Teaching Specialty - Mathematics

Major Requirements

Major: Mathematics Education

Degree Type: B.A. or B.S.
Required Degree Credits to Graduate: 122

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
One Course in Upper Level Writing. Select from current general education list 3
COMM 110  Fundamentals of Public Speaking 3

Quantitative Reasoning (R):
MATH 165  Calculus I 4

Science & Technology (S):
A one-credit lab must be taken as a co-requisite with a general education science/technology course unless the course includes an embedded lab experience equivalent to a one-credit course. Select from current general education list 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 1
Global Perspectives (G): Select from current general education list 1

Total Credits 41

Major Requirements

A grade of ‘C’ or better is required in all Teaching Specialty requirement courses and the Professional Education requirement courses.

General Education Requirements

Teaching Specialty Requirements

CSCI 160  Computer Science I 4
MATH 165  Calculus I 4
MATH 166  Calculus II 4
MATH 265  Calculus III 4
MATH 270  Introduction to Abstract Mathematics 3
MATH 374  Special Problems in Mathematics 1
MATH 420  Abstract Algebra I 3
MATH 429  Linear Algebra 3
MATH 440  Axiomatic Geometry 3
MATH 450  Real Analysis I 3
MATH 478  History of Mathematics 3
STAT 367  Probability 3
STAT 368  Statistics 3

Mathematics Courses
Select two 300-400 level MATH courses approved by the department. MATH 266 may be used as one of these electives. 6

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: (Math) 3
Degree Requirements and Notes

- A GPA of 2.75 or better in the teaching specialty is required for placement in student teaching and exit from the program.
- 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.
- Courses taken Pass/Fail will not be used to satisfy any requirements other than total credits.
- See School of Education (https://www.ndsu.edu/education) for admission requirements.

*If double majoring in mathematics and mathematics education, take STAT 467 Probability and Mathematical Statistics I and STAT 468 Probability and Mathematical Statistics II in place of STAT 367/368. And MATH 421 Abstract Algebra II and MATH 451 Real Analysis II should be taken as electives.