

MATHEMATICS MAJOR FOR ELEMENTARY TEACHING

Updated August 2008

The major in Mathematics for Elementary teaching consists of a minimum of 33 credits. Candidates for certification in this major must pass the Michigan Test for Teacher Certification (MTTC) in Elementary Mathematics (Test #89). You must demonstrate your knowledge in following categories:

1. Mathematical Processes & Number Concepts 11-20 items
2. Patterns, Algebraic Relations & Functions 11-20 items
3. Measurement and Geometry 11-20 items
4. Data Analysis, Statistics, Probability, Disc. 11-20 items

You may access a study guide at the MTTC testing site; the courses below have been selected so that you will be well prepared for the test.

The following chart is intended to provide you a guide for scheduling your semesters and for keeping track of your grade point average.

100 LEVEL COURSES (8 credits)

SUBJECT/ COURSE	TITLE	CREDIT HOURS	SEMESTER	GRADE
MATH 126 OR MATH 131	Calculus with Review II Calculus I	4 4		
Prerequisite for MATH 126: MATH 125 with C- or better. (Math 125 counts as 4 credits toward graduation, but not toward the program.)				
MATH 132	Calculus II	4		
Prerequisite for MATH 132: MATH 126 or MATH 131 with C- or better, or AP or CLEP credit for Math 131.				

200 LEVEL COURSES (12 credits)

SUBJECT/ COURSE	TITLE	CREDIT HOURS	SEMESTER	GRADE
MATH 205	Math for the Elementary Teacher I	4		
MATH 206	Math for the Elementary Teacher II	2		
MATH 231	Multivariable Mathematics I	4		
Prerequisite for MATH 231: MATH 132 with C- or better.				
MATH 280	Bridge to Higher Mathematics	2		
Prerequisite for MATH 280: Math 132				

300 LEVEL COURSES (9 credits)

SUBJECT/ COURSE	TITLE	CREDIT HOURS	SEMESTER	GRADE
MATH 310 OR MATH 311 & MATH 312	Statistics for Scientists Statistical Methods Applied Statistical Models	4 2 2		
Prerequisite for MATH 310: Math 132				
MATH 321	History of Mathematics	2		
Prerequisite for MATH 321: Math 132				
MATH 351	Geometry	3		
Prerequisite for MATH 351: MATH 231				

MATHEMATICS ELECTIVES (4 additional credits)

SUBJECT/ COURSE	TITLE	CREDIT HOURS	SEMESTER	GRADE
Complete a minimum of 4 additional hours selected from other offerings in the Mathematics Department, or GEMS courses centered on mathematical topics.				

GEMS 100	Mathematics in Public Discourse	2		
MATH 207	K-8 Mathematics Software Applications	2		
MATH 208	Problem Solving for Elementary Teachers	2		
GEMS 105	Nature of Mathematics	2		

_____ **GPA in Mathematics courses (at least 2.5 for certification; 2.5 is required for approval to student teach)**