

MATHEMATICS-BA OR BS-ELEMENTARY EDUCATION (STARTING MTH 201)WITH EDUCATION MAJOR & ELEMENTARY CERTIFICATION MINORTHIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISOR.**A 2.7 cumulative GPA in the Mathematics major is required for admission to the College of Education**

Year One			
¹ MTH 201 Calculus I Prerequisites: MTH 122 and MTH 123 or proficiency through math placement	4	MTH 202 Calculus II Prerequisite: MTH 201	4
WRT 150 Strategies in Writing	4	PSY 101 Introductory Psychology	3
Gen Ed	3	Gen Ed	3
Gen Ed	3	EDF 100 Introduction to Education (optional – see below)	2
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>15</i>
Year Two			
² MTH 221 Mathematics for Elementary Teachers I Prerequisites: MTH 110 or MTH 122 and sophomore standing	4	² MTH 222 Mathematics for Elementary Teachers II Prerequisites: MTH 110 or MTH 122 and sophomore standing;	3
³ MTH 210 SWS Communicating in Mathematics Prerequisites: WRT 150 and MTH 201	4	MTH 221 strongly suggested	
PSY 301 Child Development Prerequisite: PSY 101	3	MTH 227 Linear Algebra I Prerequisites: MTH 202	3
EDF 315 Diverse Perspectives for Education	3	SCI 225 Integrated Life Sciences for K-8 Prerequisite: MTH 221 or MTH 222 or MTH 223 (may be taken concurrently)	4
PED 266 Move, Dance, Learn! PE & Dance for Elementary Education	2	EDI 337 Introduction to Learning and Assessment	3
		PED 265 Teaching Health in Elementary Schools	2
<i>Total</i>	<i>16*</i>	<i>Total</i>	<i>15</i>
Year Three			
MTH 322 Geometry for Elementary Teachers Prerequisites: MTH 223 or MTH 221 and MTH 222	3	MTH 310 Modern Algebra Prerequisites: MTH 210, and either MTH 225 or MTH 227	3
MTH 345 Discrete Mathematics Prerequisite: MTH 210	3	MTH 323 Probability and Statistics for Elementary Teachers Prerequisite: MTH 322	3
ENG 308 Teaching Reading: The Necessary Skills Prerequisites: WRT 150 and Junior standing	4	SST 309 Social Studies for Elementary Teachers Prerequisites: Junior standing or permission of instructor	3
SCI 226 Integrated Physical Sciences for K-8 Prerequisite: MTH 221 or 222 or 223 (may be taken concurrently)	3	MAT 300 Music, Art, and Theater for Elementary Education	3
		Gen Ed	3
<i>Total</i>	<i>13</i>	<i>Total</i>	<i>15</i>
Year Four			
MTH 324 Algebra for Elementary Teachers Prerequisites: MTH 210 and (MTH 223 or (MTH 221 and MTH 222))	3	⁵ MTH 495 The Nature of Modern Mathematics (Capstone) Prerequisites: MTH 210, MTH 227, MTH 310, and at least three other 300-400 level mathematics courses	3
MTH 341 Euclidean Geometry Prerequisites: MTH 210 and either MTH 227 or MTH 322	3	STA 312 Probability and Statistics Prerequisites: MTH 201	3
ENG 302 Introduction to Language Arts: Teaching Writing and Children's Literature Prerequisite: EDI 337 or PED 265 or PED 266	3	⁴ EDS 378 Universal Design for Learning: Elementary Issue/Theme	3
Gen Ed	3		3
Issue/Theme	3		
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>12</i>
Teacher Preparation Professional Program			
Teacher Assisting		Student Teaching	
EDI 330 Teacher Assisting: Elementary	5	EDI 430 Student Teaching: Elementary	10
EDF 310 Organizing and Managing Classroom Environments	3	EDF 485 The Context of Educational Issues Must be taken with or after ED 430	3
EDR 320 Reading: Assessment and Instruction	3		
EDT 370 Technology in Education Must be taken with or after EDI 330 but before EDI 430	3		
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>13</i>

* The block tuition rate is 12-15 credits. You will pay additional tuition for any credits over 15.

EDF 100 is an exploratory elective for students uncertain about pursuing teacher certification. It can be taken in either the fall or winter semester. See reverse for footnotes

It is imperative to meet with your faculty advisor and an advisor in the CLAS Academic Advising Center regularly.

The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585.

Online at: <http://www.gvsu.edu/clasadvising>

¹ Students must fulfill MTH 110, MTH 122, and MTH 123 or waive the requirement through math placement. These courses do not count towards the completion of the Mathematics major.

² Mathematics-Elementary Education students have the option of taking MTH 223 (5 credits) in place of MTH 221 and MTH 222.

³ Students must complete a total of two courses with an SWS attribute.

⁴ Starting Fall 2013, EDS 378 may be taken prior to the Teacher Assisting Semester. Please consult with your College of Education Advisor to determine an appropriate time to take this course.

⁵ Students may also complete MTH 496 – Senior Thesis – as the capstone requirement. Consult with your mathematics faculty advisor to discuss these options.

Mathematics students can pursue a Bachelor of Arts or Bachelor of Science degree. Students who wish to obtain a BA must fulfill 3rd semester proficiency in a foreign language (201 level). The BS requirements are incorporated into the major requirements and include MTH 201, MTH 202, and STA 312.

Declaring the Mathematics and Education Major with Elementary Certification Minor:

1. Log into myBanner from the GVSU homepage
2. Once logged in select “Student”, “Student Records”, and then, “Change Major”
3. Click on the “Change Major 1/Program” box
4. Click on the down arrow in the box next to “New Major 1/Program,” from here scroll down and choose “Mathematics Teaching-BA Elementary Education” **OR** “Mathematics Teaching-BS Elementary Education” depending on your degree
5. Click “Submit” and then “Change to New Program”
6. Return to the Change Major Screen and select “Add or Change Second Major”
7. Click on the down arrow in the box next to “New Major 2,” from here, scroll down and choose “Education” from the list and then click “Submit” and “Add Second Major”
8. Return to Change Major Screen and select “Add a Minor” or “Add or Delete Minor”, scroll to and select “Elementary Certification” and then click “Submit” and “Add Minor”

General Education Overlap

General Education Categories fulfilled by the Mathematics Major for Elementary Education:	
Life Sciences with Lab: SCI 225	Physical Sciences with Lab: SCI 226
Social and Behavioral Sciences: PSY 101	Mathematical Sciences: MTH 201
U.S. Diversity: EDF 315	

Elementary Certification Minor (26-28 credits)

A 2.7 cumulative GPA in the Elementary Certification minor is required for admission to the College of Education

ENG 308 Teaching Reading: The Necessary Skills (4)

Prerequisites: WRT 150 and Junior Status

SCI 225 Integrated Life Science for K-8 Teachers (4)

Prerequisite: MTH 221 or MTH 222 or MTH 223 (may be taken concurrently)

SCI 226 Integrated Physical Science for K-8 Teachers (3)

Prerequisites: MTH 221 or MTH 222 or MTH 223 (may be taken concurrently)

PED 265 Teaching Health in Elementary Schools (2)

PED 266 Move-Dance-Learn! PE & Dance for Elementary Ed (2)

SST 309 Social Studies for Elementary Teachers (3)

Prerequisite: Junior standing or permission of instructor

MAT 300 Music, Art & Theatre for Elementary Education (3)

ENG 302 Introduction to Language Arts: Teaching Writing & Children’s Literature

Prerequisite: EDI 337 or PED 265 or PED 266

MTH 221 Mathematics for Elementary Teachers I (4)

Prerequisites: MTH 110 or MTH 122 and at least sophomore standing

MTH 222 Mathematics for Elementary Teachers II (3)

Prerequisites: MTH 110 or MTH 122 and at least sophomore standing; MTH 221 strongly recommended

May be completed in place of MTH 221 and MTH 222

— MTH 223 Mathematics for Elementary Teachers III (5)

Prerequisite: MTH 201; must be math major

Second Major in Education

Education Major Prerequisites (9 credits)

A 2.7 cumulative GPA in the Education Major Prerequisites is required with no grade lower than a C

— PSY 301 Child Development (3)

Prerequisite: PSY 101

— EDF 315 Diverse Perspectives on Education (3)

— EDI 337 Introduction to Learning and Assessment (3)

Teacher Assisting (17 credits)

— EDI 330 Teacher Assisting-Elementary (5)

— EDF 310 Organizing and Managing Classroom Environments (3)

— EDR 320 Reading: Assessment and Instruction (3)

— EDT 370 Technology in Education (3)

Must be taken with or after ED 330 but before ED 430

— EDS 378 Universal Design for Learning: Elementary (3)

****** Starting Fall 2013, EDS 378 may be taken prior to the Teacher Assisting Semester. Please consult with your College of Education Advisor to determine an appropriate time to take this course.

Student Teaching (13 credits)

— EDI 430 Student Teaching, Elementary (10)

EDI 430 seminar is also required

— EDF 485 The Context of Educational Issues (3)

Must be taken with or after EDI 430