

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

**NORTH DAKOTA STATE UNIVERSITY**  
College of Human Development & Education

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

**Chemistry Education Major**

Fall 2008

General Education Requirements - 40 Credits Required					Teaching Specialty Requirements - 66 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		<b>Course</b>	<b>Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Grade</b>	<b>HP</b>		
HD&E	189^	Skills for Academic Success	1		BIOL	150 or 151	General Biology I OR General Biology II	3				
Communications Category (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	4				
*ENGL	120	College Composition II	3		<b>Select Sequence A or B</b>							
COMM	110	Fund of Public Speaking	3									
ENGL	324	Writing in the Sciences	3		<b>A) CHEM</b>							
Quantitative Reasoning (R)			3 Sem Credits									
STAT	330	Introductory Statistics	3		CHEM	121	General Chemistry I	3				
Science & Technology (S)			10 Sem Credits		CHEM	121L	General Chemistry I Lab	1				
BIOL	124	Environmental Science	3		CHEM	122	General Chemistry II	3				
BIOL	124L	Environmental Science Lab	1		CHEM	122L	General Chemistry II Lab	1				
GEOL	105	Physical Geology	3		<b>B) CHEM</b>							
GEOL	106	The Earth Through Time	3									
Humanities & Fine Arts (A)			6 Sem Credits		CHEM	150	Principles of Chemistry I	3				
			3		CHEM	160	Principles of Chemistry I Lab	1				
			3		CHEM	151	Principles of Chemistry II	3				
Social & Behavioral Sciences Category (B)			6 Sem Credits		CHEM	161	Principles of Chemistry II Lab	1				
			3		CHEM	341	Organic Chemistry I	3				
			3		CHEM	341L	Organic Chemistry I Lab	1				
Wellness (W)			2 Sem Credits		CHEM	342	Organic Chemistry II	3				
			2		CHEM	342L	Organic Chemistry II Lab	1				
Cultural Diversity					CHEM	364	Physical Chemistry I	4				
			3		CHEM	365	Physical Chemistry II	4				
Global Perspectives					CHEM	425	Inorganic Chemistry I	3				
GEOL	105	Physical Geology			CHEM	431	Analytical Chemistry I	3				
<b>Professional Education Requirements - 31 Credits Required</b>			A GPA of 2.75 or better in professional education as well as the Exit Portfolio are required to exit the program.					CHEM	431L	Analytical Chemistry I Lab	2	
					CHEM	491	Seminar (Senior Capstone)	2				
<b>Course</b>	<b>Number</b>	<b>Course Title</b>	<b>Credits</b>	<b>Grade</b>	<b>HP</b>	PHYS	251	University Physics I	4			
EDUC	321	Introduction to Teaching	3			PHYS	251L	University Physics I Lab	1			
EDUC	322	Educational Psychology	3			PHYS	252	University Physics II	4			
EDUC	381	Early Experience	1			PHYS	252L	University Physics II Lab	1			
EDUC	451	Instruc Plan, Methods & Assess	3			MATH	165	Calculus I	4			
EDUC	481	Classroom Prac/Meth of Teach I-Science	3			MATH	166	Calculus II	4			
EDUC	485	Student Teaching Seminar	1			MATH	259 or 265	Multivariate Calculus OR Calculus III	3 or 4			
EDUC	486	Classroom Mgt for Diverse Learners	2			MATH	266	Intro to Differential Equations	3			
EDUC	487	Student Teaching	9			<b>Department Requirements - 2 Credits Required</b>						
EDUC	488	Applied Student Teaching	3			Other dept. requirements are already listed in the Science & Technology category of Gen Ed.						
EDUC	489	Native Am. & Multicult Instr Prac	3			GEOL	105L	Physical Geology Lab	1			
<small>^HD&amp;E 189 is required for students with fewer than 24 earned transfer credits.                      ~First year students with a composite ACT score of <math>\geq 21</math> should register for ENGL 120 (unless transfer credit for ENGL 120 is received). If ENGL 120 is completed with a grade of "C" or better, three credits will be awarded for ENGL 110 with a passing grade (P). For more details on NDSU's English Placement process, go to <a href="http://www.ndsu.edu/cfwriters">www.ndsu.edu/cfwriters</a>.</small>					*See School of Education admission requirements.							
					All courses listed on this curriculum guide are required for the major.							
<b>Total Credits Required for Graduation:</b>								<b>139</b>				