MATH 21-120
Differential and Integral Calculus
Spring 2007 Course Syllabus

Course Description: This course is intended primarily for Business Administration and Economics majors. Topics include functions, limits, derivatives, logarithmic, exponential, and trigonometric functions, inverse functions; L'Hospital's Rule, curve sketching, Mean Value Theorem, related rates, linear and quadratic approximations, maximum-minimum problems, inverse functions, definite and indefinite integrals, and hyperbolic functions; applications of integration, integration by substitution and by parts. We will cover most of the material in Chapters 1--6.


Instructor: Weining Kang, WEH 6218, 268-8486, weikang@andrew.cmu.edu
• Lecture: MWF 12:30pm -- 1:20pm MM 103
• Office hours: M 7:00pm -- 9:00pm, W 8:00pm -- 9:00pm in WEH 6218

Teaching Assistants:
Elena Cristina Canepa, ecanepa@andrew.cmu.edu
• Office/hours: WEH 6213/TBA
• Recitation (A): TuTh 8:30am -- 9:20am DH 1212
• Recitation (B): TuTh 9:30am -- 10:20am PH 226B

Gregory E Peim, gpeim@andrew.cmu.edu
• Office/hours: WEH 6215/ TBA
• Recitation (C): TuTh 9:30am -- 10:20am BH 136A

Attendance: Lecture and recitation attendance is required. In the event that you miss a class, it is your responsibility to get the material from another student. It is absolutely vital that you read the assigned material in advance so that you may be sufficiently prepared to understand the
concepts when they presented in class and be able to ask focused questions about concepts that are not yet clear to you.

**Homework:** Homework assignments will be announced in lectures and will also be posted on the course website. They should be completed by the indicated due dates. Homework will be collected in the recitation on the due dates. **Late homework will not be accepted.** The teaching assistants have mailboxes in Wean Hall 6113. You can turn in your work there in advance of the due dates if you will be unable to attend. All assignments must include your recitation section letter and will be returned to you during recitation. These homework assignments will comprise a substantial portion of your grade and you will be expected to take them seriously and to write them up neatly. Please make every effort to complete all the assigned exercises. The assigned exercises will be used as a resource for constructing your exams.

**Exams and Quizzes:** There will be three (3) midterm exams as well as one (1) final exam. The final exam is scheduled by the University. The midterm exams are tentatively scheduled for February 12th, March 19th and April 23rd. Makeup exams will be given only for appropriately documented reasons of illness, family emergency, religious obligation, or participation in a University sponsored event. **No notes (or books) or calculators will be allowed during the exams.** There will be seven (7) quizzes. Those quizzes will be taken during the recitations. The dates of quizzes will be announced during the lectures in advance. **There will be no makeup quizzes.**

**Grading:** Your course grade will be based on the following:
- 15% Homework, 10% Quizzes, 15% Exam 1, 15% Exam 2, 15% Exam 3, 30% Final Exam.

**Academic Dishonesty:** Academic dishonesty is considered a serious offense at Carnegie Mellon University. Students caught cheating will face an administrative sanction which may include failure of the course or even expulsion from the university.