## Mathematics (BA or BS), Actuarial Science

## FALL - Semester 1

MATH 198: Analytic Geometry with Calculus I TRU 117: Self \& Society Sem: Game Theory TRU 100: Truman Symposium
Dialogues coursework

## FALL - Semester 3

MATH 200: Foundations of Mathematics
MATH 264: Analytic Geometry with Calculus III ECON 205: Principles of Economics*
BSAD 153: Intro. To Business Data Analytics Foreign Language

## FALL - Semester 5

MATH 451: Algebraic Structures I STAT 570: Math. Probability and Statistics I ACCT 220: Intro. To Financial Accounting JINS 3XX: Junior Interdisciplinary Seminar Dialogues or BS/BA coursework

## FALL - Semester 7

MATH 461: Advanced Calculus I
MATH 499: Mathematics Capstone Seminar Electives

## SPRING - Semester 2

MATH 263: Analytic Geometry with Calculus II CS 170: Intro to Computer Science CHEM 130 or PHYS 195
Dialogues coursework

## SPRING - Semester 4

MATH 357: Linear Algebra
MATH 330: Mathematics of Finance
STAT 290: Statistics
Dialogues coursework
Foreign Language

## SPRING - Semester 6 <br> MATH 398: Junior Seminar in Mathematics <br> STAT 571: Math. Probability and Statistics II BSAD 329: Principles of Finance <br> Actuarial Elective** <br> Dialogues or $\mathrm{BS} / \mathrm{BA}$ coursework

## SPRING - Semester 8 <br> MATH Elective \#4 <br> MATH Elective \#5 <br> Electives (as needed) to total at least 120 hours

* The two semester sequence ECON 200-201 may be taken instead.
**Choose one course from: BSAD 420, STAT 478, STAT 481, MATH 425. Note that these courses are not offered every semester, and some of these classes have prerequisites not included above. Also note that MATH 425 can be used as a MATH Elective.

Graduation Requirements: Total credit hrs>=120 (40 credit hrs @ 300-level or higher)

## List A of Elective Courses

MATH 363: College Geometry
MATH 440: Topology
MATH 447: Combinatorial Analysis
MATH 452: Algebraic Structures II
MATH 454: Theory of Numbers
MATH 462: Advanced Calculus II
MATH 465: Differential Geometry
MATH 468: Intro to Set Theory
MATH 469: Intro to Math Logic
MATH 515: Complex Variables I
STAT 570: Math. Probability \& Stat. I
MATH 464: Higher Geometry

## List B of Elective Courses

MATH 300: Introduction to Numerical Analysis
MATH 330: Mathematics of Finance
MATH 335: Game Theory
MATH 345: Introduction to Mathematical Biology
MATH 347: Discrete Mathematics
MATH 364: Vector Analysis
MATH 365: Ordinary Differential Equations
MATH 400: Methods of Optimization
MATH 425: Intro. To the Math. of Life Contingencies
MATH 455: History of Mathematics I
MATH 456: History of Mathematics II
MATH 511: Numerical Analysis
MATH 521: Partial Differential Equations
MATH 530: Topics in Mathematical Modeling MATH 564: Advanced Linear Algebra
STAT 571: Mathematical Probability and Statistics II
The Dialogues Curriculum requires a certain number of courses/credit hours in the following Perspectives: Social, Arts and Humanities, STEM, Communications, and Statistics. The exact number of courses a student will be required to take during their undergraduate career varies individually according to the credit transferred in.

Department Chair: Please contact the Center for Academic Excellence with any updates to the plan above.

