TEACHER EDUCATION MINOR IN MATHEMATICS, GRADES 9-12

For students in teacher education curricula other than mathematics who wish to be qualified to teach mathematics at the high school level.

E-mail: mathadvising@illinois.edu

Web address for department: www.math.illinois.edu (http://www.math.illinois.edu)

To obtain an endorsement to teach mathematics in grades 9-12, students must also pass the Illinois Certification Testing System Test in Mathematics. Information and practice exams are available at www.icts.nesinc.com.

MATH 220  Calculus 5
MATH 231  Calculus II (or equivalent) 3
MATH 241  Calculus III 4

Methods courses in the teaching of mathematics 3

CI 434  Teaching Secondary Math

A course covering topics in non-Euclidean geometry 3

MATH 402  Non Euclidean Geometry
or MATH 403  Euclidean Geometry

At least 7 hours of work from at least two of the following areas: 7

Computer Science (one course only)
CS 101 Intro Computing: Engrg & Sci
CS 105 Intro Computing: Non-Tech

Linear Algebra
MATH 125  Elementary Linear Algebra
MATH 225 Introductory Matrix Theory
MATH 415  Applied Linear Algebra
MATH 416  Abstract Linear Algebra

Modern Algebra
MATH 413  Intro to Combinatorics
MATH 417  Intro to Abstract Algebra
MATH 453  Elementary Theory of Numbers

Applied Mathematics
MATH 347  Fundamental Mathematics
or MATH 348 Fundamentals Mathematics-ACP
MATH 285 Intro Differential Equations
MATH 441 Differential Equations
MATH 444  Elementary Real Analysis
MATH 446  Applied Complex Variables

Probability-Statistics
STAT 400/  Statistics and Probability I
MATH 463

History of Calculus
MATH 406  History of Calculus