

BA in Mathematics (Emphasis Applied/Actuarial)

Year 1	Year 2	Year 3	Year 4
MATH 241 Calculus I FS English 100 FW FG HSL 101 Elective	MATH 243 Calculus III MATH 321 Intro. to Advanced Math. W DB/ DY DS HSL 201	MATH 412 Intro. to Abstract Algebra I W Math 302 Intro DEs I DS DA Elective	MATH 431 Principles of Analysis I W MATH 471 Probability Elective E Elective Elective
MATH 242 Calculus II FG DH HSL 102 Elective	MATH 244 Calculus IV MATH 311 Intro. to Linear Algebra W MATH 331 Intro. to Real Analysis HSL 202 Elective	MATH 442 Vector Analysis Math 372 Probability and Stats** Elective W Elective DP	MATH 407 Numerical Analysis MATH 472 Statistical Inf. MATH 480 Senior Seminar O Elective Elective

Foundations and Diversification

These include the calculus sequence and UHM Gen. Ed. Core Requirements.

Hawaiian/Second Language and Focus

These graduation requirements include two years of language and an Ethics, Writing Intensive and Oral component.

Bridge

These courses are your bridge to upper level mathematics. In 307 or 311, 321, & 331 you develop the tools to do advanced mathematics. The 300 level topics courses are good to take in your 2nd & 3rd year.

311 Intro. Linear Algebra
307 Linear Alg. & DE
321 Intro. Adv. Math
331 Intro. Real Analysis

301 Intro. Discrete Math
302/3 Intro. DEs*
304/5 Math Modeling
351/2 Geometry
372 Probability & Stats (373 Spring 2017)

Core

These are the core courses of the major. The 412/413 sequence and 431 are minimum requirement for most graduate math programs. Even if you are not continuing to grad school, math majors should take the bulk of their courses from this section.

412/3 Intro. Abstract Algebra
431/2 Principles of Analysis
402 PDEs
407 Numerical Analysis
411 Linear Algebra
420 Intro. Number Theory
421 Topology
442 Vector Analysis
443 Differential Geometry
444 Complex Analysis
454 Set Theory
455 Logic
471 Probability
472 Statistical Inference