

Math 637

Fall 2021

Lecture: MWF 10:00–10:50, 210 University Hall
Instructor: Nick Addington
Office: 208 Fenton Hall
E-mail: adding@uoregon.edu
Office Hours: Mondays and Wednesdays 11:00–12:00.
Web Page: <http://pages.uoregon.edu/adding/courses/637/>
Text: John M. Lee, *Introduction to Smooth Manifolds*

Grading. Your grade will be based on the following:

- **Reading (5%).** Due Sunday evenings on Canvas. Give a *short* summary of what you read, and one or more questions that you would like me to answer. These will just be graded on completion.
- **Homework (45%).** Due Fridays at the beginning of class. I will drop the lowest score.
- **Midterm (20%).** Friday, October 29, in class.
- **Final Exam (25%).** Wednesday, December 8, 10:15–12:15, in the usual room.

Learning outcomes. The successful student will become comfortable with the inverse function theorem, differential forms, and vector fields and their flows, developing both intuitive understanding and technical facility. They will be able to write precisely but succinctly about geometric ideas.