University of Washington

Math 546

Spring 2019

General Information

Instructor:
Ethan Devinatz
Padelford C-554
phone: 685-4777
e-mail: devinatz@math.washington.edu
web: http://www.math.washington.edu/∼devinatz

Office hours: By appointment, or just drop in. The grader will be Tuomas Tajakka again ttajakka@uw.edu). He will also be available by appointment as well as shortly before each assignment is due.

Text: J.M. Lee, *Introduction to Smooth Manifolds*, second edition, available at the University bookstore. I have also put Spivak's *A Comprehensive Introduction to Differential Geometry, Volume 1*, on reserve in the Math Library.

About the course and prerequisites: We will begin with Chapter 9 in the Lee text and cover most of the rest of the book, with the exception of the chapter on symplectic manifolds. We will also only spend a very little time on de Rham cohomology.

Homework: Homework will be assigned more or less weekly and will consist of 5 or so problems to be written up and handed in for grading. This homework is expected to be demanding and will count for much of your grade. Although you are encouraged to share ideas on homework problems with your classmates, I expect you to actually write your homework on your own. You are also not allowed to use discussion boards on the internet, and any unattributed use of material from the internet constitutes plagarism. This will result in a grade of 0 on your assignment. (Repeated instances of plagarism may also lead to more serious sanctions.) In principle, late homework will not be accepted.

In addition, there are many exercises integrated into the text. Although these will generally not be assigned as homework problems, I expect that you read each exercise carefully and make sure that you know exactly how to solve it.

Final Exam: There will be a take-home final. Details will be announced later.

Grading: Your grade will be based 60% on the required homework problems and 40% on the final. A grade at or below 3.0 means you are not performing at the level expected of a graduate student.