OBJECTIVE: 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 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.


WEB PAGE: http://www.math.ksu.edu/math220/fall-2008 This web page contains links to the syllabus, supplementary notes, sample exams, room assignments for the exams, a copy of the syllabus, announcements, and other useful information.

PROCEDURE: This course is organized along the lecture-recitation method. Each week you are expected to attend two lectures (Tuesdays and Thursdays) and two recitation classes (Wednesdays and Fridays). The material to be covered in each lecture along with the corresponding exercise set is indicated on the attached assignment sheet. You should read the assigned material before each lecture and, after each lecture, re-read the material and do as many of the assigned exercises as you can before the next recitation class. Try to get the remaining exercises worked in your recitation class, but one way or another, you should eventually have all of the assigned exercises solved. Problem solving is the most important aspect of this course.

GRADING: Your recitation instructor will administer your exams and determine your final letter grade. You may earn 712 points in this course: 100 points on each of the three hour exams and 200 points on the final exam, 112 points for homework and 100 points in recitation (for quizzes, class participation, or attendance). Your recitation instructor will explain exactly how your recitation grade will be determined. Letter grades will be assigned for each exam, but these should be considered only as an indication of your progress.

HOMEWORK: Homework is due by 6pm each Monday in the homework boxes next to CW 120 (except for the first assignment due Tuesday, Sept 2, and the sixth assignment, due Tuesday, Oct 7.) The assignments and due dates are listed on the syllabus below. Included with this syllabus is an Algebra Worksheet. Write your name and your recitation instructor’s name at the top of the front page and staple your homework. Place your homework in the box labeled with your recitation instructor’s name and your recitation day and time. Homework Problems.

Missed Examinations: If you miss or expect to miss an hour examination for a legitimate reason (for example, a serious illness), then notify your recitation instructor as early as possible. If your recitation instructor excuses your absence from an hour exam, then your score on that exam will be the weighted average of your other exam scores. If your recitation instructor does not excuse your absence from an hour exam, then your score on that exam will be zero. There will be no make up exams. If you miss more than one hour exam or the final exam, for verifiable personal emergencies, then it is possible to receive the grade of “Incomplete” for the course. It is your responsibility to work out the details with your recitation instructor before final grades are made out. Under no circumstances will the grade “Incomplete” be awarded simply because the student is failing the course.
ACADEMIC DISHONESTY: Plagiarism and cheating are serious offenses and may be punishable by failure on the exam, paper or project, failure in the course and/or expulsion from the University. For more information refer to the academic dishonesty policy in “Inside KSU”.

GENERAL INFORMATION: Information concerning the location of exams, solutions to exams, grading scales on exams, help session locations and schedules, and other information relevant to the course will be posted on the Calculus 1 bulletin board and Web page.
If you have any condition, such as a physical or learning disability, which will make it difficult for you to carry out the work as I have outlined it, or which will require academic accommodations, please notify me in the first two weeks of class.

HELP/TUTORING: Your recitation instructor will announce office hours during which you may seek help. In addition, help session are held Monday through Thursday in Cardwell Hall. A help session schedule will be posted on the main bulletin board across from the Mathematics Office (CW 138). Several instructors will be present to help you. Tutors for most math courses can be located through the Mathematics Department or through numerous services organizations on campus. Tutoring is also available through the Academic Assistance Center (Holton 101, phone 532-6492). Lists of individual tutors (who charge $5 to $20 an hour) for Calculus 1 are available from the Mathematics Department (CW 138, phone 532-6750). For more information on tutoring and academic assistance available on campus see the bulletin board across from Cardwell 138.

Click Here for HELP List

TIPS FOR STUDYING: The most common reasons for difficulty with Calculus are poor algebra skills and failure to study consistently. You must study this course every day. Try to work all assigned problems before recitation. Most students need to go over the more difficult problems several times. You should plan on spending a minimum of two hours outside of class for each hour in class, that is, at least eight hours per week outside of class. It is important to take careful class notes. The act of getting the ideas and methods outlined in the lecture down clearly on paper is a powerful aid to memory. (It doesn’t matter if the ideas are already in the book. Taking them down in writing helps fix them in your memory.) It is also a good idea to review your notes repeatedly, partly to identify areas of confusion, partly to review what you know. If you do not understand some concept or technique seek help immediately! You must stay on top of the material from day one. Many students find that they frequently need one-on-one instruction to fully master the techniques of this course. Experience has shown that the students (having difficulty) who come to the office hours or the instructor regularly, or go to help sessions tend to do better in the course. See “How to succeed in KSU Math courses” for further tips.