

Geometry, Topology, and Groups

Instructor- Professor Leininger
CRN: 64839

Description: The focus of this half-semester course will be hyperbolicity in group theory. We will start with a brief refresher of Gromov hyperbolicity and its implications in the study of groups. After that we will survey, in varying levels of detail, a number of other appearances of hyperbolicity in geometric group theory, including topics such as Bestvina-Bromberg-Fujiwara's projection complexes, Behrstock-Hagen-Sisto's hierarchically hyperbolic spaces, and Dahmani-Guirardel-Osin's hyperbolically embedded subgroups.

Students will be asked to present a few topics, and grades will be based on classroom participation.