

## Math 563 - Introduction to Differential Geometry - Spring 2008

MWF 11:15 → 12:05 LGRT 319

**Instructor:** Eyal Markman

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**Office hours:** Wednesday 1:00 → 2:30 pm, Friday 12:30 → 1:30 pm, and by appointment.

**Text:** *Differential Geometry of curves and surfaces*, by do Carmo, Prentice Hall 1976.

### Syllabus:

Ch 1: Sec 1.1 → 1.5 (Samples from Sec. 1.7 as time permits)

Ch 2: Sec 2.1 → 2.5,

Ch 3: Sec 3.1 → 3.3

Ch 4: Sec 4.1 → 4.5 (Section 4.6 if time permits)

Ch 5: Sec 5.3, 5.4 (if time permits)

**Homework :** Will be assigned weekly and will be due each Friday unless otherwise mentioned. Students find the problems in the text interesting and *challenging*. You are encouraged to work in groups. Each student is expected to hand in a separate homework paper. The homework will be graded by a special grader. Due to lack of funds, it will not be possible to grade all the homework problems assigned. A few of the homework problems will be corrected and graded every week. Nevertheless, for your own benefit, you will be asked to hand in *all* the homework problems assigned. Your grade on each homework assignment will be calculated as follows:

70% The grade on the corrected problems.

30% Credit for handing in *most* of the homework problems assigned. Partial credit will be given.

Late homework will not be collected. Instead, your three lowest grades will be dropped.

### Grades:

Homework—40%

Midterm—30%

Final Exam —30%

**Midterm:** Date to be determined.

**Final:** During the week beginning Thursday, May 15 and ending on Thursday, May 22. The precise date is yet to be determined. Make sure to be around! Travel plans will **not** be accommodated!