Undergraduate Mathematics Courses University of Michigan This document gives a visual guide to the math courses available to undergraduate students. All of the information given here, as well as additional information (such as course Updated Fall 2025 $content\ and\ typical\ student\ body)\ can\ be\ found\ in\ the\ Program$ 105 $Some\ courses\ have\ potential\ routes\ to\ them\ other\ than\ those$ and Graphs listed here. Students should make an appointment with a Math Advisor to discuss their own situation and determine a plan that is appropriate for them. Appointments can be made at $\underline{https://lsa.umich.edu/math/undergraduates/advising.html}.$ Houghton Scholars Calc Honors Wkshp I Cryptology 289 Calculus II 116 276 186 156 Houghton Calculus II 310 Explorations in Applied Honors Scholars Calc Calculus _Calculus II Choice 214 Linear Algebra **Introductory Differential Equations** Multivariable Calculus 214 is for CoE CS and Applied Linear 201 Algebra 417 215 285 216 Intro to Math 417 is computational, for Multivariable & Writing Several Engineering and Natural Sciences majors. 217 419 is similar to 417, with 419 316 Linear Spaces & Matrix Differential 217, which also introduces (proofs) majors should take Math 286 or 316. Theory proof-writing, is for Math 486 & Statistics majors. Further Differential Equations 295 354 Boundary Math Methods Fourier 371 Methods \$60 \$60 \$60 Interest and Insurance 🌣 \$**\$**\$ 296 near Algebra to Analysis Intro to Mathematical Ecology 520 460 472 Num. Meth. With Financial Applied Stochastic 523 395 493 463 Honors Math Modeling 475 Models in Biology Elementary STAT mber Theory 396 494 568 Mathematical Analysis II Algebra II 476 547 Entropy and Neuroscience Comp'l Lab in Number Theory Data 183 550 217/29 451 351 412 Principles of Systems Intro to Modern 314 Math of Blockchains & Alternative 416 525 prerequisite: Math 46 Theory of and EECS 280. Algorithms Intro to Math 403 403 is for Data Science Theory Logic Intro to students. Math majors screte Math should take 465 551 Intro to 566 Topology 565 Theory Graph Theory Coding Theory Casualty 526 555 Discrete State II: Multivar Analysis **≯** 474 \$ 561 562 Linear Continuous rogramming •Methods 557 Applied 420 556 Differential Applied ear Algebra 591 Lab of Geom. (LoG(M)) Differential 593 575 Applied Nonlinear Algebra I Topology Number Theory 389 🐉 Explorations in 582 Math 592 Set Theory Algebra II Real Analysis I Complex Analysis I Topology KEY Area (approximate): Typical class format: Term(s) offered: Traditional lecture style Foundational Actuarial & Graduate Geometry/ Number from other Analysis 💓 Fall Course Course Finance Topology Theory department Inquiry-Based Learning (IBL) 💸 Winter 🗱 Spring and/or Summer Unmarked courses are taught with Courses with related Honors Other Other ⊃**¢** Sporadic Algebra Applied Education Logic content active learning, or a mixture of lecture Course dept.