MAT 271 Calculus III

Spring 2013

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Lecture: Mon., Wed.: 3:00pm-4:40pm,
Room: Campbell Hall 232

Office Hours: Mon., Wed., Fri.: 12:00pm-1:00pm, Mon., Wed.: 2:00am-3:00pm, Tues.: by appointment.

Homepage: http://faculty.ycp.edu/~hyuan/.

Textbook: Both of the following textbooks should work. But I would suggest the second one since the first one is missing the chapter of parametric equations and polar coordinates.


Material Covered

*Calculus*: chapter 10;
*Multivariable Calculus*: chapter 11-15. May have to drop a few sections in chapter 15 due to lack of time.

Topics covered: parametric equations and polar coordinates, vectors and geometry of space, vector-valued functions, functions of several variables, multiple integration, vector analysis.

Course Requirements

Homework: Homework will be assigned weekly and you can work on your own or with a classmate as a group (turning in one copy for the whole group with name of each in the group written on the homework). Each homework should represent the efforts of the group not just one member of the group. Usually homework will be collected in the last class of a week. NO late homework will be accepted. I’ll drop the two lowest homework assignments at the end of the semester. Because of this, if you forget to hand in your homework, being sick, or any other reasons, I won’t accept late homework except in some extraordinary circumstances, like a regular college team match or being sick for a long time.

Exams: There will be two in-class midterm exams. Exam problems will be mostly based on the examples discussed in class and problems on homework. As a result, it is strongly encouraged that you attend every class and take detailed notes. Your notes should be accurate. In particular, all material written on board should be faithfully and legibly recorded in your notes. One particularly effective study suggestion is to develop the habit of rewriting the notes for a class before the next class. Should you need to miss a class,
please ensure that you get the notes from another student in the class.

**Quizzes:** A quiz will be given at the end of the last class every week. Quiz problems are usually from the homework assigned the week before the quiz is given. For example, if I assign the first homework this week, then the first quiz will be given next week, and the problems are usually from the first homework. The two lowest quizzes will be dropped at the end of the semester. Because of this, if you miss a quiz as you forget, are sick, or for any other reasons, I won’t give any makeup quiz except in some extraordinary circumstances, like a regularly scheduled college team match or being sick for a long time.

**Final:** There will be a cumulative final exam at the end of the semester. The majority of the final will be on the material that haven’t been tested after the second midterm.

**Grading Policy:**
- Midterms: 15% each.
- Homework: 15%.
- Quizzes: 20%.
- Final: 35%.

Adding the scores of your midterms, homework, quizzes, and final exam, you get your overall score. The average percent of overall scores of the class will be set up as a B (or B+ if the average is very high). About top 30% people will receive an A.

**Calculator:** You should have a scientific calculator (one that can handle trig functions, exponentials and logs) and may use it on homework and in class. You may NOT use a calculator on quizzes and exams.

**Absence Policy:** Attending class is not mandatory. However you are responsible for whatever happens in class.

**Academic Honesty:** I take very seriously any violation of academic honesty. Cheating on any exam and homework will result in failure for the course and a letter placed in your academic life. Giving someone a help on an exam is just as bad as receiving help and both parties will be penalized.

* This syllabus is subject to change.