MATH 8365, Fall 2018, MWF 01:25-02:15, VinH 2

Instructor: Jiaping Wang
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Office hours: MWF 02:30-03:20 (subject to change)

Course title and a brief description: Riemannian Geometry

The topics include Riemannian metrics, curvature, Bianchi identities, geodesics, Hopf-Rinow theorem, Jacobi vector field, comparison theorems, Meyers’ theorem, Cartan-Hadamard theorem, and Synge’s theorem.

Prerequisites: Math 8301 (Manifold and topology)

Text and material: ``Riemannian Geometry” by Manfredo do Carmo, Birkhauser, 1992

Exams and grading policy: There will be two take home exams (October 19 and November 30) covering appropriate parts of the material.

Grading scheme: Two exams, 50% each.

Make-up Exams: Make-up exams are permitted only for the most compelling reasons such as illness or university sponsored events. Written documentation and, except for medical emergencies, prior approval are required. Otherwise you will be given a 0 for the missing exam.

Statement on Incompletes, S/N:
The grade incomplete “I” will only be assigned at extraordinary circumstances (such as hospitalization), and only if a student has satisfactorily (a C-grade or better) completed all but a small portion of the work for the course, and has made prior arrangements to complete the work.
To obtain an S, you need at least a C- grade.

**Scholastic Conduct:** Each student should read his/her college bulletin for the definitions and possible penalties for cheating. During the exams you must do your own work. Students suspected of cheating will be reported to the Scholastic Conduct Committee for appropriate action. Academic dishonesty in any portion of the course shall be grounds for assigning a grade of F or N for the entire course.