314	Plant Systematics	3		
Quantitative Reasoning (R) 3 credits					BOT	372	Structure & Diversity of Plants & Fungi	4		
STAT	330	Introductory Statistics	3		BOT	460	Plant Ecology	3		
Science & Technology (S) 10 credits					MAJOR ELECTIVES - 11 credits (choose from 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 Physiology	3		
					BOT	380	Plant Physiology	3		
Humanities & Fine Arts (A) (Max of 3 cr in fine arts perform) 6 credits					ZOO	370	Cell Biology	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		ZOO	280	Comparative Chordate Morphology	4		
Wellness (W) 2 credits					ZOO	360	Animal Behavior	3		
			2		ZOO	452	Ichthyology	3		
Cultural Diversity (D)					ZOO	454	Herpetology	3		
					ZOO	456	Ornithology	3		
Global Perspectives (G)					ZOO	458	Mammalogy	3		
					ZOO	472	Fisheries Biology	3		
COLLEGE REQUIREMENTS for a BS or BA Degree					BIOL/ZOO	364	General Ecology	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	462	Physiological Ecology	3		
					ZOO	470	Limnology	4		
BA Degree Requirements:					ZOO	474	Fisheries Management	3		
2nd Yr Lang Proficiency					ZOO	476	Wildlife Ecology & Management	3		
HUM or Soc Sci			3		ZOO	477	Wildlife and Fisheries Management	3		
HUM or Soc Sci			3		BIOL	480	Ecotoxicology	3		
HUM or Soc Sci			3		BIOL	481	Wetland Science	3		
BS Degree Requirements:					Chemistry: 15 Credits Required					
HUM or Soc Sci			3		CHEM	121/L	General Chemistry I /Lab	3/1		
HUM or Soc Sci			3		CHEM	122/L	General Chemistry II/Lab	3/1		
UNIVERSITY GRADUATION REQUIREMENTS					Organic Chemistry and Biochemistry (Choose one group)					
Residency at NDSU (15 cr. @ NDSU): 36 Credits					Group 1					
					CHEM	240	Survey of Organic Chemistry	3		
Credits at 4-year University: 60 Credits					Group 2					
					CHEM	260	Elements of Biochemistry	4		
Courses numbered 300+ (Min. 15 cr @ NDSU): 37 Credits					CHEM	341/L	Organic Chemistry I & Lab	3/1		
					CHEM	342	Organic Chemistry II	3		
Total Credits Required: 122 Credits					BIOC	460	Found/Biochem/Molecular Biol I	3		
					Math: 4 Credits Required					
¹ Students transferring in 24 or more credits do not need to take UNIV 189.					MATH	146	Applied Calculus I	4		
					Physics: 8 Credits Required					
Students may not minor in biology or botany with this major.					PHYS	211/L	College Physics I & Lab	3/1		
					PHYS	212/L	College Physics II & Lab	3/1		
All courses listed on this curriculum are required for the major.					Electives: up to 21 Credits to reach 122					