

COURSE GUIDE

Math 675 - Fall 2008

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What is Math 675?

Math 675 covers the basic concepts of Riemannian geometry. In Mth 675 we will introduce Riemannian metrics, Riemannian connections, geodesics and curvature. We will study the relationship between geodesics and curvature as well as global questions.

TEXT

Riemannian Geometry, by Manfredo Perdigao do Carmo, Birkhäuser.

LECTURES

Our lecture meets MWF 11:00 in Gilkey 104.

PROBLEM SESSIONS

Every two weeks, starting Friday, October 10, we will use our Friday class hour as a problem session. The objective is to give you an opportunity to present your solutions to homework problems.

HOMEWORK

There will be problem assignments from the text or other sources. Every other Friday you will receive an assignment sheet with readings for the following week and the homework based thereon. Homework will be due at the Friday problem session two weeks later and will be the topic of discussion of that problem session. A portion of your homework will be graded and returned one week later.

OFFICE HOURS

Regular office hours: M 13:00 - 14:00, WF 10:30 - 11:00. The Monday office hour will be in the MLC. No appointments are necessary for these office hours. Please let me know if you have a conflict with these times and we can schedule another time.

GRADES

Homework 80%, problem sessions 20%.