MATHEMATICS-ELEMENTARY EDUCATION (STARTING MTH 201)

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 ADVISOR.

	Year	One	
¹ MTH 201 Calculus I	4	MTH 202 Calculus II	4
Prerequisites: MTH 122 and MTH 123 or proficiency through math		Prerequisite: MTH 201	
placement		PSY 101 Introductory Psychology or Gen Ed	3
Gen Ed or ⁵WRT 098 (self-placement)	3	5WRT 150 Strategies in Writing	4
Gen Ed	3	Gen Ed	3
Gen Ed or PSY 101	3	(Students should not take any science general education	
EDF 100 Introduction to Education (optional – see below)	2	courses in their first year. The science categories will be	
,		fulfilled by SCI 225 and 226 in the soph and junior years)	
Total	15	Total	1
	Year	Two	,
³ MTH 210 SWS Communicating in Mathematics	4	² MTH 223 Mathematics for Elementary Teachers III	5
Prerequisites: WRT 150 and MTH 201		Prerequisites: MTH 201; this course is equivalent to MTH 221 + 222	
PSY 301 Child Development	3	MTH 227 Linear Algebra I	
Prerequisite: PSY 101		Prerequisites: MTH 202	3
EDF 315 Diverse Perspectives for Education	3	SCI 225 Integrated Life Sciences for K-8	1.
PED 266 Move, Dance, Learn! PE & Dance for Elementary Ed	2	Prerequisite: MTH 221 or MTH 222 or MTH 223 (may be taken	4
PED 265 Teaching Health in Elementary Schools	2	concurrently)	3
Total	14	EDI 337 Introduction to Learning and Assessment Total	1.
1000	Year		
MTH 322 Geometry for Elementary Teachers	3	MTH 331 Euclidean Geometry (formerly MTH 341)	3
Prerequisites: MTH 223 or MTH 221 and MTH 222		Prerequisites: MTH 210 and either MTH 227 or MTH 322	
MTH 315 Discrete Mathematics (formerly MTH 345)	3	MTH 323 Probability and Statistics for Elementary Teachers	3
Prerequisite: MTH 210		Prerequisite: MTH 322	
ENG 308 Teaching Reading: The Necessary Skills	4	SST 309 Social Studies for Elementary Teachers	3
Prerequisites: WRT 150 and Junior standing		Prerequisites: Junior standing or permission of instructor	
SCI 226 Integrated Physical Sciences for K-8	3	MAT 300 Music, Art, and Theater for Elementary Education	3
Prerequisite: MTH 221 or 222 or 223 (may be taken concurrently)		Gen Ed	3
Total	13	Total	1.
	Year	Four	
MTH 350 Modern Algebra I (formerly MTH 310)	3	⁶ MTH 495 The Nature of Modern Mathematics (Capstone)	3
Prerequisites: MTH 210, and either MTH 225 or MTH 227		Prerequisites: MTH 210, MTH 227, MTH 350, and at least three other 300-	
MTH 324 Algebra for Elementary Teachers	3	400 level mathematics courses	
Prerequisites: MTH 210 and (MTH 223 or (MTH 221 and MTH 222))		STA 312 Probability and Statistics	3
ENG 302 Introduction to Language Arts: Teaching Writing	3	Prerequisites: MTH 201	
and Children's Literature		⁴ EDS 378 Universal Design for Learning: Elementary	3
Prerequisite: WRT 150 and one of EDI 337 or PED 265 or PED 266		Prerequisite: Sophomore standing, EDF 315 & EDI 337 Recommended	
Issue	3	Issue	3
Total	12	Total	12
Teacher Prepa	ration	Professional Program	
Teacher Assisting		Student Teaching	
EDI 330 Teacher Assisting: Elementary	5	EDI 430 Student Teaching: Elementary	1
EDF 310 Organizing and Managing Classroom Environments	3	EDF 485 The Context of Educational Issues	3
EDR 320 Reading: Assessment and Instruction	3	Must be taken with or after ED 430	
EDT 370 Technology in Education	3		
Must be taken with or after EDI 330 but before EDI 430			
Total	14	Total	1
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^{*} The block tuition rate is 12-15 credits. You will pay additional tuition for any credits over 15.

By taking one or two summer courses, this curriculum could be completed in 4.5 years. Discuss this with an academic advisor.

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 additional footnotes

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

- 1 Students must fulfill MTH 110, MTH 122, and MTH 123, or MTH 124, 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. One SWS should be taken 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.
- ⁶Students 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." 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)
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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: WRT 150 and one of 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. Discuss with an advisor to determine an appropriate time to take this course.

- 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