

MATHEMATICS -ELEMENTARY EDUCATION (STARTING IN MTH 110)

BACHELOR OF SCIENCE OR BACHELOR OF ARTS WITH SECOND MAJOR IN EDUCATION & ELEMENTARY CERTIFICATION MINOR

THIS IS A **GENERAL** CURRICULUM GUIDE AND IS NOT APPLICABLE TO EVERY STUDENT. IT IS IMPORTANT TO MEET WITH YOUR ADVISORS.

A 2.7 cumulative GPA in the Mathematics major is required for admission to the College of Education

Year One			
¹ MTH 110 Algebra Prerequisite: MTH 110 or proficiency through math placement	4	¹ MTH 122 College Algebra Prerequisite: MTH 110 or proficiency through math placement	3
Gen Ed or ⁵ WRT 098 (self-placement)	3/4	¹ MTH 123 Trigonometry Prerequisite: MTH 122 (may be taken concurrently) or proficiency through math placement	3
Gen Ed	3	PSY 101 Introductory Psychology	3
Gen Ed	3	⁵ WRT 150 Strategies in Writing	4
EDF 100 Introduction to Education (optional – see below)	2	Gen Ed	3
<i>Total</i>	<i>15/16</i>	<i>Total</i>	<i>16</i>
Year Two			
¹ MTH 201 Calculus I Prerequisites: MTH 122 and 123 or proficiency through math placement	4	MTH 202 Calculus II Prerequisite: MTH 201	4
PSY 301 Child Development Prerequisite: PSY 101	3	² MTH 223 Mathematics for Elementary Teachers III Prerequisites: MTH 201	5
EDF 315 Diverse Perspectives for Education	3	SCI 226 Integrated Physical Sciences for K-8 Prerequisite: MTH 221 or 222 or 223 (may be taken concurrently)	3
PED 266 Move, Dance, Learn! PE & Dance for Elem. Ed.	2	EDI 337 Introduction to Learning and Assessment	3
MAT 300 Music, Art, and Theater for Elementary Education	3		
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>15</i>
Year Three			
³ MTH 210 SWS Communicating in Mathematics Prerequisites: WRT 150 and MTH 201	4	MTH 341 Euclidean Geometry Prerequisites: MTH 210 and either MTH 227 or MTH 322	3
MTH 227 Linear Algebra I Prerequisites: MTH 202	3	MTH 323 Probability and Statistics for Elementary Teachers Prerequisite: MTH 322	3
MTH 322 Geometry for Elementary Teachers Prerequisites: MTH 223 or MTH 221 and MTH 222	3	ENG 302 Intro.to Lang. Arts: Teaching Writing/Children's Lit. Prerequisite: EDI 337 or PED 265 or PED 266	3
SCI 225 Integrated Life Sciences for K-8 Prerequisite: MTH 221 or 222 or 223 (may be taken concurrently)	4	ENG 308 Teaching Reading: The Necessary Skills Prerequisites: WRT 150 and Junior standing	4
		PED 265 Teaching Health in Elementary Schools	2
<i>Total</i>	<i>14</i>	<i>Total</i>	<i>15</i>
Spring/Summer Year Three			
MTH 345 Discrete Mathematics Prerequisite: MTH 210	3		
Year Four			
MTH 310 Modern Algebra Prerequisites: MTH 210, and either MTH 225 or MTH 227	3	⁶ 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 324 Algebra for Elementary Teachers Prerequisites: MTH 210 and (MTH 223 or (MTH 221 and MTH 222))	3	STA 312 Probability and Statistics Prerequisites: MTH 201	3
SST 309 Social Studies for Elementary Teachers Prerequisites: Junior standing or permission of instructor	3	⁴ EDS 378 Universal Design for Learning: Elementary Prerequisite: Sophomore standing, EDF 315 & EDI 337 Recommended	3
Issue	3	Issue	3
Gen Ed	3	Gen Ed	3
<i>Total</i>	<i>15</i>	<i>Total</i>	<i>15</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>

See reverse for footnotes

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

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

Your academic advisor in the CLAS Academic Advising Center is Betty Schaner (schanerb@gvsu.edu)

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

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

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

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 221 (4 cr) and MTH 222 (3 cr) in place of MTH 223.

³ Students must complete a total of two courses with an SWS attribute. One SWS should be from outside the major.

⁴ EDS 378 may be taken prior to the Teacher Assisting semester but **must** be completed prior to Student Teaching.

⁵ Students who self-place into WRT 098 should take this courser in the fall semester and then take WRT 150 in the winter semester of the first year. Students who self-place into WRT 150 should take this course in the winter semester of the first year. A grade of C or higher is required to fulfill the WRT 150 requirement.

⁶ Students may also complete MT 496 – Senior Thesis – as the capstone requirement. Consult with your mathematics faculty advisor to discuss these options.

Degree Requirements

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.” The system will automatically declare your second major in “Education” and minor in “Elementary Certification.” Click “Change to New Program.”

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 223 Mathematics for Elementary Teachers III (5) Prerequisite: MTH 201; recommended for Mathematics Majors May be completed in place of MTH 223 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

Second Major in Education	
Education Major Prerequisites (12 credits)	
A 2.7 cumulative GPA in the Education Major Prerequisites is required with no grade lower than a C and no courses may be taken Credit/No Credit	
— PSY 301 Child Development (3) Prerequisite: PSY 101 — EDS 378 Universal Design for Learning: Elementary (3) EDS 378 may be taken prior to the Teacher Assisting semester but must be completed prior to Student Teaching.	— EDF 315 Diverse Perspectives on Education (3) — EDI 337 Introduction to Learning and Assessment (3)
Teacher Assisting (14 credits)	Student Teaching (13 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	— 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