

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

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

2006

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

General Education Requirements - 37 Credits Required					Teaching Specialty Requirements - 67 Credits Required				
Course	Number	Course Title	Credit	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>Credit</b>	<b>Grade</b>
HD&E	189	Skills for Academic Success	1		BIOL	150 or 151	General Biology I OR General Biology I	3	
Communications Category (C)			9 Sem Credits		BIOL	150L	General Biology I Lab OR	1	
*ENGL	110	College Composition I	3			151L	General Biology I Lab		
*ENGL	120	College Composition II	3		BIOC	460	Foundations of Biochemistry	4	
*COMM	110	Fund of Public Speaking	3		<b>Select Sequence A or B</b>				
Quantitative Reasoning (R)			3 Sem Credits		<b>A)</b>	CHEM	121	General Chemistry I	3
STAT	330	Introductory Statistics	3			CHEM	121L	General Chemistry I Lab	1
Science & Technology (S)			10 Sem Credits			CHEM	122	General Chemistry II	3
BIOL	124	Environmental Science	3			CHEM	122L	General Chemistry II Lab	1
BIOL	124L	Environmental Science Lab	1		<b>B)</b>	CHEM	150	Principles of Chemistry I	3
GEOL	105	Physical Geology	3			CHEM	160	Principles of Chemistry I Lab	1
GEOL	106	The Earth Through Time	3			CHEM	151	Principles of Chemistry II	3
Humanities & Fine Arts (A)			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	
Social & Behavioral Sciences Category (B)			6 Sem Credits		CHEM	342	Organic Chemistry II	3	
			3		CHEM	342L	Organic Chemistry II Lab	1	
			3		CHEM	364	Physical Chemistry I	4	
Wellness (W)			2 Sem Credits		CHEM	365	Physical Chemistry II	4	
			2		CHEM	425	Inorganic Chemistry I	3	
Cultural Diversity					CHEM	431	Analytical Chemistry I	3	
					CHEM	431L	Analytical Chemistry I Lab	2	
Global Perspectives					CHEM	491	Seminar (Senior Capstone)	2	
					PHYS	251	University Physics I	5	
<b>Professional Education Requirements - 32 Credits Required</b>					PHYS	251L	University Physics I Lab	1	
A GPA of 2.75 or better in professional education as well as the Exit Portfolio are required to exit the program.					PHYS	252	University Physics II	4	
<b>Course</b>	<b>Number</b>	<b>Course Title</b>	<b>Credit</b>	<b>Grade</b>	PHYS	252L	University Physics II Lab	1	
EDUC	321	Introduction to Teaching	3		MATH	165	Calculus I	4	
EDUC	322	Educational Psychology	3		MATH	166	Calculus II	4	
EDUC	381	Early Experience	1		MATH	259 or 265	Multivariate Calculus OR Calculus III	3	
EDUC	451	Instruc Plan, Methods & Assess	3		MATH	266	Intro to Differential Equations	3	
EDUC	481	Classrm Prac/Meth of Teach I-Scienc	3		<b>Department Requirements</b>				
EDUC	485	Student Teaching Seminar	1		Other dept. requirements are already listed in the Science & Technology category of Gen Ed.				
EDUC	486	Classrm Mgt for Diverse Learners	2		GEOL	105L	Physical Geology Lab	1	
EDUC	487	Student Teaching	9		GEOL	106L	The Earth Through Time Lab	1	
EDUC	488	Applied Student Teaching	3		<b>All courses listed on this curriculum guide are required for the major.</b>				
EDUC	494	Field Experience	1		<b>Total Credits Required for Graduation:</b>				<b>138</b>
EDUC	489	Native Am. & Multicult Instr Prac	3						

\*See School of Education admission requirements.