

BS in Mathematics with specialization in Applied Mathematics

Year 1	Year 2	Year 3	Year 4
MATH 241 Calculus I FS English 100 FW FG ICS111 ICS141	MATH 243 Calculus III MATH 321 Intro. to Advanced Math W Phys 272L DP DY H/SL 101	MATH 411 Linear Algebra Math 302 Intro DEs I* Related XXX DB** Related XXX Chem 171/L DP DY H/SL 201	MATH 431 Principles of Analysis I W MATH 402 PDEs* MATH 471 Probability* Related XXX W** HAP
MATH 242 Calculus II ICS211 ICS241 FG Phys 170L DP DY	MATH 244 Calculus IV MATH 311 Introduction to Linear Algebra W MATH 331 Introduction to Real Analysis H/SL 102 DH	MATH 407 Numerical Analysis* Related XXX W** DS Chem 271/L DP DY H/SL 202	MATH 442 Vector Analysis MATH 472 Statistical Inf* MATH 480 Senior Seminar O Related XXX E** DA
			STOMP Program

Foundations and Diversification

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

In these courses, you should acquire the tools to succeed in college and be introduced to global and Hawaiian perspectives.

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 Intro. DEs*
304/5 Math Modeling*
351/352 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 I
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*

Up to 15 credits of upper division courses can come from related disciplines.

3xx-4xx Suggested Courses:

Phys: 305, 310, 311, 350, 400

ICS: 311, 314, 361, 414, 435, 442, 461, 475, 483, ME:360

* Denotes suggested electives for a student interested in applied in mathematics.

**Certain upper level science courses can be used to fulfill the DB, WI and E requirements.