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.

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

<table>
<thead>
<tr>
<th>Year One</th>
<th>Year Two</th>
<th>Year Three</th>
<th>Year Four</th>
<th>Teacher Preparation Professional Program</th>
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</thead>
</table>
| MTH 201 Calculus I  
Prerequisites: MTH 122 and MTH 123 or proficiency through math placement  
Gen Ed or WRT 098 (self-placement)  
Gen Ed  
Gen Ed or PSY 101  
EDF 100 Introduction to Education (optional – see below) | MTH 210 SWS Communicating in Mathematics  
Prerequisites: WRT 150 and MTH 201  
PSY 301 Child Development  
Prerequisite: PSY 101  
EDF 315 Diverse Perspectives for Education  
PED 266 Move, Dance, Learn! PE & Dance for Elementary Ed  
PED 265 Teaching Health in Elementary Schools | MTH 322 Geometry for Elementary Teachers  
Prerequisites: MTH 223 or MTH 221 and MTH 222 | MTH 210, and either MTH 225 or MTH 227  
MTH 324 Algebra for Elementary Teachers  
Prerequisites: MTH 210 and (MTH 223 or (MTH 221 and MTH 222))  
ENG 302 Introduction to Language Arts: Teaching Writing and Children’s Literature  
Prerequisite: WRT 150 and one of EDF 337 or PED 265 or PED 266 Issue | Teacher Assisting  
EDI 330 Teacher Assisting: Elementary  
EDF 310 Organizing and Managing Classroom Environments  
EDR 320 Reading: Assessment and Instruction  
EDT 370 Technology in Education  
Must be taken with or after EDI 330 but before EDI 430 |  
EDT 201 Calculus II  
Prerequisite: MTH 201  
PSY 101 Introductory Psychology or Gen Ed  
Gen Ed  
Gen Ed or PSY 101 (Students should not take any science general education courses in their first year. The science categories will be fulfilled by SCI 225 and 226 in the soph and junior years) | MTH 223 Mathematics for Elementary Teachers III  
Prerequisites: MTH 201; this course is equivalent to MTH 221 + 222 | MTH 322 Linear Algebra I  
Prerequisites: MTH 202  
SCI 225 Integrated Life Sciences for K-8  
Prerequisite: MTH 221 or MTH 222 or MTH 223 (may be taken concurrently)  
EDI 337 Introduction to Learning and Assessment | MTH 331 Euclidean Geometry  
(formerly MTH 341)  
Prerequisites: MTH 210 and either MTH 227 or MTH 322 | MTH 323 Probability and Statistics for Elementary Teachers  
Prerequisite: MTH 322  
SST 309 Social Studies for Elementary Teachers  
Prerequisites: Junior standing or permission of instructor  
MAT 300 Music, Art, and Theater for Elementary Education  
Gen Ed |  
MTH 350 Modern Algebra I  
(formerly MTH 310)  
Prerequisites: MTH 210, and either MTH 225 or MTH 227  
MTH 324 Algebra for Elementary Teachers  
Prerequisites: MTH 210 and (MTH 223 or (MTH 221 and MTH 222))  
ENG 302 Introduction to Language Arts: Teaching Writing and Children’s Literature  
Prerequisite: WRT 150 and one of EDF 337 or PED 265 or PED 266 Issue |  
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 | STA 312 Probability and Statistics  
Prerequisites: MTH 201  
4EDS 378 Universal Design for Learning: Elementary  
Prerequisite: Sophomore standing, EDF 315 & EDF 337 Recommended Issue |

Total 15 | Total 14 | Total 15 | Total 15 | Total 12 |

Teacher Assisting  
EDI 330 Teacher Assisting: Elementary  
EDF 310 Organizing and Managing Classroom Environments  
EDR 320 Reading: Assessment and Instruction  
EDT 370 Technology in Education  
Must be taken with or after EDI 330 but before EDI 430 | Student Teaching  
EDI 430 Student Teaching: Elementary  
EDF 485 The Context of Educational Issues  
Must be taken with or after EDI 430 |  
Total 14 | Total 13 |

* 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.

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.

Your academic advisor in the CLAS Academic Advising Center is Betty Schaner (schanerb@gsu.edu)  
Online at: http://www.gvsu.edu/clasadvising
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.

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

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

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

Students who self-place into WRT 098 should take this course 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.

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 GVU 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.”

6. Click “Change to New Program.”

### General Education Overlap

<table>
<thead>
<tr>
<th>General Education Categories fulfilled by the Mathematics Major for Elementary Education:</th>
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<tbody>
<tr>
<td>Life Sciences with Lab: SCI 225</td>
<td>Physical Sciences with Lab: SCI 226</td>
</tr>
<tr>
<td>Social and Behavioral Sciences: PSY 101</td>
<td>Mathematical Sciences: MTH 201</td>
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<tr>
<td>U.S. Diversity: EDF 315</td>
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### 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: WRT 150 and one of EDF 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.

**Teacher Assisting (14 credits)**

— **EDI 330 Teacher Assisting-Elementary (5)**
— **EDI 310 Organizing and Managing Classroom Environments (3)**
— **EDR 320 Teaching: Assessment and Instruction (3)**
— **EDT 370 Technology in Education (3)**

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

**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

Edited 4/13/2016