Integrated Mathematics (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 Mathematics (42 sem hrs) plus coursework in Computer Science for a total of 47 sem hrs, or students may complete a B.S. in Mathematics (50 sem hrs) plus coursework in related areas for a total of 67 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.

For licensure based on a B.A. in Mathematics (47 sem hrs)

Required in Math (42 sem hrs)

___ Math 201* Calculus I (4)
___ Math 202 Calculus II (4)
___ Math 205 Applied Matrix Algebra (4)
___ Math 210 Fundamentals of Analysis (4)
___ Math 221 Foundations of Geometry (4) *(Offered fall semester of odd-numbered years.)
___ Math 227 Data Analysis (4)
___ Math 360 Linear Algebra (4)
___ Math 365 Abstract Algebra (4)
___ Math 460 Senior Seminar (2)
___ Math 2xx, 4 semester hours at 200-level or above (4)
___ Math 3xx, 4 semester hours at 300-level or above (4) *(For B.S. candidates, this should be MATH 370.)

*(Prerequisite is Math 120, unless level 25 was achieved on the math placement test. Credit for Math 120 would be in addition to the 42 sem. cr. shown above.)

Required in Related Departments (5 sem hrs)

___ Comp 150 Computer Programming I (5)

For licensure based on a B.S. in Mathematics (67 sem hrs)

Complete the above-listed coursework plus the following:

___ Math xxx 8 semester hours at 200-level or above
___ Math 370 Real Analysis (4) *(See note of B.A. 3xx requirement.)
___ Comp xxx 4 semester hours at 250-level or above
___ Any 8 sem hr sequence in biology, chemistry, economics, geology, physics, or psychology (or other area) approved by the Math and Computer Science Department

*(continued)
**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  Curriculum and Instruction for 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 Middle & Secondary Grades (2) *(offered Spring semester only)*

___ Educ 347  Teaching Math 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.