Adolescent Young Adult Earth Science Licensure (7-12)

Program Requirements
General 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 (36 sem hrs) as described below. Prior to being admitted to the Teacher Education Program, the student must demonstrate Math competency by earning a grade of C- or higher in a 4 credit course that fulfills the general education quantitative reasoning requirement. (Course designated with a “Q”)

Requirements for AYA Licensure
All courses must be passed with a grade of C- or above. See the Academic Catalog for additional requirements for admission and continuation in the program. Courses may not be offered every year. Check the department schedules for course offerings.

Required in Education
Entry-Level Courses (Taken prior to application for teacher candidacy)

- EDUC 103S Sociological Perspectives in Education (4)
- EDUC 104R Philosophical Perspectives in Education (4)
- EDUC 105 Educational Psychology (2)
- EDUC 120 Introduction to Students with Special Needs (2) (Taken concurrently with EDUC 105)
- EDUC 213 Adolescent Development and Education (3)
- EDUC 214 Practicum: Middle/Secondary (1)

Advanced Courses (Taken following admission to teacher candidacy)

- EDUC 312 Reading & Writing in the Content Areas (3) Spring Only
- EDUC 313 Practicum: Literacy (1)
- EDUC 342 Including Students w/Special Needs Middle/Secondary (2) Fall/Spring Even Years
- EDUC 348 Teaching Science in Secondary Schools (3) Fall Odd Years
- EDUC 388 Practicum: Science (1) Fall Odd Years

Student Teaching
Application for permission to student teach must be submitted early spring term of junior year. Other coursework, if taken, must be scheduled for late afternoon or evenings during the term.

- EDUC 495 Student Teaching (12)
- EDUC 496 Student Teaching Seminar (2)

Additional Requirement for Adolescent Young Adult Licensure
Successful completion of the required licensure examinations.

Note: Any change(s) in this program of study must be approved by the Chairperson of the major department and the Director of Teacher Licensure, Wittenberg University.

Earth Science 7-12
**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)
___ ESCI 100  Climate Change (4)

___ Statistics (one of the following courses)

___ Math 127  Introductory Statistics (4) Recommended
___ Math 227  Data Analysis (4)
___ Psyc 201  Statistics (4)
___ Busn 210  Business & Economic Statistics (4)