Syllabus: Applied Calculus I
MATH 1325.501
T 7:00-9:45
GR3.429
Fall 2005

Instructor: Dr. Titu Andreescu
Text Book: Calculus with Applications, Eight Edition, by Lial, Greenwell and Miller

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Problem Assignment:
Problems will be assigned on a regular basis. Answers to most of these problems are given at the back of the textbook. Complete solutions to many of these problems may be found in the Solutions Manual, which may be available in the bookstore. You should work several problems of each type. Working more class assignments is strongly encouraged. Do not use solutions at the back of the textbook before you have exhausted all possibilities (including asking the instructor or teaching assistant).

Course Description:
Applied Calculus I "Functions and graphs, differentiation, maxima and minima, exponential and logarithmic functions, applications of integrals." The main goal of the course is the presentation of some fundamental techniques of calculus along with some important applications. The concepts of limits, derivatives, graphing, and integration will be developed.

Chapter 2: Nonlinear Functions (sections 2.2, 2.4, 2.5, 2.6 *optional).*

Chapter 3: The Derivative (sections 3.1, 3.2, 3.3, 3.4, 3.5).

Chapter 4: Calculating the Derivative (sections. 4.1, 4.2, 4.3, 4.4, 4.5).

Chapter 5: Graphs and the Derivative (sections. 5.1, 5.2, 5.3, 5.4).

Chapter 6: Applications of the Derivative (sections 6.1, 6.2, 6.3, 6.4, 6.5, 6.6).

Chapter 7: Integration (sections. 7.1, 7.2, 7.3, 7.4, 7.5). - time permitting.

Examinations:
There will be two regular examinations and a final examination. NO MAKE-UPS. Missed exams are a zero. All examinations will be given in the regular classroom. See below for dates and the calculation of grades. Calculators will NOT be allowed, except for certain quizzes where non-graphing calculators will be permitted.

Calculation of Grade
Each quiz is worth 25 points. The lowest two quizzes will be dropped. The remaining quizzes are counted and converted to a percentage, giving a possible total of 100 points.

Each regular examination is worth 100 points.

Only the best two scores from the quiz total or the regular exams will be used in the grade calculation, giving a possible total of 200 points.

The comprehensive final examination counts as two exams, and is worth 200 points. This score cannot be dropped.

The grand total of the final score and the best two exam/quiz scores (possible total 400) is divided by four, and converted to a letter grade as follows:

[97, 100] A+
[93, 97) A
[90, 93) A-
[87, 90) B+
[83, 87) B
[80, 83) B-
[77, 80) C+
[73, 77) C
[70, 73) C-
[65, 70) D+
[60, 65) D
[55, 60) D-
[0, 55) F-

Midterm grades for Freshmen:
Midterm grades must be computed for all freshmen. This grade will be computed in the following manner:
Average of all quizzes up to this time (no drops) 50%
Average of all exams up to this time (no drops) 50%
If no exams have been taken at that time, the quiz average will be used.

Important Dates

Friday September 2: Census day - Last day to drop out without a W

Monday September 5: University Holiday (Labor Day)

Thursday September 22: WP or WF withdrawal period begins

Tuesday September 27: Exam I (subject to change)

Thursday October 20: Last day to withdraw with WP or WF

Tuesday October 25: Exam II (subject to change)

Friday November 25: University Holiday (Thanksgiving)

Tuesday November 29: Comprehensive Final also in class