

Math 23A –Vector Calculus

Summer 2012 –Session 1

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Office Hours: TBA

TA: TBA

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Sections: TBA

Text: Vector Calculus, Marsden and Tromba, 6th edition. This book is new and has an image of the sun, moon, and earth on the cover. Older editions will not contain all of the homework problems.

Grading: Homework 20%, Midterm 30%, Final 50%

Exams: The midterm will cover chapters 1 and 2 of the text. The final will be comprehensive, but will emphasize chapters 3 and 4. Both exams will be held in class.

Homework: Homework will be assigned every lecture and will be due in class every Monday. Problems assigned on MWF are due the following Monday. Many problems will be assigned – only some (about 10) will be graded. Exams may include HW problems. Late HW will be accepted at a penalty.

Resources: The TA and I are your primary sources for help with the material, but other resources are available. The UCSC math department website has a list of private tutors. Other textbooks (eg, Multivariable Calculus by Stewart, or by Larson, Hostetler, and Edwards) and websites (eg, Wikipedia, Mathworld, even Youtube) are helpful.

Remarks:

This class is going to move very quickly and cover some advanced material. Keeping up with HW and reading is essential.

If you qualify for classroom accommodations because of a disability, contact me and the DRC (459-2089) as soon as possible.

Sections are optional but highly recommended. You should treat sections as HW sessions where you will work on problems with the TA and other students, discuss solutions to more difficult problems, and review for exams.

It is my sincere goal to pass everyone in this class. For this to happen, students need to read the material before and after lecture. Exams happen nearly every two weeks, so falling behind may prove fatal. Do all of the homework every week. We will follow the book closely, so reading ahead is highly recommended.

One last motivating remark: if you get an A on the final, you will get an A in the class!