

# Math 300 Course Outline

Fall 2004

Text :     *Proofs and Fundamentals*  
          A First Course in Abstract Mathematics  
          Birkhauser, Boston–Basel–Berlin  
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Web page : //www.math.sc.edu/~schep/math300-2004.html

Office hours : T-TH 10:30–12:00 ( or appointment)

Tests : 2 one hour tests, each counting 20%, 1 Final exam counting 30%

Tentative test dates: September 27, November 5

HW+Quizzes+Class participation : 30%

Homework assignments : //www.math.sc.edu/~schep/homework300-2004.html

Date of Final Exam : Friday, December 10 - 9:00 a.m.

Material to be covered : Chapter: 1, 2, 3, 4 , 5, some of 6, 7, 8, or 9

Goals of the course The goal of this course is to help you make the transition from Calculus (and Calculus like courses) to proof oriented courses such as Math 546 and 554. In Calculus the emphasis is on how to calculate things like limits, derivatives and integrals, while here the emphasis will be on definitions, statements and proofs. You will study abstract definitions, mathematical statements and proofs. You will be expected to devise and write clear, concise proofs using correct English and mathematical grammar.

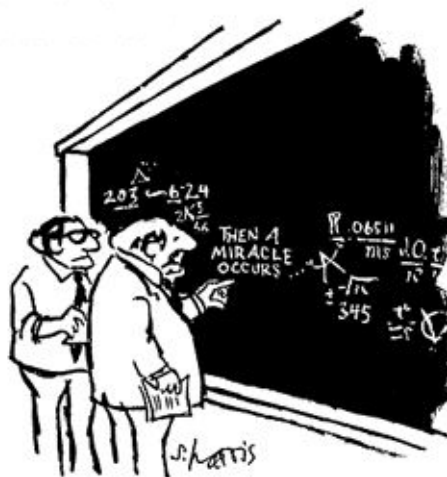
Class participation In-class presentations, critical evaluation of other student's presentations, contribution to class discussions, and written assignments will constitute a substantial part of your grade. You are expected to memorize definitions, work out details of examples and exercises. Class discussions will be based on these and you will be called upon from time to time to present your solution to homework assignments. The quizzes will mainly deal with definitions and theorems.

Make-up policy : No make-ups for missed homework or quizzes (lowest 2 or 3 scores will be dropped), make-ups for missed hourly tests or final will only be given if they were missed for legitimate reasons. In this case any effort should be made to contact me as soon as possible and you might need to provide documentation to support your reasons for missing the tests.

Cellphone policy It is the policy of the College of Science and Mathematics that all cell phones are turned off during classes.

Attendance policy : A grade penalty can be invoked, if more than 10% of classes are missed.

The following cartoon might resemble one of our classroom discussions.



**"I think you should be more explicit here in step two."**