Math 180 Calculus I Course Syllabus Spring 2010

Instructor: Andrew Koines
Time and Place:
CRN 30145 M T W R 09:35am - 10:50am Lewis Applied Science 212
CRN 31523 M T W R 11:10am - 12:25pm Lewis Applied Science 212
CRN 30397 M T W R 12:45pm - 02:00pm Science 151
Office: Tech 160D
Office Hours: Friday 8:10-12:10 p.m. Tech 160D
Text Book: *Calculus Early Transcendentals 6th Edition* by James Stewart
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Classroom Behavior

Please show up on time.
Please silence your cell phone.
Please try to refrain from coming and going from the room during the class time.
Please do not talk while the instructor is explaining a math concept.
Please do not make remarks that might be considered threatening or discriminatory.

Tests and Grading: Below is a tentative summary of the possible points in the class. The final exam is given on the last day of class. It will not be given at any other day or time.

	points
Quizzes	60
Homework	50
Chapter Tests	400
Final Exam	200
Total Points	710

The final grade in the class is determined by the following scale.

A 90-100%
B 80-89%
C 70-79%
D 60-69%
F 0-59%

We will have weekly quizzes, each counting 10 points. The dates of the quizzes and the tests will be announced in class. It is the student's responsibility to come to class to find out the test dates. If you cannot come to class, please contact another student to find out if any important announcements were made. The lowest quiz score will be replaced by the highest quiz score. Homework will be collected on the day of the chapter tests. The homework from each chapter will be worth 10 points.

Calculators: Scientific calculators will be allowed for the tests and quizzes. Graphing calculators will not be allowed.

Academic Dishonesty: If you are caught cheating on a test, you will get a zero on that test. Moreover, this test score cannot be made up. A report will be submitted to the Dean of Students.

An electronic copy of your completed exams will be made for my records.

Gifts: All gifts will be returned.

Topics Covered:

Chapter 2 Limits and Derivatives
Chapter 3 Differentiation Rules
Chapter 4 Applications of Differentiation
Chapter 5 Integrals
Chapter 6 Applications of Integration

Student Learning Outcomes: Students will be able to:

1. Calculate limits when they exist, and if the limit does not exist, explain why it does not exist.
2. Determine where a function is continuous, and explain why it is or is not continuous.

3. Determine where a function is differentiable, and explain why it is or is not differentiable.
4. Compute derivatives of polynomial, rational, algebraic, exponential, logarithmic, and trigonometric functions using the product rule, quotient rule, chain rule, and implicit differentiation.
5. Find the equation of the tangent line to a curve given at a point if it exists. If it does not exist, explain why it does not exist.
6. Compute the definite and indefinite integrals of polynomial, rational, algebraic, exponential, logarithmic, and trigonometric functions using the Fundamental Theorem of Calculus and the Substitution Method.
7. Find the area under the curve of a continuous function on a closed interval.