

**Mathematics 211**  
**SYLLABUS**  
**Fall 2006**

Instructor: Fang Chen

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Office Hour: To be announced weekly on the class conference

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**Course Content:** Mathematics 211 is the third semester of calculus. It revisits and adapts the concepts from first-year calculus in the setting of three-dimensional space. The main topics are geometry in space; vectors; functions of more than one variable including vector fields; the limits, differentiation, and integration of such functions; and applications.

**Course Objectives:** At the end of the course, a student should be able to do the following: to sketch three-dimensional graphs, to understand how the calculus of single-variable functions generalizes to multivariable functions, to evaluate limits of multivariable functions and vector fields, to discuss the roles of these processes of multivariable calculus in solving problems, to understand better the material of first-year calculus.

**Textbook:**

Susan Jane Colley, *Vector Calculus, Third Edition*

**Attendance:** Students are expected to attend all classes and are responsible for all material covered in class as well as any changes made in the schedule regarding homework and tests. Class attendance and consistent preparation for class will determine the success or failure the student realizes in this course.

**Written Work:** Thoughts are expressed by sentences. Your written work must be in complete sentences. Use mathematical symbols wherever appropriate; do not use a lot of words. Pay attention to how the problems are worked out in the textbook. Your work should be neat and legible. It is common practice to rewrite solutions once they are found.

**Learnlink:** There is a class conference on Learnlink, **Math211Fall2006**. Outlines of each class will be posted there. This includes topics covered that day, homework assignments, suggestions on studying the textbook and other announcements. Students may ask questions and make requests of a general nature on this conference. Individual concerns should be sent directly to your professor. Students should place this conference on their desktop and check it frequently.

**Homework:** Homework will be assigned on a regular basis in class and will be collected and graded.

**Tests:** There are three out-of-class, self-scheduled, closed-book, timed tests, each worth 100 points.

**Problem Sets:** There are two midterm problems sets and a final problem set. The problems sets are take-home and open-book. You are not allowed to use any other books or consult another person. At least a week will be given to work on each problem set. During that time the student is expected to keep up with the regular class work. The final problem set takes the place of a final exam. The problem sets are cumulative, increase in value, and are worth 100, 150, and 250 points respectively.

**Calculators:** In general, calculators will not be allowed unless the opposite is announced.

**Grading:**

3 tests @ 100 points each	300
Problem Sets (100, 150, 250)	500
Homework	100
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Total points	900

The following scale will be used to assign letter grades:

A:	roughly more than 90 %
B:	80 – 89 %
C:	70 – 79 %
D:	60 – 69%
F:	below 60 %

Grades of A-, B+, B-, C+, C-, D+ may be assigned.

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