

# MAT 531: Topology & Geometry, II

## Spring 2011

### Midterm Information

The midterm will take place on Wednesday, March 23, 5:15-6:45pm, in Harriman 115. It will cover Chapters 1, 2, and 4 of the textbook (except for 1.26, 2.33, 2.34, 4.11, 4.12) and *Lecture Notes*. Chapter 2 of the latter is not in the textbook; the rest is in textbook, but in different words. Please **bring paper and pencils** (you'll receive a sheet with questions, but not an exam booklet to write in).

There will be no class on Tuesday, March 22, but I'll have office hours 2:30-4pm in Math 3-111 then (as well as on Wednesday 9-12 as usual). Please drop off your PS6 before 5pm on Tuesday, March 22, in Math 3-111 (if I am not there, just put it under the door); the solutions to PS6 will be available on the course website shortly after 5pm.

After you turn in the exam, please sign up for a time on Thursday, March 24, to pick it up. If you are able to do so in the morning, please do, leaving the later time slots for those who cannot. The midterms will not be returned in class.

You should be able to do all of the exercises from the three chapters of the textbook we have covered (except the ones that involve Lie groups), from *Lecture Notes*, and from the old midterms, as well as all homework problems (there is a bit of overlap between these). Make sure you are familiar with the main theorems and techniques covered so far.

This year's midterm will be fairly similar in style to the Spring 06 and 10 midterms. However, this does not mean that the differences will essentially consist of replacing some numbers and functions by others. You should use the old midterms as a rough guide as to what this year's midterm might look like.

If you are asked to prove anything, on the midterm or the final (or the comps), you should assume all the standard facts that are appropriate for the given question and state clearly what you are using.