

General Education

Foundations: (13 Credits)

Oral Communication (3 Credits)

Written Communication (3 Credits)

ENGL 1200 College Composition

Quantitative Reasoning (4 Credits)

MATH 2410 Calculus I

Technological Literacy (3 Credits)

CMSC 1380 Intro to Prog. with Python

Discoveries: (Credits 27)

Art/Humanities (9 Credits)

Social Sciences (9 Credits)

Natural Sciences & Technology (9 Credits)

Student Elective: (3 Credits)

Competencies:

Quantitative Applications

STAT 3010 Mathematical Probability and Statistics

Applied Methodologies

Intercultural Fluency

Ethical Reasoning

Information Literacy

MATH 3910 Junior Seminar in Mathematics

Writing Intensive

MATH 3000 Foundations of Mathematics & MATH 4410 Real Analysis I

Keystone Experience

MATH 4900 Senior Math Seminar

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 3910 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)

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 4910 (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)

