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Chapter 2 : Graeme L. Cohen (Author of A Course in Modern Analysis and its Applications)

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No credit for those who have completed or are enrolled in Math . One of the main goals of the course along with every course in the algebra sequence is to expose students to rigorous, proof-oriented mathematics. Students are required to have taken Math , which should provide a first exposure to this style of mathematics. A distinguishing feature of this course is that the abstract concepts are not studied in isolation. Instead, each topic is studied with the ultimate goal being a real-world application. Sets and functions, relations and graphs, rings, Boolean algebras, semi- groups, groups, and lattices. Applications from areas such as switching, automata, and coding theory, and may include finite and minimal state machines, algebraic decompositions of logic circuits, semigroup machines, binary codes, and series and parallel decomposition of machines. Math - Differential Equations Math or ; and Credit: Credit is granted for only one course among Math , , and This is an introduction to differential equations for students who have studied linear algebra Math It treats techniques of solution exact and approximate , existence and uniqueness theorems, some qualitative theory, and many applications. Proofs are given in class; homework problems include both computational and more conceptually oriented problems. Applications to physical problems are considered throughout. Math - Principles of Analysis Prerequisites: Math and or permission of instructor Credit: No credit granted to those who have completed or are enrolled in Math This course has two goals: The course content is similar to that of Math , but Math assumes less background. This course covers topics that might be of greater use to students considering a Mathematical Sciences major or a minor in Mathematics. Analysis of the real line, rational and irrational numbers, infinity limits, convergence, infinite sequences and series, continuous functions, power series, and differentiation. Math - Fourier Analysis and its Applications Prerequisites: Math , , or Credit: No credit granted to those who have completed or are enrolled in Math or This course is an introduction to Fourier analysis with emphasis on applications. This is an introduction to Fourier Analysis geared towards advanced undergraduate students from both pure and applied areas. It should be particularly suitable for majors in the sciences and engineering. While the main effort will be to establish the foundations of the subject, applications will include the Fast Fourier Transform, the heat equation, the wave equation, sampling, and signal processing. Math Engin - Numerical Methods Prerequisites: Engin ; and one of Math , , or ; and one of Math , , , or No credit after Math or Math Background and Goals: This is a survey course of the basic numerical methods which are used to solve practical scientific problems. Important concepts such as accuracy, stability, and efficiency are discussed. Convergence theorems are discussed and applied, but the proofs are not emphasized. Floating point arithmetic, Gaussian elimination, polynomial interpolation, spline approximations, numerical integration and differentiation, solutions to non-linear equations, ordinary differential equations, polynomial approximations. Other topics may include discrete Fourier transforms, two-point boundary-value problems, and Monte-Carlo methods. One year each of HS algebra and geometry Credit: No credit granted to those who have taken or are enrolled in Math This course, together with its sequel Math , provides a coherent overview of the mathematics underlying the elementary and middle school curriculum. It is required of all students intending to earn an elementary teaching certificate and is taken almost exclusively by such students. Concepts are heavily emphasized with some attention given to calculation and proof. The course is conducted using a discussion format. Class participation is expected and constitutes a significant part of the course grade. Enrollment is limited to 30 students per section. Although only two years of high school mathematics are required, a more complete background including pre-calculus or calculus is desirable. Topics covered include problem solving, sets and functions, numeration systems, whole numbers including some number theory , and integers. Each number system is examined in terms of its algorithms, its applications, and its mathematical structure. Math - Explorations in Mathematics Prerequisites: None formally; see instructor

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beforehand Credit: The course is designed to show you how new mathematics is actually created: The format involves little formal lecturing, much laboratory work, and student presentations discussing partial results and approaches. Problems for projects are drawn from a wide variety of mathematical areas, pure and applied. Problems are chosen to be accessible to undergraduates. Math - Honors Analysis I Prerequisites:

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