

**Syllabus**  
**Applied Calculus I**  
**MATH 1325.002**  
**MWF 11:00-11:50 a.m.**  
**FN 2.106**  
**Spring 2005**

**Instructor: Dr. Paul Stanford**

**Text Book:** Calculus with Applications, Eighth Edition, by Lial, Greenwell and Miller

**Contact Information:**

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Office hours: MWF 3:00-3:45 p.m. in ECSN 3.910; MW 8:15-8:30 p.m. in FN 2.104

**Prerequisite:** Competence in basic algebra.

**Teaching Assistant:**

**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, and working more than the class assignments is strongly encouraged. Do not use the solutions at the back of the textbook before you have exhausted all possibilities (including asking the TA and the instructor). There will be a quiz in class most weeks.

**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 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.

All students are expected to take the examinations at the announced time. Missed exams are a zero. Cheating will **NOT** be tolerated. Students are required to inform the lecturer of suspected honor code violations. On all problems, you must show your work. No work, no credit (even for correct answers). In general, there will be no make up exams or quizzes. There will be no incompletes except in the direst of situations.

### **Calculation of Grade**

Each quiz is worth 25 points. The lowest two quiz scores 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. (In other words, the lowest of the three scores is dropped.) 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 best two exam/quiz scores (possible total 400) is divided by four, and converted to a letter grade as follows:

### **Grade Scale**

[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%

**Important Dates**

Monday January 10th: First class day

Monday January 17th: University Holiday

Wednesday January 26th: Census day (last day to drop w/o WF or WP)

March 7th to 12th: University Holiday

Wednesday February 9th: Exam I (subject to change)

Monday February 14th: First day to withdraw with WP or WF

Monday March 14th: Last day to withdraw with WP or WF

Wednesday March 23rd: Exam II (subject to change)

Monday April 25th: Last day of class

**Monday May 2nd: Comprehensive Final 11:00 a.m. - 1:45 p.m.**