

Name: _____

NORTH DAKOTA STATE UNIVERSITY
College of Human Development & Education

ID: _____

Chemistry Education

Fall 2012

General Education Requirements - 40 Credits Required					Teaching Specialty Requirements - 63 Credits Required						
Course	Number	Course Title	Credits	Grade	A GPA of 2.75 or better in the teaching specialty is required for placement in student teaching and exit from the program.						
First Year Experience (F)			1 Sem Credit		Course	Number	Course Title	Credits	Grade	HP	
HD&E	189 ¹	Skills for Academic Success	1		BIOL	150 or 151	General Biology I OR General Biology II	3			
Communication (C)			12 Sem Credits		BIOL	150L or 151L	General Biology I Lab OR General Biology II Lab	1			
*ENGL	110	College Composition I	3		BIOC	460	Foundations of Biochemistry	3			
*ENGL	120	College Composition II	3		Select Sequence A or B						
COMM	110	Fund of Public Speaking	3		A) CHEM	121	General Chemistry I	3			
ENGL	324	Writing in the Sciences	3		CHEM	121L	General Chemistry I Lab	1			
Quantitative Reasoning (R)			3 Sem Credits		CHEM	122	General Chemistry II	3			
STAT	330	Introductory Statistics	3		CHEM	122L	General Chemistry II Lab	1			
Science & Technology (S)			10 Sem Credits		B) CHEM	150	Principles of Chemistry I	3			
BIOL	124	Environmental Science	3		CHEM	160	Principles of Chemistry I Lab	1			
BIOL	124L	Environmental Science Lab	1		CHEM	151	Principles of Chemistry II	3			
GEOL	105	Physical Geology	3		CHEM	161	Principles of Chemistry II Lab	1			
GEOL	106	The Earth Through Time	3		CHEM	341	Organic Chemistry I	3			
Humanities & Fine Arts (A)			6 Sem Credits		CHEM	341L	Organic Chemistry I Lab	1			
			3		CHEM	342	Organic Chemistry II	3			
			3		CHEM	342L	Organic Chemistry II Lab	1			
Social & Behavioral Sciences (B)			6 Sem Credits		CHEM	364	Physical Chemistry I	3			
			3		CHEM	365	Physical Chemistry II	3			
			3		CHEM	425	Inorganic Chemistry I	3			
Wellness (W)			2 Sem Credits		CHEM	431	Analytical Chemistry I	3			
			2		CHEM	431L	Analytical Chemistry I Lab	2			
Cultural Diversity (D)					CHEM	491	Seminar (Senior Capstone)	2			
					PHYS	251	University Physics I	4			
Global Perspectives (G)					PHYS	251L	University Physics I Lab	1			
GEOL	105	Physical Geology			PHYS	252	University Physics II	4			
Professional Education Requirements - 31 Credits Required					PHYS	252L	University Physics II Lab	1			
A grade of C or better is required in all Professional Education Requirement courses.					MATH	165	Calculus I	4			
A GPA of 2.75 or better in professional education as well as passing the appropriate Praxis II exam are required to exit the program.					MATH	166	Calculus II	4			
Course	Number	Course Title	Credits	Grade	HP	MATH	259 or 265	Multivariate Calculus OR Calculus III	3 or 4		
EDUC	321	Introduction to Teaching	3			MATH	266	Intro to Differential Equations	3		
EDUC	322	Educational Psychology	3			Department Requirements - 2 Credits Required					
EDUC	451	Instruc Plan, Methods & Assess	3			GEOL	105L	Physical Geology Lab	1		
EDUC	481	Classroom Prac/Meth of Teach I-Science	3			GEOL	106L	The Earth Through Time Lab	1		
EDUC	485	Student Teaching Seminar	1			*See School of Education admission requirements.					
EDUC	486	Classroom Mgt for Diverse Learners	3			All courses listed on this curriculum guide are required for the major.					
EDUC	487	Student Teaching	9			Total Credits Required for Graduation:					
EDUC	488	Applied Student Teaching	3			136					
EDUC	489	Native Am. & Multicult Instr Prac	3								

¹Students transferring in 24 or more credits do not need to take HD&E 189.