

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 Differential Equations 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 MATH 331 Intro. to Real Analysis W HSL 202 Elective	MATH 442 Vector Analysis Math 372 Elementary Probability and Statistics** Elective W Elective DP	MATH 407 Numerical Analysis MATH 472 Statistical Inference MATH 480 Senior Seminar O Elective Elective

Foundations and Diversification

These include the calculus I-IV 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. & Diff. Eqns.
321 Intro. Adv. Math
331 Intro. Real Analysis
301 Intro. Discrete Math
302 & 303 Intro. Diff. Eqns*
304 & 305 Math Modeling
351 & 352 Foundation of Euclidean & Non-Euclidean Geometry
372 Elementary Probability & Statistics

Core

These are the core courses of the major. Math 412 & 413, and 431 are minimum requirements 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 & 413 Intro. Abstract Algebra
431 & 432 Principles of Analysis
402 Partial Diff. Eqns.
407 Numerical Analysis
411 Linear Algebra
420 Intro. to Theory of Numbers
421 Topology
442 Vector Analysis
443 Differential Geometry
444 Complex Analysis
454 Axiomatic Set Theory
455 Math Logic
471 Probability
472 Statistical Inference