

Mathematics 613: Topics in Analysis

This term, the course will be on

Hyperbolic Geometry of Riemann Surfaces
Quasi-conformal mappings
Teichmüller theory

If time permits, we will apply the theory above to

Topology, Dynamics and Geometry

The object of the course is to introduce Teichmüller spaces in such a way as to make the revolutionary uses of the theory by Thurston accessible.

The course should be accessible to students who have taken Math 611-612 or the equivalent; exposure to algebraic topology and differentiable manifolds would be helpful.

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