MTH 931: Riemannian Geometry II

Lecture: A216 Wells Hall, TuTh 12:40-14:00.
Instructor: Xiaodong Wang

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- Office Hours: MW 3:30PM-5:00PM.

Course description: This course is a sequel to MTH 930 (Riemannian Geometry I) taught by Prof. Parker last semester. We will continue to develop the fundamental techniques and prove some classic theorems in Riemannian geometry. Topics will include sectional curvature comparison, sphere theorems, Ricci curvature comparison, the Bochner technique, Gromov-Hausdorff convergence etc. Additional topics will be determined by time and interests of the students.


An electronic copy can be downloaded at http://link.springer.com/book/10.1007/978-3-319-26654-1

The following are several other useful references:

- J. Cheeger and D. Ebin, *Comparison theorems in Riemannian geometry*.
- T. Sakai, *Riemannian geometry*, AMS.

Homework and Grade: Homework will be assigned regularly. There is no exam. Your grade for this course will be solely based on your homework assignments.