

# TEACHER EDUCATION MINOR IN MATHEMATICS, GRADES 9-12

for the Undergraduate Teacher Education Minor in Mathematics, Grades 9-12

**department website:** <https://www.math.illinois.edu/>  
**department faculty:** Mathematics Faculty (<https://math.illinois.edu/directory/faculty/>)  
**overview of college admissions & requirements:** Liberal Arts & Sciences (<http://catalog.illinois.edu/schools/las/academic-units/>)  
**college website:** <https://las.illinois.edu/>  
**email:** [mathadvising@illinois.edu](mailto:mathadvising@illinois.edu)

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

Code	Title	Hours
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 <a href="http://www.icts.nesinc.com">www.icts.nesinc.com</a> ( <a href="http://www.icts.nesinc.com">http://www.icts.nesinc.com</a> ).		
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 Mathematics	
A course covering topics in non-Euclidean geometry		3
MATH 402 or MATH 403	Non Euclidean Geometry Euclidean Geometry	
At least 7 hours of work from at least two of the following areas:		7
<b>Computer Science (one course only)</b>		
CS 101	Intro Computing: Engrg & Sci	
CS 105	Intro Computing: Non-Tech	
<b>Linear Algebra</b>		
MATH 225	Introductory Matrix Theory	
MATH 415	Applied Linear Algebra	
MATH 416	Abstract Linear Algebra	
<b>Modern Algebra</b>		
MATH 413	Intro to Combinatorics	
MATH 417	Intro to Abstract Algebra	
MATH 453	Number Theory	
<b>Applied Mathematics</b>		
MATH 347	Fundamental Mathematics	
MATH 285	Intro Differential Equations	
MATH 441	Differential Equations	
MATH 444	Elementary Real Analysis	
MATH 446	Applied Complex Variables	
<b>Probability-Statistics</b>		
STAT 400/ MATH 463	Statistics and Probability I	
<b>History of Calculus</b>		
MATH 406	History of Calculus	

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