

Teaching Specialty - Earth Science

Major Requirements

Major: Earth Science Education

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

Required Degree Credits to Graduate: 139

General Education Requirements

First Year Experience (F):

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

ENGL 110	College Composition I	3
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ENGL 120	College Composition II	3
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ENGL 324	Writing in the Sciences	3
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COMM 110	Fundamentals of Public Speaking	3
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Quantitative Reasoning (R):

MATH 165	Calculus I	4
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Science & Technology (S):

The 10 credits required in the Science and Technology category will be satisfied by completing the requirements for the teaching specialty.	10
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Humanities & Fine Arts (A): Select from current general education list	6
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Social & Behavioral Sciences (B): Select from current general education list	6
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Wellness (W): Select from current general education list	2
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Cultural Diversity (D): Select from current general education list	
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Global Perspectives (G):	
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GEOL 105	Physical Geology	3
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Total Credits	41
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Major Requirements

General Education Requirements	40
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Earth Science Education Requirements	
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GEOL 105	Physical Geology	4
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& 105L	and Physical Geology Lab	
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GEOL 106	The Earth Through Time	4
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& 106L	and The Earth Through Time Lab	
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STAT 330	Introductory Statistics	3
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Professional Education Requirements	
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EDUC 321	Introduction to Teaching	3
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EDUC 322	Educational Psychology	3
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EDUC 451	Instructional Planning, Methods and Assessment	3
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EDUC 481	Classroom Practice Methods of Teaching I: (Science)	3
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EDUC 485	Student Teaching Seminar	1
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EDUC 486	Classroom Management for Diverse Learners	3
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EDUC 487	Student Teaching	9
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EDUC 488	Applied Student Teaching	3
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EDUC 489	Teaching Students of Diverse Backgrounds	3
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Teaching Specialty Requirements	
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BIOL 124	Environmental Science	4
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& 124L	and Environmental Science Laboratory	
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BIOL 150	General Biology I	4
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& 150L	and General Biology I Laboratory	
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BIOL 151	General Biology II	4
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& 151L	and General Biology II Laboratory	
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Biological Sciences Elective	Elective	3
CHEM 121 & 121L	General Chemistry I and General Chemistry I Laboratory	4
CHEM 122 & 122L	General Chemistry II and General Chemistry II Laboratory	4
Chemistry Elective	Elective	4
GEOL 303 & GEOL 350	Paleontology Field Course and Invertebrate Paleontology	4
GEOL 412	Geomorphology	3
GEOL 420 & GEOL 421	Mineralogy and Mineralogy Laboratory	4
GEOL 422	Petrology	3
GEOL 423	Petrography	1
GEOL 491	Seminar	1
Geology Electives	Electives	6
PHYS 110	Introductory Astronomy	3
PHYS 211 & 211L	College Physics I and College Physics I Laboratory	4
PHYS 212 & 212L	College Physics II and College Physics II Laboratory	4
SOIL 217	Introduction to Meteorology & Climatology	3
CSCI 122	Visual BASIC	3
Total Credits		139

Degree Requirements and Notes

- 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 (<https://www.ndsu.edu/education>) for admission requirements.