Degree: BS
College: College of Science, Technology & Business
Major: Mathematics
Major Code: MATH
Concentration: Actuarial Science (ACSC)

Credits Required: 120

Minor: N/A
Minor Code: N/A

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)
- [ ] ECON 2100 Principles of Microeconomics
- [ ] ECON 2200 Principles of Macroeconomics
- [ ] _____

Natural Sciences & Technology (9 Credits)
- [ ] _____
- [ ] _____
- [ ] _____

Student Elective: (3 Credits)
- [ ] _____

Competencies:

Quantitative Applications
- [ ] STAT 3010 Mathematical Probability and Statistics

Applied Methodologies
- [ ] MATH 3810 Mathematical Interest Theory

Intercultural Fluency
- [ ] _____

Ethical Reasoning
- [ ] _____

Information Literacy
- [ ] MATH 3910 Junior Seminar in Mathematics

Writing Intensive
- [ ] MATH 3000 Foundations of Mathematics & COMJ 2201 Business & Professional COM

Keystone Experience
- [ ] MATH 4900 Senior Math Seminar

Program Requirements

Required Major Courses: (29 Credits)
- [ ] MATH 2410 Calculus I
- [ ] MATH 2420 Calculus II
- [ ] MATH 3000 Foundations of Mathematical Proof
- [ ] MATH 3210 Linear Algebra I
- [ ] MATH 3430 Calculus III
- [ ] STAT 3010 Mathematical Probability and Statistics
- [ ] MATH 3440 Differential Equations
- [ ] MATH 3910 Junior Seminar in Mathematics
- [ ] MATH 4900 Senior Mathematics Seminar
- [ ] CMSC 1380 Intro to Prog. with Python

Major Electives: (3 Credits)
- [ ] Any MATH/STAT course at the 3000+ level

Required Concentration Courses: (24 Credits)
- [ ] STAT 4010 Statistical Inference
- [ ] MATH 3810 Mathematical Interest Theory
- [ ] STAT 3800 Intro to Actuarial Science
- [ ] ECON 2100 Principles of Microeconomics
- [ ] ECON 2200 Principles of Macroeconomics
- [ ] ACC 2000 Financial Accounting
- [ ] FINA 3000 Financial Management
- [ ] COMJ 2201 Business & Professional Communications

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)
ECON 2100 (Princ. of Microeconomics)
Natural Science/Technology Discovery

Spring Semester

MATH 2420 (Calculus II)
Oral Communications Foundation
ECON 2200 (Princ. Of Macroeconomics)
Natural Science/Technology Discovery
Art/Humanities Discovery

Year 2

Fall Semester

MATH 3430 (Calculus III)
MATH 3210 (Linear Algebra I)
ACCT 2000 (Financial Accounting)
Natural Science/Technology Discovery
Art/Humanities Discovery

Spring Semester

MATH 3000 (Foundations of Math Proof)
FINA 3000 (Financial Management)
MATH 3440 (Differential Equations)
Art/Humanities Discovery
Social Sciences Discovery

Year 3

Fall Semester

STAT 3010 (Math. Probability & Statistics)
MATH 3810 (Math. Interest Theory)
  ~Or~ Mathematics/Statistics Elective
Free Electives (9 credits)

Spring Semester

STAT 3800 (Intro to Actuarial Science)
STAT 4010 (Statistical Inference)
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 4

Fall Semester

MATH 3810 (Math. Interest Theory)
  ~Or~ Mathematics/Statistics Elective
MATH 4910 (Junior Seminar in Math.)
Free Electives (10 credits)

Spring Semester

MATH 4900 (Senior Seminar in Math)
COMJ 2201 (Business & Profess. Comm.)
Student General Education Elective
Free Electives (6 credits)