

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)

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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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 3910 Junior Seminar in Mathematics

Intercultural Fluency

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Keystone Experience

- MATH 4900 Senior Math Seminar

Quantitative Applications

- STAT 3010 Mathematical Probability and Statistics

Writing Intensive

- MATH 3000 Foundations of Mathematics
 ~And~ MATH 4410 Real Analysis I

Program Requirements

Required Major Courses: (35 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 3995 Junior Seminar in Mathematics
 MATH 4900 Senior Mathematics 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

Free Electives: (34 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
MATH 4410 (Real Analysis 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 3995 (Junior Seminar in Math)
Mathematics/Statistics Elective
Free Electives (7 credits)

Spring Semester

MATH 4410 (Real Analysis I)
~Or~ Mathematics/Statistics Elective
MATH 4900 (Senior Seminar in Math)
Mathematics/Statistics Elective
Free Electives (6 credits)

