

# MATH 214 - Section 3

## Calculus of Several Variables

### Syllabus-Winter 2003

**Professor:** Tiancheng Ouyang

**Office:** 338 TMCB

**Office Phone:** 422-4141

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**Office Hours:** MWF 1:00–2:00pm

**Texts:** *Calculus*, 8th ed., by Salas, Hille, and Etgen

**Course Meeting:** 12:00–12:50 pm 116 TMCB

**Course Description:** In this course, you will learn the mathematical foundations necessary in the study of differential equations, physics, . . . , and engineering. This will include such areas as vector spaces, vector functions, double and triple integrations and line and surface integrals. Topics include: describing and analyzing motion in 3-space; understanding surfaces and hypersurfaces in  $n$ -space for  $n \geq 3$ ; vector field theory.

**Course Web Page:** There will be a course web page at <http://www.math.byu.edu/~math214-3>. It contains most of the information about and material for this course, such as: how to contact your professor; the course schedule; homework information; and pretest information. You should check this site regularly.

**Lecture Schedule:** A course schedule listing the specific topics that will be covered on each day will be available at the course web page

**Homework:** Homework will be assigned every day the class meets. A list of the homework will be available at the. You are encouraged to work with other students in the class by discussing these problems. However, the assignment that you hand in should be your own work; i.e., when you write up a problem you should not look at anyone else's work (copying does constitute cheating!). These assignments are due in the next class after being assigned.

**Tests:** There will be a pretest, 3 exams, and the final exam. The pretest will cover material from Algebra and Trigonometry, Calculus I, and Calculus II. Sample practice questions are available on the web at the course web page final exam will be comprehensive. The schedule for these tests are:

<u>Test</u>	<u>Location</u>	<u>Dates</u>
Pretest	Testing center	Fri. Jan.10 - Sat. Jan. 11
Exam 1	Testing center	Fri. Jan. 24, Sat. Jan. 25 or Mon. Jan. 26.
Exam 2	Testing center	Fri. Feb. 21, Sat. Feb. 22, or Mon. Feb. 23.
Exam 3	Testing center	Fri. Mar. 14, Sat. Mar. 15, or Mon. Mar. 16.
Final Exam	Testing center	To be announced,

**Grading:** The assessment items will determine your final grade in the following way:

Homework	15%
Pretest	10%
Exams 1 - 3	45% total (15% each)
Final Exam	25%
Instructor's Discretion	5%

Letter grades will be assigned as follows:

	B+	= 89-87%,	C+	= 79-77%,	D+	= 69-67%,		
A	= 100-93%	B	= 86-83%,	C	= 76-73%,	D	= 66-63%,	E = 59-0%.
A-	= 92-90%	B-	= 82-80%,	C-	= 72-70%,	D-	= 62-60%,	

**Miscellaneous:**

Preventing Sexual Harassment: BYU's policy against sexual harassment extends not only to employees of the university but to students as well. If you encounter sexual harassment, gender-based discrimination, or other inappropriate behavior, please talk to your professor, contact the Equal Employment Office at 422-5895, or contact the Honor Code Office at 422-2847.

Students with Disabilities: BYU is committed to providing reasonable accommodation to qualified persons with disabilities. If you have any disability that may adversely affect your success in this course, please contact the Services for Students with Disabilities Office at 422-2767. Services deemed appropriate will be coordinated with the student and instructor by that office.