## BS in Mathematics with specialization in Applied Mathematics

| Year 1 | Year 2 | Year 3 | Year 4 |
| :---: | :---: | :---: | :---: |
| MATH 241 Calculus I FS <br> English 100 FW <br> FG <br> ICS111 <br> ICS141 | MATH 243 Calculus III MATH 321 Intro. to Advanced Math W PHYS 272L DP DY HSL 101 | MATH 411 Linear Algebra Math 302 Intro Differential Equations I* Related XXX DB** Related XXX <br> CHEM 161 or 171/L DP DY HSL 201 | MATH 431 Principles of Analysis I W MATH 402 Partial Differential Equations* MATH 471 Probability* Related XXX W** HAP |
| MATH 242 Calculus II ICS211 <br> ICS241 <br> FG <br> PHYS 170L DP DY | MATH 244 Calculus IV MATH 311 Introduction to Linear Algebra MATH 331 Introduction to Real Analysis W HSL 102 DH | MATH 407 Numerical Analysis* <br> Related XXX W** DS <br> CHEM 162 of 271/L HSL 202 | MATH 442 Vector Analysis MATH 472 Statistical Inference* MATH 480 Senior Seminar O <br> Related XXX E** <br> DA |
|  |  |  | STOMP Program |

Foundations and Diversification
These include the calculus IIV 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 $2^{\text {nd }} \& 3^{\text {rd }}$ 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 \& NonEuclidean 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

 Algebra431 \& 432 Principles of Analysis I \& II
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*

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

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[^0]:    * Denotes suggested electives for a student interested in applied in mathematics.
    **Certain upper level science courses can be used to fulfill the $\mathrm{DB}, \mathrm{WI}$ and E requirements.

