

Sample Four Year Plan

Mathematics (BA or BS)

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 CHEM 130 or PHYS 195

Foreign Language

FALL - Semester 5

MATH 451: Algebraic Structures I **MATH XXX**: One course from List A or B JINS 3XX: Junior Interdisciplinary Seminar Dialogues or BS/BA coursework

Elective

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 Dialogues coursework

SPRING - Semester 4

STAT 290: Statistics **MATH 357**: Linear Algebra
Dialogues coursework
Foreign Language

SPRING - Semester 6

MATH XXX: One course from List A or B
MATH XXX: One course from List A or B

Dialogues or BS/BA coursework

Elective

SPRING - Semester 8

MATH XXX: One course from List A or B
MATH XXX: One course from List A or B
Electives (as needed) to total at least 120 hours

NOTES:

Graduation Requirements: Total credit hrs>=120

(40 credit hrs @ 300-level or higher)

List A of Elective Courses:

List B of Elective Courses:

MATH 363: College Geometry	MATH 300: Introduction to Numerical Analysis

MATH 440: Topology MATH 330: Mathematics of Finance

MATH 447: Combinatorial Analysis MATH 335: Game Theory

MATH 452: Algebraic Structures II MATH 345: Introduction to Mathematical Biology

MATH 454: Theory of Numbers MATH 347: Discrete Mathematics

MATH 462: Advanced Calculus II MATH 364: Vector Analysis

MATH 465: Differential Geometry MATH 365: Ordinary Differential Equations

MATH 468: Intro to Set Theory MATH 400: Methods of Optimization MATH 469: Intro to Math Logic MATH 455: History of Mathematics I

MATH 515: Complex Variables I MATH 456: History of Mathematics II

STAT 570: Math. Probability & Stat. I MATH 464: Higher Geometry

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 <u>Center for Academic Excellence</u> with any updates to the plan above.