

Analytical Geometry & Calculus 2

Math 221, Summer 2009

Muhammad Naeem Ahmad, Coordinator, CW 128

Course Website: <http://www.math.ksu.edu/math221/summer-2009/>

Textbook: *Calculus* (6th Edition), by James Stewart; published by Thomson Corp., ISBN 0-495-13129-6

Calculator: Calculator is neither needed in the class nor allowed in the exams.

Objective of the Course: Calculus is the branch of mathematics which studies quantities undergoing change. Calculus is used to address all kinds of problems, ranging from the studying of the change in the position of planets with respect to the time to analyzing the change in demand for gas guzzling cars with respect to the price of gasoline. Since almost everything in the world changes, calculus has applications in every part of science and engineering. Yet, in its narrowest sense, calculus may be regarded as treating two geometric problems: computing the tangent lines to the graphs of functions and computing the area of regions bounded by the graphs of functions. In calculus-II, these things will be studied in more details than Calculus-I by using newer integrations techniques, and new coordinate systems like parametric and polar, and newer functions which arise as infinite series.

Office Hours: Each instructor will have his or her own office hours.

Lecture and Homework: Lectures are conducted by your recitation instructor. Be sure to bring the text book when attending lectures. Homework is due on dates specified on your tentative schedule (see the schedule sheet) and should be turned in the homework boxes across the hall from the main math office (next to CW 120) by 5pm on the day it is due. There will be 11 homework assignments in total each worth 30 points. The lowest homework score will be dropped and the rest will be rescaled to 150 points total. Each set contains multiple problems from each section, only a few of which will be graded, selected randomly by the coordinator. While doing homework, a mere answer or a sketch of the solution is not enough. Please always write legibly and present your solutions in an organized way and put your solutions to the problems in the exact order in which they were assigned. The homework graders have too little time to search through your homework, or to try to decipher what you've written. Moreover, your work will be graded not only on the correctness of the problems, but also on exposition. If your work is illegible or confusing to read, it may be counted as incorrect. Homework must be stapled and not folded. If you fail to follow any of these rules, your homework might be rejected and you will receive no credit. Finally, all homework assignments must be clearly numbered and dated beside your and your instructor's name at the very beginning. Example: Tom Hanks, Meg Ryan, Homework 5, Due: June 26.

Grading: Final grades A-F by cut offs on the total points. Total 600 points: 150 points for homework, 150 points on midterm exam, 200 points on final exam and 100 points for in class participation, quizzes, or attendance, etc. Your instructor will explain exactly how your class grade will be determined. Letter grades will be assigned for midterm exam, but these will be only considered as an indication of your progress.

Exams: Exams are closed book, with no calculators allowed and will be held in the same room at the same time as your usual class meetings. The midterm will take place on Thursday, July 2nd. The Final Exam will take place on Friday, July 31st. Questions will be modifications of homework problems or examples of the text.

Late Work and Make-Up: No late work will be accepted, and in general no make up exams will be given. If you have a good excuse, such as a medical condition and you are able to provide a written document to prove your case, then you will be allowed to drop that exam/homework, and the rest of the grades from the same category will be scaled. You must take the Final Exam in order to get a grade A-D. If at all possible, inform your instructor of your absence ahead of time. In case of emergency, try to inform your instructor or the Department of Mathematics by phone.

Other Information: Information concerning solutions to exams, grading scales on the exams, help sessions and schedules, and other information relevant to the course will be posted on the Calculus 1 bulletin board in the hall outside Cardwell 128. In addition to seeking help from the instructor during office hours, help sessions are available Monday through Friday during the day. A help sessions schedule will be posted on the bulletin board across from the Math Office (CW 138). Several instructors will be present to help you. Tutors for Calculus can be located through the Math Department office, or through numerous service organizations on campus.

Important: If you have any health conditions that should be addressed, please inform your instructor immediately, and accommodation will be provided.

Academic Dishonesty: Strictly prohibited. See the University Handbook for more information.