

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

MATH 398: Junior Seminar in Mathematics
STAT 571: Math. Probability and Statistics II
 BSAD 329: Principles of Finance
 Actuarial Elective**
 Dialogues or BS/BA coursework

SPRING - Semester 8

MATH Elective #4
MATH Elective #5
 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 \geq 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.