MATH 295A - ELEMENTARY ANALYSIS  
WINTER 2012  
TR: 1:10 - 2:30 P.M. (HATHORN 305)

Instructor: Peter Wong  
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Office hours: 10:00 - 11:00 T, 11:00 - 12:00 W or by appointment  
Grading: Attendance/Class Participation - 30%, Oral Presentations - 30%, Written Assignments - 30%, Final Project - 10%  
Prerequisites: Math s21

The objectives of this course are: (i) to give students an opportunity to work together on topics of common interest; (ii) to allow students to develop research skills in mathematics; (iii) for students to gain experience in communicating mathematics through oral presentation and writing.

To achieve these goals,

(i) after reviewing most of Calculus I/II in the first few weeks, students will form small groups of 2 or 3 and each group will take turn presenting material (from journal articles) each week;

(ii) each lecture will be written up for distribution two weeks later;

(iii) frequent short writing assignments will be given and corrected (by peers);

(iv) special topics will be presented at the end of the semester as final projects.

The necessary conditions (but not sufficient) to successfully complete this class consist of:

1. achieving a minimum of 90% class attendance rate;

2. making ALL the deadlines for written assignments such as exercises, abstracts of talks, lecture notes, etc.
Tentative Syllabus

Week 1-2: Review of Calculus I,II material
Week 3-4: Series (review)
Week 5-8: presentations
Week 9-12: final projects

Most of the Calculus I/II material can be found in the following textbook.

REFERENCES