Math 205: General Calculus and Linear Algebra
Spring 2009

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Course Website: http://www.math.ksu.edu/math205/math205.s09

Textbook: Applied Calculus, 3rd edi., by Hughes-Hallett et al

Calculator: You need one capable of college-level calculus and graphing. A TI-83 is sufficient.

The Course: Study concepts, properties and techniques in calculus and linear algebra. Learn their applications to business, management, and economics. Learn to analyze the mathematical nature behind realistic problems. Develop your ability to analyze relationships between quantities in a given model.

Office Hours and Help Sessions: Each instructor will have his/her own office hours. In addition, help sessions are held Monday through Thursday during the day in Cardwell Hall. Help Sessions begin the second week of class. There will be a help session schedule posted across from the Math office in Cardwell and also on the Math website. Several instructors will be present to assist you. Tutors for most math courses can be located through the Mathematics Department or through numerous service organizations on campus.

Lecture and Homework: Lectures are conducted by your recitation instructor. Be sure to bring textbook when attending lectures. Homework assignment after each class is due on Tuesday 5pm of the following week (see the schedule sheet). In particular assignments after Monday classes are also due on the Tuesday of the following week (and not of the same week!). Only a part of the problems randomly selected is graded each week. Neither late nor early homework is accepted. You can turn in your homework 2 or 3 days earlier the due date, but not one week earlier.

Notecards and Quizzes: Attendance is required. As an alternative way to take attendance, we will have pop-up quizzes and notecards. Each Monday in class you need to turn in a 4 × 6 notecard. To do this you need to read through the sections to be covered in the week, and write down the definition, description, or statement of what you think to be the key concepts or methods in each section to be covered in the week.

Grading: Total 750 points. Final grades A-F by curve.

• Homework: 14 in total, with the lowest two dropped and the rest scaled to 150 points.
• Three mid-term exams, with 100 points each.
• Final exam (cumulative): 200 points.

• Another 100 points come from your classroom attendance, note cards, and quizzes. A notecard weighs the same as a quiz, with grading 0-3. Three lowest grades will be dropped.

Attendance & Participation in Class: A substantial part of the class time will be dedicated to hands-on activities and working through the homework problems. In-class participation will count for a substantial percentage of the final grade.

Tips for succeeding in this course: Please note that your grade is significantly based on your homework score + in-class participation. This reflects how important it is to do your homework as it is impossible to learn mathematics without actually solving problems. I recommend that you try your best to solve the homework exercises before coming to class and ask specific questions during class. Group study is encouraged. The problems in the exams will be very similar to the homework problems. Exams are Closed-Book, with calculators allowed.

Preparing your Homework: There will be homework boxes assigned to each math class. The boxes are located next to CW 120. You will need to find MATH 205 box with the name of your instructor (which is usually different from my name Victor Turchin!). For full credit show your work in detail. By courteousness to the grader:

• Please always write legibly and present your solutions in an organized way.

• Please 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.

• Your work will be graded not only on the correctness, but also on your exposition. If your work is illegible or confusing to read, it may be counted as incorrect.

• Homework must be stapled and not folded. Please do not try to attach pages together by folding at the corner and do not use paper torn from spiral notebooks. If you fail to follow any of these rules, your homework might be rejected and you might receive no credit.

• Finally, all homework, quizzes, and notecards must be clearly numbered and dated besides your name at the very beginning. The homework should also indicate the name of your instructor. Example: Tom Smith, Homework 1, Due: Jan 27th. Instructor: Victor Turchin.
**Late work and make-up:** No late work will be accepted, and in general no make-up exams. If you have a good excuse, such as a medical condition, and you are able to present a written document to prove your case, then you will be allowed to drop that quiz/notecard/exam/homework, and the rest of the grades from the same category will be rescaled. 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.

**Academic dishonesty:** Plagiarism and cheating are serious offenses and may be punished by failure on the exam, failure in the course and/or expulsion from the University.

**Other information:** 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 your instructor in the first two weeks of classes.