Undergraduate Mathematics Courses 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 University of Michigan content and typical student body) can be found in the Program Guide. **Updated Winter 2022** $Some\ courses\ have\ potential\ routes\ to\ them\ other\ than\ those$ 105 Data, Functions ${\it listed here. Students should make an appointment with a Math}$ Advisor to discuss their own situation and determine a plan and Graphs that is appropriate for them. Appointments can be made at https://lsa.umich.edu/math/undergraduates/advising.html. 128 115 145 Explorations in Houghton Scholars Calc Intro to Honors Number Theory Math for Cryptology Wkshp I 489 289 Problem Solving Calculus II 146 116 176 186 156 Houghton Scholars Calc 497 Calculus II Applied Honors Explorations in Chance and Calculus II _Calculus II Elementary Linear Algebra 214 **Introductory Differential Equations** Multivariable Calculus 214 is for CoE CS and Applied Linear IOE majors. Algebra 417 205 215 285 216 201 417 is computational, for Multivariable & Several Engineering and Natural Writing Sciences majors. 217 419 is similar to 417, with 419 316 Linear Spaces & Matrix (proofs) Differential majors should take Equations 217, which also introduces Math 286 or 316. Theory proof-writing, is for Math & Statistics majors. **Further Differential Equations** 295 454 354 Boundary Math Methods Fourier for Engineers 371 424 \$68 571 Intro to Interest and Methods Insurance 868 296 ear Algebra Analysis 464 472 520 Life 466 Mathematical 425 523 524 Math Modeling Mathematical 395 493 in Biology Honors 389 👙 STAT 475 Math Elementary umber Theory 396 494 Mathematical 566 Methods for Analysis II Algebra II EECS ■ Biology ⊃**‡** Theory 476 Biological Comp'l Lab in Number Theory Complex 423 Systems Mathematics of 486 431 Expl. in Euclidean 351 **≫** 525 **1** 312 412 Applied Modern Intro to Modern Theory 487 465 88 Number Theory & Algebra for Secondary Math 433 Intro to 416 Discrete Math Geometry 526 403 is for Data Science students. Discrete State Alternative 416 prerequisite: Stochastic Math 465 and EECS 280 452 Laboratory of Intro to Calculus II Coding Theory Casualty 582 481 : 551 Continuous Linear Intro to Math Set Theory Intro to Real Logic 557 Analysis Applied **Graph Theory** inear Algebra Dynamics S)33 575 592 Analysis II (Real) Algebra II (Complex) KEY Area (approximate): Term(s) offered: Courses with related content 💓 Fall **Winter** Actuarial & Graduate Foundational Geometry/ Number from other Analysis Spring and/or Summer Course Course Finance Topology Theory department **⊃** Sporadic Honors Other Algebra Applied Other Education Logic Course is typically taught in traditional lecture style Course dept.

Unmarked courses are taught with active learning or IBL