

### General Education

**Foundations: (13 Credits)**

**Oral Communication (3 Credits)**

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**Quantitative Reasoning (4 Credits)**

MATH 2410 Calculus I

**Technological Literacy (3 Credits)**

CMSC 1380 Intro to Prog. with Python

**Written Communication (3 Credits)**

ENGL 1200 College Composition

**Discoveries: (27 Credits)**

*At least two (2) disciplines must be represented within each of the three (3) categories.*

**Art/Humanities (9 Credits)**

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**Natural Sciences & Technology (9 Credits)**

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**Social Sciences (9 Credits)**

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**Elective/Wellness & Personal Health: (3 Credits)**

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**Competencies:**

**Applied Methodologies**

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**Ethical Reasoning**

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**Information Literacy**

MATH 4900 Senior Math Seminar

**Intercultural Fluency**

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**Keystone Experience**

MATH 4900 Senior Math Seminar

**Quantitative Applications**

STAT 3010 Mathematical Probability and Statistics

**Writing Intensive - Two (2) courses are required**

MATH 3000 Foundations of Mathematics  
 MATH 4410 Real Analysis I

### Program Requirements

**Required Major Courses: (36 Credits)**

- MATH 2410 Calculus I
- MATH 2420 Calculus II
- MATH 3000 Foundations of Mathematical Proof
- MATH 3210 Linear Algebra I
- MATH 3430 Calculus III
- MATH 3440 Differential Equations
- MATH 4260 Abstract Algebra I
- MATH 4410 Real Analysis I
- STAT 3010 Mathematical Probability and Statistics
- MATH 4900 Senior Math Seminar
- CMSC 1380 Intro to Prog. with Python

**Major Electives: (15 Credits)**

- MATH 1510 Discrete Structures
  - ~Or~ STAT 2020 Elements of Statistics
  - ~Or~ Any MATH/STAT at the 3000+ level beyond required courses
- 12 credits of MATH/STAT course at the 3000+ level beyond required courses
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**Free Electives: (33 Credits)**

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## Suggested Four Year Course Sequence

### Year 1

#### Fall Semester

MATH 2410 (Calculus I)  
CMSC 1380 (Prog. With Python)  
ENGL 1200 (College Composition)  
Social Science Discovery  
Natural Science/Technology Discovery

#### Spring Semester

MATH 2420 (Calculus II)  
Oral Communications Foundation  
Social Science Discovery  
Natural Science/Technology Discovery  
Art/Humanities Discovery

### Year 3

#### Fall Semester

STAT 3010 (Math. Probability & Statistics)  
MATH 4260 (Abstract Algebra I)  
~Or~ Mathematics Statistics Elective  
Free Electives (9 credits)

#### Spring Semester

MATH 4410 (Real Analysis I)  
~Or~ Mathematics/Statistics Elective  
Mathematics/Statistics Elective  
Free Electives (9 credits)

**NOTE:** \* A student who places into MATH 1410 (Precalculus) can complete this eight semester plan by moving MATH 2410 (Calculus I) into the semester two, MATH 2420 (Calculus II) in the semester three, and MATH 3430 (Calculus III) into semester five. Discovery courses and free electives can be redistributed to ensure graduation in eight semesters.

### Year 2

#### Fall Semester

MATH 3430 (Calculus III)  
MATH 3210 (Linear Algebra I)  
Social Science Discovery  
Natural Science/Technology Discovery  
Art/Humanities Discovery

#### Spring Semester

MATH 3000 (Foundations of Math Proof)  
MATH 3440 (Differential Equations)  
Art/Humanities Discovery  
Student General Education Elective  
Free Electives (3 credits)

### Year 4

#### Fall Semester

MATH 4260 (Abstract Algebra I)  
~Or~ Mathematics Statistics Elective  
MATH 4900 Senior Math Seminar  
Mathematics/Statistics Elective  
Free Electives (6 credits)

#### Spring Semester

MATH 4410 (Real Analysis I)  
~Or~ Mathematics/Statistics Elective  
Mathematics/Statistics Elective  
Free Electives (6 credits)

