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**Degree: Bachelor of Science**  
**Major: Mathematics Education**

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CURRICULUM

CREDITS

**University Requirements**

- ENGL 110 Critical Reading and Writing (minimum grade C-) ..... 3
- First Year Experience ..... 0-4
- Discovery Learning Experience ..... 3
- Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content ..... 3

**College Requirements**

- Writing (minimum grade C-) ..... 3  
Second writing course taken after completion of 60 credit hours.
- Foreign Language ..... 0-12  
Completion of the intermediate-level course (107 or 112) in a given language. Number of credits needed and initial placement will depend on number of years of high school study of foreign language. Students with four or more years of high school work in a single foreign language may attempt to fulfill this requirement in that language by taking an exemption examination

**Breadth Requirements**

Eighteen credits from Groups A, B and C with a minimum of six credits from each group.

- Group A ..... 6
- Group B ..... 6
- Group C ..... 6

**Major Requirements** (C- or better is required for major courses and related work.)

**Mathematics Section**

- MATH 210 Discrete Mathematics I ..... 3
- MATH 242 Analytic Geometry and Calculus B ..... 4
- MATH 243 Analytic Geometry and Calculus C ..... 4
- MATH 245 Introduction to Proof ..... 3
- MATH 302 Ordinary Differential Equations ..... 3
- MATH 308 Historical Developments of Mathematical Concepts  
and Ideas ..... 3
- MATH 349 Elementary Linear Algebra ..... 3
- MATH 350 Probability Theory and Simulation Methods ..... 3
- MATH 450 Mathematical Statistics ..... 3
- MATH 451 Abstract Algebra I ..... 3
- MATH 540 College Geometry: A Historical Approach ..... 3
- One of the following modeling courses ..... 3
  - MATH 512 Contemporary Applications of Mathematics
  - MATH 518 Mathematical Models and Applications
- One course from the following list ..... 3
  - MATH 315 Discrete Mathematics II
  - MATH 401 Introduction to Analysis
  - MATH 503 Advanced Calculus for Applications
  - MATH 508 Introduction to Complex Variables and Applications

**Computer and Information Sciences Section**

- Either CISC 106 (for those with no previous equivalent experience) or  
CISC 181 Introduction to Computer Science ..... 3

**Science Section**

- A two semester, 8 credit sequence of laboratory science (courses designed  
for non-majors in a discipline are not appropriate, except for  
CHEM 103–104). ..... 8

## Professional Development Section

<input type="checkbox"/> MATH 279 Problem Solving Strategies I .....	1
<input type="checkbox"/> MATH 379 Problem Solving Strategies .....	1
<input type="checkbox"/> MATH 380 Approaches to Teaching Mathematics .....	3
<input type="checkbox"/> MATH 382 Student Teaching Seminar in Secondary Math .....	2
<input type="checkbox"/> EDUC 400 Student Teaching .....	9
<input type="checkbox"/> EDUC 413 Adolescent Development and Educational Psychology .....	4
<input type="checkbox"/> EDUC 414 Teaching Exceptional Adolescents .....	3
<input type="checkbox"/> EDUC 419 Diversity in Secondary Education .....	3
<input type="checkbox"/> EDUC 420 Reading in the Content Areas .....	1

## Additional Requirements

<input type="checkbox"/> Nine additional credits in mathematics or in related disciplines at the 300 level or above .....	9
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(Courses not approved for math majors cannot be counted towards these 9 additional credits. Courses in other disciplines can be in CISC, ECON, PHYS and STAT from an approved list maintained by the Department of Mathematical Sciences.)

<input type="checkbox"/> Electives in sufficient number to complete the minimum number of credits required for graduation.	
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<input type="checkbox"/> Credits to total a minimum of .....	<b>124</b>
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