

Program: **Mathematics Education**  
 Major: **Mathematics Education**  
 Degree: **Bachelor of Science in Education (B.S.Ed.)**

Dept: **Mathematics and Statistics**  
 College: **Mathematics and Science**  
 Major Code: **6180**

**University Core (Total Listed 42-44)**

Specific courses within the University Core are listed on pages 96-97.

• Courses from the major may apply to the areas marked in the University Core.

• **Written and Oral Communication..... 9**

**Quantitative Reasoning/Scientific Method ..... 10-11**

- Math..... 3
- Life Science ..... 4
- Physical Science..... 3-4

**Critical Inquiry and Aesthetic Analysis..... 6**

- Aesthetic Analysis ..... 3
- Critical Inquiry..... 3

**American Historical and Political Analysis ..... 6**

- American National Government ..... 3
- American History..... 3

**Cultural and Language Analysis ..... 3-4**

- Second Language..... 4
- OR
- Cultural Analysis..... 3

**Social and Behavioral Analysis..... 3**

**Life Skills ..... 5**

- Required Health Course..... 2
- Elective Life Skills ..... 3

**Minimum  
Required Hours**

**Support and Prerequisite Courses**

**Support Courses..... 9**

- MCOM 1113 Fundamentals of Speech
- ENG 1113 English Composition
- ENG 1213 English Composition and Research

**Prerequisite Courses..... 0-6**

- MATH 1533 Algebra for STEM **OR** Placement Score **AND**
- MATH 1593 Plane Trigonometry **OR** Placement Score

**Major Requirements**

**Mathematics Education..... 41-42**

**Required courses ..... 36**

- MATH 2313 Calculus 1
- MATH 2323 Calculus 2
- MATH 2333 Calculus 3
- MATH 2343 Calculus 4
- MATH 2743 Technology and Mathematics Education
- MATH 3113 Foundations of Advanced Mathematics
- MATH 3123 College Geometry
- MATH 3143 Linear Algebra
- MATH 3163 Elementary Number Theory
- MATH 3183 Introduction to Modern Algebra
- MATH 4483 History of Mathematics
- STAT 2113 Statistical Methods

**Mathematics Electives ..... 5-6**

Select at least two of the following:

- MATH 2023 Foundations of Geometry and Measurement
- MATH 3103 Differential Equations
- MATH 4143 Introduction to Analysis 1
- MATH 4960 Institute in Mathematics (2 hours)
- STAT 4113 Mathematical Statistics 1

**Professional Education ..... 32**

- PTE 1010 Introduction to Teacher Education
- PTE 3023 Foundations of American Education/Clinical Exp
- PTE 3153 Adolescent Psychology

**Minimum  
Required Hours**

- SPED 4123 Teaching Individuals with Disabilities
- MATH 3323 Teaching Middle School Math
- ^MATH 4843 Teaching Secondary Mathematics
- ^PTE 4172 Educational Assessment
- ^PTE 4533 Educational Psych/Clinical Experience
- ^#PTE 4811 Contemporary Issues
- ^#PTE 4838 Internship/Student Teaching Secondary
- ^#PTE 4853 Classroom Management & Instruction

^ Admission to Teacher Education required

#To be taken the same semester

**Electives to bring total to..... 124**

It is strongly recommended that students complete a two-semester sequence in physics (PHY 1114/1214 - General Physics I/II and laboratory) or computer science (CMSC 1613/2613 - Programming I/II). Students planning to do graduate work should take MATH 4143, Introduction to Analysis 1.

**Minimum Graduation Requirements**

1. **Overall GPA in all college course work ..... 2.75**
2. **Courses in English Composition, Fundamentals of Speech, Professional Education, and area of specialization (major)..... "C"**
3. **Proficiency in foreign language ..... Novice 4 level**

**For other regulations pertaining to graduation, see pages 67-68 of the 2017-2018 catalog.**