

COLLEGE OF HUMAN DEVELOPMENT & EDUCATION

MAJOR: CHEMISTRY EDUCATION

ACADEMIC YEAR: 2013-2014 DEGREE TYPE: B.A. or B.S.

REQUIRED DEGREE CREDITS TO GRADUATE: 136

GENERAL EDUCATION REQUIREMENTS - 40 CREDITS

Lower Division Requirements – 37 Credits

First Year Experience (F) - 1 Credit

HD&E 189 Skills for Academic Success 1 cr Students transferring in 24 or more credits do not need to take HD&E 189.

Communication (C) - 9 Credits

ENGL	110	College Composition I	3 cr
ENGL	120	College Composition II	3 cr
COMM	110	Fund of Public Speaking	3 cr

Quantitative Reasoning (R) - 3 Credits

STAT	330	Introductory Statistics	3 cr
------	-----	-------------------------	------

Science & Technology (S) - 10 Credits

BIOL	124/L	Environmental Science/Lab	3/1 cr
GEOL	105	Physical Geology	3 cr
GEOL	106	The Earth Through Time	3 cr

Humanities & Fine Arts (A) - 6 Credits

Select from current general education courses www.ndsu.edu/registrar/gened/

Social & Behavioral Sciences (B) - 6 Credits

Select from current general education courses www.ndsu.edu/registrar/gened/

Wellness (W) - 2 Credits

Select from current general education courses www.ndsu.edu/registrar/gened/

Cultural Diversity (D)

Select from current general education courses www.ndsu.edu/registrar/gened/

Global Perspectives (G)

GEOL 105 Physical Geology

Upper Division Requirements - Writing – 3 Credits

ENGL 324 Writing in the Sciences 3 cr

Bachelor of Arts (BA) Degree – An additional 6 credits of Humanities and Social Sciences and two years of one modern foreign language at the college level or equivalent are required.

PROFESSIONAL EDUCATION REQUIREMENTS - 31 CREDITS				
EDUC	321	Introduction to Teaching	3 cr	
EDUC	322	Educational Psychology	3 cr	
EDUC	451	Inst. Planning, Methods & Assess	3 cr	
EDUC	481	Classroom Prac/Meth of Teach I-Science	3 cr	
EDUC	485	Student Teaching Seminar	1 cr	
EDUC	486	Classroom Mgt. for Diverse Learn	3 cr	
EDUC	487	Student Teaching	9 cr	
EDUC	488	Applied Student Teaching	3 cr	
EDUC	489	Native American & Multicultural Instructional Prac	3 cr	
TEACH	IING SP	ECIALITY REQUIREMENTS - 63 CREDITS		
BIOL	150/Lor	General Biology I/Lab	3/1 cr	
	151/L	General Biology II/Lab		
BIOC	460	Foundations of Biochemistry	3 cr	
CHEM	341/L	Organic Chemistry I/Lab	3/1 cr	
CHEM	342/L	Organic Chemistry II/Lab	3/1 cr	
CHEM	364	Physical Chemistry I	3 cr	
CHEM	365	Physical Chemistry II	3 cr	
CHEM		Inorganic Chemistry I	3 cr	
CHEM	431/L	Analytical Chemistry I/Lab	3/2 cr	
CHEM	491	Seminar (Senior Capstone)	2 cr	
PHYS	251/L	University Physics I/Lab	4/1 cr 4/1 cr	
PHYS	252/L	University Physics II/Lab		
MATH	165	Calculus I		
MATH		Calculus II	4 cr	
MATH	259 or	Multivariate Calculus	3or 4 c	
	265	Calculus III		
MATH		Intro to Differential Equations	3 cr	
		ee A or B		
	uence A			
	HEM	121/L General Chemistry I/Lab	3/1 cr	
C	CHEM	122/L General Chemistry II/Lab	3/1 cr	
-	uence B			
_	HEM	150/160 Principles of Chemistry I/Lab	3/1 cr	
		51/161 Principles of Chemistry II/Lab	3/1 cr	
		equirements – 2 Credits		
GEOL	105L	Physical Geology Lab	1 cr	
GEOL	106L	The Earth Through Time Lab	1 cr	

Degree Requirements and Notes:

- Courses taken *Pass/Fail* may not be used to satisfy any requirements.
- GPA of 2.75 or better in the teaching specialty is required for placement in student teaching and exit from the program.
- A grade of 'C' or better is required in all Professional Education Requirement courses.
- 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.
- See School of Education for admission requirements.