Chemistry (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 B.A. in Chemistry (41 sem hrs) plus coursework in additional areas for a total of 69 sem hrs.

Education: Satisfactory completion of a minor in Education (34 sem hrs;) as described below. 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").

Electives: Additional electives, as needed, to meet graduation requirement of 130 semester hours.

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 Chemistry (41 sem hrs)

Chem 121 - Models of Chemical Systems I (5)
Chem 162 – Models of Chemical Systems II (5)
Chem 201 – Introduction to Organic Chemistry (5)
Chem 271 – Principles of Biochemistry (4)
Chem 281 - Analytical Chemistry (5)
Chem 300 - Junior Seminar (1)
Chem 302 – Intermediate Organic Chemistry (5)
Chem 311 – Thermodynamics and Kinetics (5)
Chem 321 - Inorganic Chemistry (5)
Chem 400 - Senior Seminar (1)

Required in Related Departments (28 sem hrs)

Math 201 - Calculus I (4)
Math 202 - Calculus II (4)
Phys 200 - Mechanics and Waves (5)
Phys 218 – Introductory Electromagnetism (5)
OR
Phys 205 Topics in Classical and Modern Physics (5)

Biol 170 -- Concepts of Biology: Biological Information, Reproduction, and Evolution (5)
OR, Biol 180 – Concepts of Biology: Energy and Resources in Biology (5)

Geol 150 – Physical Geology (5)
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 for 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.