

**MATH 234-61: Multi-variable Calculus**  
Spring 2006 MTWF 1:50 - 2:40 pm C109 Wells Hall

**Instructor Information:**

Lawrence Roberts  
A345 Wells Hall  
lawrence@math.msu.edu

**Office Hours:**

M 2:45 - 4 pm  
W 12 - 1 pm  
TH 11 am -12

**Recitation Instructor:** T 1:50 - 2:40 pm C109 Wells Hall

Michael Hagedorn  
hagedor5@msu.edu  
He will announce his office hours.

**Book:** *Thomas' Calculus*, Thomas and Finney. 9<sup>th</sup> Edition (the older one).

**Course Website:** [www.math.msu.edu/lawrence/math234.html](http://www.math.msu.edu/lawrence/math234.html), or use the course website link on the math homepage: [www.math.msu.edu](http://www.math.msu.edu)

**Material Covered:** Chapters 10 - 14. How to adapt calculus to the setting where there is more than one independent or dependent variable. This is a very common situation in applications as it is what is needed for a three-dimensional world.

**Grading:** Out of a total of 100 pts: Final 30 pts; four mid-terms worth 15 pts each; for remaining 10 pts, see below. There will be no make-up exams, so if you know you will have difficulty with the current schedule please tell me as soon as possible. In cases of legitimate and documented absence, i.e. illness *with* a doctor's note, the final will count for more. There will be *no* alternative to the final; failure to take the final will automatically result in a 0.0 grade. The graded exams will be returned in lecture by the end of the week; taking your graded exam from the room after it is returned will indicate complete agreement with the grading.

**Homework:** Homework will be assigned daily and will be presumed to have been completed by the next lecture or recitation. The homework schedule is available at the website.

**Quizzes:** Instead of collecting homework, a quiz will be given. The quizzes will occur every week that there is no exam and be given in the recitation on Tuesdays. The grades on the quizzes, dropping the lowest two, will comprise the remaining 10 pts.

**Calculators:** Calculators will not be permitted on the exams or quizzes.

**Important Dates:**

January 9	Classes begin
January 16	Martin Luther King Day
January 20	Last date to add, drop or change a section
January 31	FIRST EXAM
February 3	End of tuition refund period
February 21	SECOND EXAM
March 1	Last day to drop with no grade reported
March 6-11	Spring Break
March 28	THIRD EXAM
April 25	FOURTH EXAM
April 28	Classes end
May 2	FINAL 10 am - 12 noon Room TBA