# Teaching Specialty - Earth Science 2014

## 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**

**Communication (C):**
- 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 165  
  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.  
  **10**

**Humanities & Fine Arts (A):** Select from current general education list  
**6**

**Social & Behavioral Sciences (B):** Select from current general education list  
**6**

**Wellness (W):** Select from current general education list  
**2**

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

**Global Perspectives (G):**
- GEOL 105  
  Physical Geology  
  **3**

**Total Credits:**  
**41**

### Major Requirements

**General Education Requirements**  
**40**

**Earth Science Education Requirements**
- GEOL 105  
  Physical Geology  
  **4**
- & 105L  
  and Physical Geology Lab  
- GEOL 106  
  The Earth Through Time  
  **4**
- & 106L  
  and The Earth Through Time Lab  
- STAT 330  
  Introductory Statistics  
  **3**

**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  
  Native Americans and Multicultural Instructional Practices  
  **3**

**Teaching Specialty Requirements**
- BIOL 124  
  Environmental Science  
  **4**
- & 124L  
  and Environmental Science Laboratory  
- BIOL 150  
  General Biology I  
  **4**
- & 150L  
  and General Biology I Laboratory
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
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<td>BIOL 151 &amp; 151L</td>
<td>General Biology II and General Biology II Laboratory</td>
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<td>Biological Sciences Elective</td>
<td>Elective</td>
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<tr>
<td>CHEM 121 &amp; 121L</td>
<td>General Chemistry I and General Chemistry I Laboratory</td>
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<tr>
<td>CHEM 122 &amp; 122L</td>
<td>General Chemistry II and General Chemistry II Laboratory</td>
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<tr>
<td>Chemistry Elective</td>
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<td>GEOL 303 &amp; GEOL 350</td>
<td>Paleontology Field Course and Invertebrate Paleontology</td>
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<td>GEOL 412</td>
<td>Geomorphology</td>
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<td>Mineralogy and Mineralogy Laboratory</td>
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<td>Petrology</td>
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<td>PHYS 110</td>
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<td>PHYS 211 &amp; 211L</td>
<td>College Physics I and College Physics I Laboratory</td>
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<tr>
<td>PHYS 212 &amp; 212L</td>
<td>College Physics II and College Physics II Laboratory</td>
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<td>SOIL 217</td>
<td>Introduction to Meteorology &amp; Climatology</td>
<td>3</td>
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<td>CSCI 122</td>
<td>Visual BASIC</td>
<td>3</td>
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**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 (http://www.ndsu.edu/education) for admission requirements.