

PAUL AIZLEY
OLLI
SYLLABUS for MATH COURSE

SOME IDEAS IN MATHEMATICS

MATHEMATICS, NOT ARITHMETIC

Syllabus:

CHAPTER 1: A Little SET THEORY.

CHAPTER 2: All the NUMBERS

CHAPTER 3: Abstract Algebra

CHAPTER 4: How big can a set be?

CHAPTER 5: Does Area Change When We Take Out a Few Points?

The class will determine the pace of the topics and time spent on the related subjects. The goal is to show (1) one infinity is not enough and (2) why we need to rethink area.

Set Theory is a good starting topic to establish a common foundation for all students. The expectation is that students will have varied backgrounds in math and the syllabus may change over time to accommodate everyone.

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