Earth Sciences (7-12)
Teacher Licensure Requirements

Program Requirements

Gen Ed: Satisfactory completion of all general education requirements (generally 55 sem hrs).

Major: Satisfactory completion of a major in Geology (31-32 sem hrs) plus coursework in related sciences for a total of at least 58 sem hrs in the sciences. For students seeking a B.S. degree, see the current Academic Catalog for courses required beyond what is listed below.

Education: Satisfactory completion of a minor in education (34 sem hrs). Before being admitted to the Teacher Education Program, the student must first demonstrate Math competency by earning a grade of C- or higher in a 4 sem hr course that fulfills the general education quantitative reasoning requirement (courses designated with a "Q").

Note: All courses in the teaching field must be passed with grades of C- or higher. See the Academic Catalog for additional requirements for admission and continuance in the program. Courses may not be offered every year. Be sure to check with the department for schedule of course offerings.

Required in Geology (31-32 sem hrs)

___ Introductory Physical Geology (one from the following courses)
   ___ Geol 150  Physical Geology (5)
   ___ Geol 160  Environmental Geology (5) and
      Geol 151  Physical Geology Lab Practicum (1)
   ___ Geol 170  Geology of the Critical Zone (5) and
      Geol 151  Physical Geology Lab Practicum (1)
   ___ Geol 110-115  Topical sections of introductory physical geology (4) and
      Geol 151  Physical Geology Lab Practicum (1)

___ Geol 230  Mineralogy and Optical Mineralogy (5)
___ Geol 240  Process Geomorphology (5)
___ Geol 260  Sedimentology (5)
___ Geol 315  Watershed Hydrology (4)
___ Geol 340  Earth History (5)
___ Geol 392  Junior Seminar (1)
___ Geol 492  Senior Seminar (1)

Required from Related Departments (28 sem hrs)

___ Biol 180  Concepts in Biology: Biological Energy and Resources (5)
___ Chem 121  Models of Chemical Systems (5)
___ Phys 107  Astronomy (4)
___ Phys 200  Mechanics and Waves (5)
___ Geog 222  Weather and Climate (5)
___ Statistics (one from the following courses)
   ___ Math 127  Introductory Statistics (4) (Recommended)
   ___ Math 227  Data Analysis (4)
   ___ Psyc 107  Statistics (4)
   ___ Busn 110  Business and Economic Statistics (4)
Required in Education (34 sem hours)

Note: All education courses must be passed with grades of C- or higher. See academic catalog for additional requirements for admission to and continuance in the program.

Entry-Level Courses (prior to application for teacher candidacy)

___ Educ 103 S  Sociological Perspectives in Education (4)
or,  Educ 104 R  Philosophical Perspectives in Education (4)
___ Educ 112  Human Development & Learning Theory: Middle Childhood through Young Adult (2)
___ Educ 120  Introduction to Students with Special Needs (2)
(Educ 112 and 120 are to be taken concurrently)

Advanced Courses (admission to teacher candidacy required)

___ Educ 304  Responsive Schools the Middle Grades (2) (offered Fall & Spring semesters)
___ Educ 306  Teaching and Learning in the High School (4) (offered Spring semester only)
___ Educ 312  Reading and Writing in Content Areas (4) (offered Fall semester only)

Student Teaching

Application for permission to student teach must be submitted early spring term of the junior year. The student teaching term will consist of methods courses, followed by the full-time student teaching placement. Other coursework, if taken, must be scheduled for late afternoon or evenings during the term.

___ Educ 342  Including Students with Special Needs in Mid/Sec Classes (2) (offered Spring semester only)
___ Educ 348  Teaching Science in Secondary Schools (2) (offered Spring semester only)
___ Educ 495  Student Teaching  (12)

Additional Education Requirements:

___ Successful completion of State Board of Education Examinations
    (Complete during the senior year)

Note: Changes in this program of study must be approved by the chairperson of the major department and the Director of Teacher Licensure, Wittenberg University.