

# Mathematics Education (BS)

## General Education..... 43-44

### **A. Language Arts** .....9

ENGL 1113 Freshman English I..... 3

ENGL 1213 Freshman English II ..... 3

COMM 1113 Speech Communication..... 3

### **B. Mathematics** .....5-6

MATH 1513 College Algebra.....3

MATH 1613 Plane Trigonometry .....3

OR

MATH 1715 College Algebra & Trigonometry .....5

### **C. History and Political Science**.....6

POLS 1013 American Government .....3

HIST 1313 American History 1492-1877 **OR**

HIST 1323 American History 1877-Present

### **D. Natural Science**.....8

BIOL 1304 Principles of Biology .....4

Physical Science with a Lab .....4

### **E. Social and Behavioral Sciences** .....6

Sociology or Psychology Elective ..... 3

Economics Elective ..... 3

### **F. Humanities** .....6

\*Choose 6 hours from the following areas: philosophy, humanities,  
music appreciation, art appreciation, literature, intro. to theater, world  
history, music history, world religion, others as approved by VPAA.

(Must include course work from two areas--No activity courses will count)

### **G. Additional Liberal Arts & Science Elective**.....2

### **H. Freshman Orientation**.....1

EDUC 1111 Student Success Seminar ..... 1

## Co-Requisites for Education.....8

EDUC 2222 Communication Skills for Educators .....2

EDUC 2233 Diversity in Education.....3

EDUC 2323 Reading in the Content Area .....3

**Mathematics Education Course work..... 42**

MATH1513 College Algebra .....3

MATH1613 Plane Trigonometry .....3

OR

MATH1715 College Algebra & Trigonometry .....5

MATH 1824 Calculus I.....4

MATH 2424 Calculus II .....4

MATH 2434 Calculus III.....4

MATH 3333 Linear Algebra .....3

MATH 3443 Discrete Mathematics.....3

MATH 3513 Foundations of Math .....3

MATH 3713 College Geometry .....3

MATH 4323 Modern Algebra.....3

MATH 4763 Probability and Statistics.....3

Co-Requisites

CIS 2123 Programming I.....3

CIS 2233 Logic and Design .....3

Electives ..... 6-7

Choose from:

MATH 3663 Topology

MATH 4000 Problems in Math

MATH 4073 Numerical Analysis

MATH 4123 Complex Variables

MATH 4413 Ordinary Differential Equations

MATH 4423 Partial Differential Equations

MATH 4453 Introduction to Real Analysis

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

EDUC 2001 Education Seminar ..... 1

EDUC 2113	Introduction to Education .....	3
EDUC 3213	Human Development: Child and Adolescent Psychology .....	3
*EDUC 3223	Education of the Exceptional Child .....	3
*EDUC 4313	Educational Psychology .....	3
*EDUC 4333	Educational Technology .....	3
*EDUC 4533	Secondary Classroom Management and Assessment .....	3
*MATH 4322	Teaching Mathematics in Secondary Schools .....	2
<b>*Restricted Classes—Must Be Admitted To Teacher Education Prior to Enrolling.</b>		
**EDUC 4720	Student Teaching in Secondary Schools .....	12
<b>**Restricted Classes—Must Be Admitted To Professional Semester Prior to Enrolling.</b>		

