



B.S. Ed. with Major in Science

(Effective for students attending UND prior to Fall 2008)

University of North Dakota
Department of Teaching and Learning

Student _____ ID # _____

Advisor: _____ Date _____ Admitted to T&L _____

General Education Requirements (39 Units)

Communication 9 Units

Course	Units	Grade
English 110	3	
English 120 or 125	3	

Social Science 9 Units from a minimum of 2 departments

Arts & Humanities 9 Units from a minimum of 2 departments

Math, Science & Technology 12 Units from a minimum of 2 departments. Must include 1 lab science.

Science	3	
Lab	1	

World Cultures Requirement Satisfied with _____

Education Program Requirements

Introductory Courses (3 Units) (Pre-admission Course)

Introductory course should be taken the semester you make formal application to the Teacher Education Program.

T&L 250 Introduction to Education	3	
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T&L 339 Technology for Teachers	2	
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Education Department Courses– Must be formally admitted to the Teacher Education Program to take the courses listed below.

T&L 345 Curriculum Development	3	
T&L 350 Dev. & Ed of Adolescent	3	
* T&L 386 Field Experience	1	
T&L 432 Classroom Management	3	
T&L 433 Multicultural Education	3	

**T&L 400 Methods & Materials: Science	3	
**T&L 401 (Co-req of Science Mthds) School Science Safety	1	
T&L 486 (TL 400 Co-Req) Field Experience	1- 4	
* T&L 495 Independent Study	1- 2	

* denotes elective ** may be offered only certain semesters

Science Courses (72-73 Units)

Biology 14-15 Units		Units	Grade
Biol 150 & 150L General Biology I and lab		3 1	/
Biol 151 & 151L General Biology II and lab		3 1	/
Biol 312 Evolution		3	
Biol 332 & 332L General Ecology and Lab OR Biol 336 Systematic Botany OR Biol 315 Genetics		3-4	
Chemistry 12 Units			
Chem 121 & 121L General Chemistry I and lab		3 1	/
Chem 122 & 122L General Chemistry II and lab		3 1	/
Chem 333 & 333L Introduction to Environmental, Clinical & Forensic Analysis		4	/
Physics 12 Units (Option 1: Physical Science Emphasis OR Option 2: Biology Emphasis)			
Option 1 {	Phys 251 & 251L University Physics I and lab (Physics and Chemistry emphasis)	3 1	/
	Phys 252 & 252L University Physics II and lab	3 1	/
	Phys 253 & 235L University Physics III and lab	3 1	/
	Phys 211 & 211L College Physics I and lab (Biology emphasis)	3 1	/
Option 2 {	Phys 212 & 212L College Physics II and lab	3 1	/
	Phys 213 & 213L College Physics III and lab	3 1	/
Earth Science 12 Units			
Geog 121 & 121L Physical Geography and lab OR Geog 134 & 134L Introduction to Global Climate and lab		3 1	/
Geol 101 & 101L Introduction to Geology and lab OR Geol 102 & 102L The Earth Through Time and lab		3 1	/
Phys 110 & 110L Introduction to Astronomy and Lab		3 1	/
Mathematics 11 Units			
Math 165 Calculus I		4	
Math 166 Calculus II		4	
Statistics (Either Math 321 or Psys 241 or Econ 210)		3	
Additional Courses to fulfill 24 units requirement in one Science Area (9-10 Biology, 12 Chemistry, 12 Physics, or 12 Earth Science)			
		4	
		4	
		4	

Practica (17 Units) PRAXIS II will need to be taken prior to student teaching. Visit the ETS web site (www.ets.org/praxis) for the appropriate test required.

T&L 487 Student Teaching	16	
T&L 488 Senior Seminar	1	

Students are strongly encouraged to earn a minor in biology, chemistry, or physics when the B.S. Ed. in Science is their degree program.

Programs preparing teacher educators and other school related personnel at UND are in compliance with the Title II, Higher Education Act and have reported their information to the North Dakota Education Standards and Practices Board.