

a. MINOR IN ELEMENTARY MATHEMATICS EDUCATION

The Department of Mathematical Sciences of Northern Illinois University requires the following courses. This minor is available only to undergraduates majoring in elementary education.

Minor in Elementary Mathematics Education

- MATH 201, Foundations of Elementary School Mathematics
- MATH 229, Calculus I
- MATH 302, Introduction to Geometry
- MATH 402, Methods of Instruction in the Mathematics Curriculum for the Elementary School
- MATH 410, Methods of Instruction in the Mathematics Curriculum for the Middle School
- STAT 301, Elementary Statistics
- One of the following courses:
 - MATH 206, Introductory Discrete Mathematics
 - MATH 210, Finite Mathematics
 - MATH 303, Introduction to Number Theory *
 - MATH 304, History of Mathematics through the 17th Century *

A minimum GPA of 2.25 in all courses counted for credit toward the minor numbered above MATH 201 is required. Six or more semester hours in the minor must be taken at NIU.

(At the discretion of the NIU Department of Mathematical Sciences, other courses also may be found acceptable. See <http://www.math.niu.edu> or visit the math office, Watson Hall 320, 815/753-0566, for further information.)

Elementary Mathematics Minor Advisor: Ms. Nancy Leifheit, DuSable Hall 376, 815/753-1143.

IMPORTANT TO NOTE: Provided that MATH 303 or MATH 304 is chosen as an elective, this minor meets the minimal mathematics requirement for an endorsement to teach mathematics in grades 6-8 in Illinois. TLCI 422, Middle School Organization & Instruction, and EPS 419, The Middle School Child, also are required by the state to be eligible to teach in the middle school.

b. ENDORSEMENT TO TEACH MATHEMATICS, GRADES 6-8

Minimum requirements for those individuals who will hold a valid Illinois teaching certificate, and wish an endorsement to teach mathematics, grades 6-8.

Endorsement to teach mathematics, grades 6-8

I.18 semester hours in the field, including:

- (a) 3 semester hours in the methods of teaching mathematics in grades 6-8
MATH 410 Methods of Instruction in the Mathematics Curriculum for the Middle School (3)

(b) 15 semester hours to be selected from four of the following areas:

- i) Math content courses for elementary teachers
MATH 201 Foundations of Elementary School Mathematics (3)
- ii) Calculus *
MATH 229 Calculus I (4) **STRONGLY SUGGESTED**
- iii) Modern algebra or number theory
MATH 303 Introduction to Number Theory (3)
or MATH 420 Algebra I (3)
or MATH 480 Number Theory (3)
- iv) Geometry
MATH 302 Introduction to Geometry (3)
or MATH 353 Geometry (3)
- v) Computer Science *
CSCI 215 Visual BASIC (4)
or CSCI 230 FORTRAN (4)
or CSCI 240 'C++' (4)
- vi) Probability and Statistics *
STAT 301 Elementary Statistics (4) **STRONGLY SUGGESTED**
- vii) History of Mathematics
MATH 304 History of Mathematics through the 17th Century (3)

II.6 semester hours to be eligible to teach in the middle school:

- (a) TLCI 422, Middle School Organization & Instruction
- (b) EPS 419, The Middle School Child

(* Other courses may also be found acceptable, contact the NIU Department of Mathematical Sciences, Dr. John Wolfskill, Assistant Chair, Watson Hall 320, 815/753-0566. <http://www.math.niu.edu>)

NOTE: MATH 229 (Calculus) is a prerequisite for many of these courses. Entering students should arrive with a pre-calculus course, e.g., MATH 155, completed OR take the mathematics placement test for entry into MATH 229.

Completing MATH 201, MATH 229, MATH 302, STAT 301, and either MATH 303 or MATH 304, meets the requirements for a MINOR IN ELEMENTARY MATHEMATICS EDUCATION. (A minimum GPA of 2.25 in all courses counted for credit toward the minor numbered above MATH 201 is required. Six or more semester hours in the minor must be taken at NIU.)

09/09/08