CUNY Ph.D. Program in Mathematics

Spring 2014

MATH 70800: Topology I

Meets Tuesdays & Thursdays, 12:00pm - 1:30pm, Rm. TBA

Prof. Joseph Maher


Brief Course 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 topics if we have time.

Topics:

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

- Cohomology: universal coefficients, cup products, Kunneth formula, Poincare duality.

See the course webpage for further information: http://www.math.csi.cuny.edu/~maher/teaching/2014/spring/topology/.