

# MATHEMATICS, M.ED.

## Mathematics Proficiencies - MED MATH

Code	Title	Hours
Demonstrated mathematical proficiency is required for the MED Mathematics. Deficiencies will be addressed in your offer of admission. If you have met proficiency requirements, and this is not reflected as complete, your advisor should notify the College of Graduate and Professional Studies		
<b>Required Mathematics Proficiencies</b>		
Linear Algebra Proficiency Needed		4
MATH 502	Linear Algebra	
Probability Statistics Proficiency Needed		4
MATH 503	Probability and Stats for Tchr	
Modern Algebra Proficiency Needed		3
MATH 504	Modern Algebra for Teachers	
Transformational Geometry Proficiency Needed		4
MATH 505	Classical & Modern Geometry	
Real Analysis Proficiency Needed		3
MATH 506	Modern Analysis for Teachers	
<b>Total Hours</b>		<b>18</b>

## MED Professional Core Requirements

Code	Title	Hours
<b>PROFESSIONAL CORE</b>		
Methods of Research or Statistical Methods I - Choose 1 of the following:		3
EDFN 601	Research Methods	
MATH 535	Statistical Methods 1	
Psychological Core Requirement - Choose 1 of the following:		3
EDFN 545	Advanced Educational Psychology	
PSYC 525	Advanced Child Psychology	
PSYC 526	Advanced Adolescent Psychology	
PSYC 625	Human Growth and Development	
Philosophical Core Requirement - Choose 1 of the following:		3
EDFN 511	Comparative Education	
EDFN 590	Social Foundation of Educ	
EDFN 603	Philosophy of Education	
EDFN 604	Education and Public Policy	
<b>Total Hours</b>		<b>9</b>

## Major in Mathematics Education - MED

Code	Title	Hours
No more than 2 courses numbered lower than 510 may count toward your major. A B- or better must be earned.		
<b>MATHEMATICS REQUIRED COURSES</b>		
MATH 603 and 604 are considered equivalent courses. Credit will not be given for both.		
Required Math Courses - Choose 4 of the following:		12-15
MATH 502	Linear Algebra	
MATH 503	Probability and Stats for Tchr	
MATH 504	Modern Algebra for Teachers	
MATH 505	Classical & Modern Geometry	

MATH 506	Modern Analysis for Teachers
MATH 520	Logic and Foundations of Math
MATH 535	Statistical Methods 1
MATH 536	Statistical Methods 2
MATH 566	Complex Variables
MATH 577	Problems in Applied Math
MATH 592	Graph Theory
MATH 642	Linear Algebra
MATH 650	Topics in Geometry
MATH 670	Operations Research
MATH 675	Numerical Analysis
MATH 683	General Topology
MATH 691	Combinatorics
MATH 693	Number Theory
MATH 695	Topics in Mathematics
MATH 696	Independent Study

Required Math Education Courses - Choose 3 classes from:

MATH 602	Equity Issues in Math Ed
MATH 603	History of Mathematics
MATH 604	Ethnomathematics
MATH 610	Problem Solving Seminar
MATH 611	Learning Mathematics
MATH 613	Elem/Sec Math Connections
Any MATH 614-617 course(s)	
MATH 672	Math Modeling in Secondary Sch
MATH 679	Technol in Secondary Schl Math
MATH 697	Topics in Math Education
MATH 698	Independent Study

### THESIS OR NON-THESIS REQUIREMENTS

undefined - Choose 1 of the following options 1-2:	6
Option 1. Non-Thesis Option - Mathematic Electives - Choose 6 hours from:	
Any MATH 510-698 course(s)	
Option 2. Thesis Option	
MATH 699	Thesis:

### Field Experience

All students must complete a field experience through a math education thesis or a research project in math education.

### Capstone Requirement

Comprehensive oral presentation required.

**Total Hours** **18-21**