

Math 240B Differential Geometry
GIRV 1115, MWF 11:00-11:50
Prof. R. Ye, Office Hours F 9:20-10:50, SH6509

1. The Plan

We'll cover as much material as possible from Chapter 1 through Chapter 7 in Do Carmo's book "Riemannian Geometry". Some material from Chapter 7 and Chapter 8 in Boothby's book "An Introduction to Differentiable Manifolds and Riemannian Geometry" will also be presented. Do Carmo's book is the required textbook.

2. Required Work The following work is required:

- 1) Nicely organized and presented lecture notes.
- 2) Homework.
- 3) The final exam.

Homework problems will be assigned during the lectures. Homework and lecture notes will be collected at the end of the quarter.

3. Grading policy Lecture notes 30%, homework 30%, and final exam 40%.