Instructor: Jonathan Cutler
Office: Richardson Hall 239
Email: cutlerjo@mail.montclair.edu
Phone: (973) 655-7247
Webpage: http://montclair.instructure.com/
Final Exam: Wednesday, May 11, 5.30-7.30pm
Class time/location: W 5.30-8.00pm, RI 273

Outline: This course will introduce most major topics in point-set topology. We will use the text as a general outline and supplement it when necessary. We will attempt touch on most the material in the text, although most of our time will spent on classical areas of the field, e.g., topological spaces, continuity, metric spaces, connectedness, and compactness. We should cover major results including the Urysohn Metrization Theorem, the Tietze Extension Theorem, the Tychonoff Theorem, and the Baire Category Theorem. Examples and counterexamples will be a point of emphasis throughout the course. The pace and material will be directly correlated with the environment in this class. An emphasis will be put on understanding mathematical rigor. Also, the lecture period should be thought of more as a discussion than a monologue. Questions before, during and after the lecture period are strongly encouraged.

Evaluation: There will be a midterm exam and a final exam, the format of which will be determined during the semester. The other portion of your grade will be split between homework and in-class quizzes. Every week it will be announced what form this evaluation will take (either homework problems, a quiz the following week, or a bit of both). The quizzes will be short checks to make sure that students are keeping up with the material in class. For homework problems, students are encouraged to work on together and ask questions to me or anyone else who may be of help, e.g., other students, other faculty, etc. However, each student should write up their solutions separately. The main goal of the problem sets is for the students to show the instructor a clear understanding of the exercise through a clear and precise solution. Occasionally, the instructor may ask students to present nice solutions to homework problems on the board. The homework/quizzes will be worth 50% of your final grade, while each of the exams will be worth 25% of your grade.

Office Hours: T 9.10-10.10am, W 4.30-5.30pm, R 1.20-2.20pm, and by appointment. Students are encouraged to come by the office whenever they have a problem and either ask questions immediately or set up an appointment. Of course, questions can also be asked over email or the phone, but being able to discuss the problem with a board around is preferable.

NB: Even though this is meant only as a very rough outline of the layout of this course, the instructor reserves the right to change any of the above during the semester subject to informing the students of these changes.