Syllabus — Math 765

Winter 2011 — Jim Fowler

This course is the first in the differential branch of the core topology and geometry curriculum of the Ph.D. program and provides a basic introduction to smooth manifolds.

Resources

We present five resources to help you to learn about manifolds.

Office hours

If you have questions, want to work through problems, or just talk about mathematics, please attend office hours.

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Office Hours: Monday Wednesday Friday 2:30–3:18P.M. and by appointment

Please email me with any concerns you have; the success of this course depends on open communication.

Textbook

Our text is John M. Lee's "Introduction to Smooth Manifolds."

Website

I will post handouts at `http://www.math.ohio-state.edu/~fowler/teaching/math765/`.

Lectures

We meet Mondays, Wednesdays, and Fridays, 1:30–2:18P.M. in Scott Lab E0245 for a lecture.

Assessment

There are 1000 points possible in this course, broken down as follows.

10 problem sets (600 points; 60 points each). Homework is assigned each week, usually assigned on Monday, and collected the following Monday.

You should work on the homework problems together, but you must write up your solutions independently.

You must stay caught up with the homework. But I understand your schedules are very busy, so I will not penalize you for *occasionally* turning in late homework. Do not make a habit of it.

10 quizzes (50 points; 5 points each). Each Friday, we will have a short quiz.

1 final exam (350 points). The final examination will be a take-home exam, distributed at the last lecture and due the following Thursday.