MATH 2144 – 010: Calculus I
Spring 2011

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Class: MTWF: 10:30-11:20 at PS153
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Course Information: D2L (http://oc.okstate.edu)

Textbook: *Calculus: Early Transcendentals, OSU ed.*, James Stewart. We will cover about three sections each week. It is highly recommended that you read each section before the corresponding lecture. I will not necessarily cover everything in each section and my way of covering some material may differ from that of the author.

Prerequisites: Two years of high school algebra and one year of high school trigonometry, or MATH 1513 and 1613 at the college level.

Course Objectives: This is a first course on Calculus. Students will learn the basic concepts of limits, continuity, differentiation and integration of the function of one variable.

Examinations: There will be three in-class examinations with a maximum possible score of 100 points each and 200 point comprehensive final examination. You are allowed to use a calculator no more powerful than a TI-89 graphing calculator. No palmtop or laptop PC's are allowed. You are required to show all steps in your solutions. If the answer is required to be exact, for full credit you must give simplified exact formulas for the answer. For example, $\sqrt{2}$ is an exact formula while 1.414 is only a numerical approximation? No access to notes or books will be allowed during exams.

1st Midterm Exam: Thursday, February 8th, during class (50 minutes)
2nd Midterm Exam: Friday, March 29th, during class (50 minutes)
3rd Midterm Exam: Friday, April 22nd, during class (50 minutes)
Final Exam : Wednesday, May 4th, 10:00 – 11:50am

Make-up Exams: Make-up examinations will be given only for very serious and unavoidable conflicts, and only if your request to present a make-up examination is approved by your instructor in advance (More than 1 week). (Travel plans, cheap airline tickets, etc, do not qualify.)

Homework: Homework will be assigned regularly using WebAssign (see below for details). You must submit it online. You will normally have two homework sets each week, and each homework is typically due at 6:00am. Some written homework may also be assigned occasionally. Late homework will not be accepted for any reasons. Homework will be worth 200 points after scaling.

WebAssign: This is the online homework system we will use. You should set up your account and self-enroll for access to our section during the first week of class at the website: http://www.webassign.net/login.html. A class-key is needed for self-enroll. The class key for our section is **okstate 2249 7760**.

Some sites you may find useful are below:
-Self Enrollment Instructions
-Student's Guide to WebAssign

Working problems in the textbook is also strongly recommended. Answers to the odd-numbered questions are in the back of the text, and should be read carefully. It is your responsibility to complete enough problems to be prepared for the exams. Please take note of problems you would like to discuss in class and be sure to press me to go over them.

Attendance: Attendance of lectures is mandatory in the sense that you are responsible for all announcements of changes in schedule made during class, as well as all material covered during lectures. Roll will periodically be taken, but not every class. If you're missing a lot of classes, you can expect to be contacted.

Grading: You have to show detailed work which can conclude your final answer. This course is about correct processes for solving problems and understanding of concepts. A correct answer with little or no supporting work may be given little credit. You should use sentences to define any unknowns and indicate units as appropriate. I will, at least once, write such things on the board to give you a model to follow, when giving examples in class. When getting an answer which does not seem reasonable for yourself, you may receive some credit for explaining why the answer you computed seems wrong.
On tests it is important to clearly indicate what is scratch work and what is to be graded. In particular the answer to a computational problem should be indicated either by the word 'Solution:' or by drawing a rectangle around the answer.

Course Evaluation: Course grades will be determined according to the following distribution.

Homework	**200 points**
In-class Exams	**300 points**
Final Exam	**200 points**
TOTAL	**700 points**

It is your responsibility to keep all graded exams and homework in case there is a discrepancy with the recorded grade.

Guaranteed Minimum Grades: The following grades are guaranteed as minima.

90% (630 points)	**A**	**60% (420 points)**	**D**
80% (560 points)	**B**	**Less than 60%**	**F**
70% (490 points)	**C**		

MLRC (Mathematics Learning Resource Center): MLRC, located at CLB 420, is an invaluable resource to support your mathematical learning. I encourage you to go there regularly to do your homework and to use the materials that we have made available to you. **Remember to use the tutors to help you learn, NOT to do the work for you.**

General Advice:
Mathematics is more a skill than just a body of knowledge. Practice solving as many problems as possible to develop that skill. Buy the student solutions manual and compare your work against the printed solutions.

Read the textbook with an eye to techniques for solving problems. Take notes on the formulas and theorems, and be sure to include the wording of all conditions. Reading mathematics is not always linear. Sometimes you need to look ahead at the examples and problems in order to understand the theory.

When you are working on problems, and you don't recognize the terminology, use the index in the book to locate pages on which the definitions and relevant examples may be found.

Drop and Withdrawal Policy (General University Policy 2-0206): "Dropping" means withdrawing from a specific course while "withdrawal" means withdrawing *from all courses* and leaving the University for the balance of the term. The drop and withdrawal dates are noted on the attached calendar. IT IS YOUR RESPONSIBILITY TO KNOW AND COMPLY WITH ALL DEADLINES. Reasons similar to those listed below will NOT result in approval for dropping a course after the deadline (from OSU Policy 4.03):

a. Student's lack of knowledge or misunderstanding of the deadline.
b. Student waited to get the results of an exam or other assignment.
c. Student's grades have declined since the deadline.
d. Student does not need the course for graduation.
e. Different deadlines existed at a previous school.

Incomplete Grade: The grade of "I" is given to students who satisfactorily completed the majority of the course work and whose work averages "D" or better, but who have been **unavoidably** prevented from

completing the remaining work of the course. The conditions, including appropriate time limits, for the removal of the "I" are indicated on the official class roll by the instructor. A condition that the students must repeat the course in order to remove the "I" is not permitted. The maximum time allowed for a student to remove an "I" is one calendar year.

Academic Integrity. The university has explicit rules governing academic integrity. Please consult the OSU Spring 2011 Syllabus Attachment; http://osu.okstate.edu/acadaffr/aa/PDF%20Files/sylatspr.pdf

Special Accommodations for Students: If any member of this class feels that he/she has a disability and needs special accommodations of any nature whatsoever, he/she should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services, 315 Student Union. Please advise the instructor of such disability as soon as possible, and contact Student Disability Services, to insure timely implementation of appropriate accommodations. Faculty has an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations.

☆ **Note: Any changes in this syllabus will be communicated to you in class by the instructor.**