



The Graduate Center of CUNY
Ph.D. Program in Mathematics
Course Syllabus

Course Title: Topology I

Course #: MATH 70800

Time and Location: Tues. 12:00PM - 1:30PM & Thurs. 12:00PM - 1:30PM

Instructor Name: Joseph Maher

Contact Information: Cell: 718 982.3623; Email: joseph.maher@csi.cuny.edu

Pre-Requisites: TBA

Office Hours: Tues. 1:30PM - 2:30PM, Thurs.. 1:30PM - 2:30PM, Office # : 4307

Description:

Texts: Allen Hatcher, Algebraic Topology, Cambridge University Press, ISBN 0-521-79540-0.

Outline:

We will carry on from where the Fall semester Topology I 70700 left off. We will aim to cover Chapters 2 and 3 from Hatcher, and more if we have time.

Topics:

Homology: simplicial/singular/cellular homology, exact sequences, Mayer-Vietoris, Brouwer fixed point theorem, Hurewicz.

Cohomology: universal coefficients, cup products, Kunnetth formula, Poincare duality.

Webpage: <http://www.math.csi.cuny.edu/~maher/teaching/>

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