Teaching Specialty - Biological Sciences

Major Requirements

Major: Biological Sciences Education

Degree Type: B.A. or B.S.

Required Degree Credits to Graduate: 140

General Education Requirements

First Year Experience (F):

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

Communication (C):

Communication	(0).		
ENGL 110	College Composition I	3	
ENGL 120	College Composition II	3	
ENGL 324	Writing in the Sciences	3	
COMM 110	Fundamentals of Public Speaking	3	
Quantitative Reasoning (R):			
MATH 146	Applied Calculus I	4	
Science & Technology (S):			
The 10 credits required in the Science and Technology category will be satisfied by completing the requirements for the teaching specialty.			
Humanities & Fine Arts (A): Select from current general education list			
Social & Behavioral Sciences (B): Select from current general education list			

Wellness (W): Select from current general education list Cultural Diversity (D): Select from current general education list

Physical Geology

Major Requirements

Global Perspectives (G):

GEOL 105

Total Credits

General Education Requirements			
Professional Education Requirements			
EDUC 321	Introduction to Teaching	3	
EDUC 322	Educational Psychology	3	
EDUC 451	Instructional Planning, Methods and Assessment	3	
EDUC 481	Classroom Practice Methods of Teaching I: (Science)	3	
EDUC 485	Student Teaching Seminar	1	
EDUC 486	Classroom Management for Diverse Learners	3	
EDUC 487	Student Teaching	9	
EDUC 488	Applied Student Teaching	3	
EDUC 489	Teaching Students of Diverse Backgrounds	3	
Teaching Specialty Requirements			
BIOL 124 & 124L	Environmental Science and Environmental Science Laboratory	4	

Select one of the following: BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics & 315L and Genetics Laboratory Botony Elective 300-400 Level Elective CHEM 121 General Chemistry I & 121L and General Chemistry I Laboratory CHEM 122 General Chemistry II & 122L and General Chemistry II Laboratory CHEM 240 Survey of Organic Chemistry CHEM 260 Elements of Biochemistry GEOL 105 Physical Geology & 105L and Physical Geology Lab GEOL 106 The Earth Through Time & 106L and The Earth Through Time Lab PHYS 211 College Physics I & 211L and College Physics I Laboratory PHYS 212 College Physics II Laboratory STAT 330 Introductory Statistics ZOO 370 Cell Biology Zoology Elective 300-400 Level Elective Computer Elective	4 4 3 4 4 4 4 3 3 3 3 3
BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics & 315L and Genetics Laboratory Botony Elective 300-400 Level Elective CHEM 121 General Chemistry I & 121L and General Chemistry I Laboratory CHEM 122 General Chemistry II & 122L and General Chemistry II Laboratory CHEM 240 Survey of Organic Chemistry CHEM 260 Elements of Biochemistry GEOL 105 Physical Geology & 105L and Physical Geology Lab GEOL 106 The Earth Through Time & 106L and The Earth Through Time Lab PHYS 211 College Physics I & 211L and College Physics I Laboratory PHYS 212 College Physics II & 212L and College Physics II Laboratory STAT 330 Introductory Statistics ZOO 370 Cell Biology Zoology Elective 300-400 Level Elective	4 3 4 4 4 4 3 3 3 3
BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics & 315L and Genetics Laboratory Botony Elective 300-400 Level Elective CHEM 121 General Chemistry I & 121L and General Chemistry I Laboratory CHEM 122 General Chemistry II Laboratory CHEM 124 and General Chemistry II Laboratory CHEM 240 Survey of Organic Chemistry CHEM 260 Elements of Biochemistry GEOL 105 Physical Geology & 105L and Physical Geology Lab GEOL 106 The Earth Through Time & 106L and The Earth Through Time Lab PHYS 211 College Physics I & 211L and College Physics I Laboratory PHYS 212 College Physics II & 212L and College Physics II Laboratory STAT 330 Introductory Statistics ZOO 370 Cell Biology	4 3 4 4 4 4 3 3
BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics & 315L and Genetics Laboratory Botony Elective 300-400 Level Elective CHEM 121 General Chemistry I & 121L and General Chemistry I Laboratory CHEM 122 General Chemistry II Laboratory CHEM 122 General Chemistry II Laboratory CHEM 240 Survey of Organic Chemistry CHEM 260 Elements of Biochemistry GEOL 105 Physical Geology & 105L and Physical Geology Lab GEOL 106 The Earth Through Time & 106L and The Earth Through Time Lab PHYS 211 College Physics I & 211L and College Physics I Laboratory PHYS 212 College Physics II & 212L and College Physics II Laboratory STAT 330 Introductory Statistics	4 3 4 4 4 4 3
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BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics & 315L and Genetics Laboratory Botony Elective 300-400 Level Elective CHEM 121 General Chemistry I & 121L and General Chemistry I Laboratory CHEM 122 General Chemistry II & 122L and General Chemistry II Laboratory CHEM 240 Survey of Organic Chemistry CHEM 260 Elements of Biochemistry GEOL 105 Physical Geology & 105L and Physical Geology Lab GEOL 106 The Earth Through Time & 106L and The Earth Through Time Lab PHYS 211 College Physics I & 211L and College Physics I Laboratory CHYS 212 College Physics II	4 3 4 4 4
BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics & 315L and Genetics Laboratory Botony Elective 300-400 Level Elective CHEM 121 General Chemistry I & 121L and General Chemistry I Laboratory CHEM 122 General Chemistry II & 122L and General Chemistry III Laboratory CHEM 240 Survey of Organic Chemistry CHEM 260 Elements of Biochemistry GEOL 105 Physical Geology & 105L and Physical Geology Lab GEOL 106 The Earth Through Time & 106L and The Earth Through Time Lab PHYS 211 College Physics I	4 4 3 4 4
BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics & 315L and Genetics Laboratory Botony Elective 300-400 Level Elective CHEM 121 General Chemistry I & 121L and General Chemistry I Laboratory CHEM 122 General Chemistry II & 122L and General Chemistry II Laboratory CHEM 240 Survey of Organic Chemistry CHEM 260 Elements of Biochemistry GEOL 105 Physical Geology & 105L and Physical Geology Lab GEOL 106 The Earth Through Time & 106L and The Earth Through Time Lab	4 4 3 4 4
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BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics & 315L and Genetics Laboratory	Ŭ
BOT 315 Genetics & 315L and Genetics Laboratory ZOO 315 Genetics	3
BOT 315 Genetics & 315L and Genetics Laboratory	
Select one of the following:	
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BIOL 491 Seminar (Capstone)	2
BIOL 359 Evolution	3
BIOL 364 General Ecology	3
BIOL 221 Human Anatomy and Physiology II & 221L and Human Anatomy and Physiology II Laborato	4 ry
BIOL 220 Human Anatomy and Physiology I & 220L and Human Anatomy and Physiology I Laborator	4 y
BIOL 151 General Biology II & 151L and General Biology II Laboratory	4
BIOL 150 General Biology I & 150L and General Biology I Laboratory	4

Degree Requirements and Notes

3

41

- Courses taken P/F 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 (http://www.ndsu.edu/education) for admission requirements.