

Math 496T-001 Spring 2018: Set Theory and the Foundations of Mathematics

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We will study elements of axiomatic set theory including: ZFC axioms, ordinals and cardinals, infinitary combinatorics, and the axiom of choice. Time permitting we will also look at models of ZF and ZFC including topics such as the constructible universe and perhaps forcing. This course will be of interest to students interested in the foundations of mathematics.

Text: TBA

Prerequisites: Students who wish to enroll should have some exposure to proof or mathematical logic. Any one of Math 323, Math 402, Math/Phil 401A, will suffice. Students with concurrent enrollment in one of these courses may also take this course with permission of the instructor. Registration is open in UAccess, but prerequisites will be verified (and enforced) later.