

SYLLABUS

Differential Geometry I (Math 6455) Spring 2013, Georgia Tech

Lecture
T Th 9:35-10:55 Skiles 270

Instructor

Professor [Mohammad Ghomi](#)

- *Office:* Skiles 203
- *Office hours:* T Th 1:30-2:30
- *Email:* ghomi@math.gatech.edu

Course Description

This class is an introduction to Riemannian geometry. In particular, we will study geodesics, the Riemann curvature tensor, Jacobi fields, Hopf-Rinow and Hadamard theorems, and spaces of constant curvature.

Prerequisites

Math 6457 or Math 4441.

Textbooks

Instructor's notes and *Riemannian Geometry* by Manfredo Do Carmo.

Grading

The grade is based on class participation (the students are expected to attend all lectures) and homework assignments.