MAC 2233-001, Business Calculus, Summer B 2010
Course Information

Course Description
Linear equations and functions, mathematics of finance, differentiation and integration of algebraic functions with applications to business, finance, and economics.

Prerequisites
C (2.0) or better in MAC 1105, or C (2.0) or better in MAC 1140, or C (2.0) or better in MAC 1147, or SAT Math score of 590 or better, or ACT Math score of 26 or better, or College-Level Math CPT score of 78 or better.

General Information
Instructor: Xiang-dong Hou, associate professor of mathematics
Office: PHY 355
Office Hours: Mon. Wed. 12:00 pm – 1:00 pm, other times by appointment
Phone: 974-2561
E-mail: xhou@usf.edu
Web: [http://www.math.usf.edu/~xhou/MAC2233B10/MAC2233.htm](http://www.math.usf.edu/~xhou/MAC2233B10/MAC2233.htm)

Syllabus
Chapter 0: Sections 0.4 – 0.5
Chapter 1: Sections 1.1 – 1.6
Chapter 2: Sections 2.1 – 2.8
Chapter 3: Sections 3.1 – 3.8
Chapter 4: Sections 4.1 – 4.6
Chapter 5: Sections 5.1 – 5.5
Chapter 6: Section 6.1

Examinations
There will be four mid-term examinations but no final exam. Three of your four mid-term exams will be counted; the one with the lowest score will be dropped. All examinations are close-book and close-notebook. Calculators are allowed as long as they do not have the feature of symbolic differentiation and integration. Cell phones should be turned off during all examinations. Dates and coverage of the examinations are as follows:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1: 07/07 Wed</td>
<td>10:30 am-11:50 am</td>
<td>sections covered till then</td>
</tr>
<tr>
<td>Exam 2: 07/15 Thurs</td>
<td>10:30 am-11:50 am</td>
<td>sections covered between mid-terms 1 and 2</td>
</tr>
<tr>
<td>Exam 3: 07/27 Tues</td>
<td>10:30 am-11:50 am</td>
<td>sections covered between mid-terms 2 and 3</td>
</tr>
<tr>
<td>Exam 4: 08/05 Thurs</td>
<td>10:30 am-11:50 am</td>
<td>sections covered after mid-terms 3</td>
</tr>
</tbody>
</table>

Homework
A few problems from each section (with a few exceptions) will be collected for grading; these problems are listed at the end of this handout. The homework assignment due dates are announced in class and can also be found at the Blackboard website. Homework assignments are graded by a grader. No late homework is accepted.
**Calculation of Grade**

Each examination is graded on a grading scale. The grading scale will be determined and made available to you after each examination. Your course grade is based on the following weights:

- Mid-terms: 30% each
- Homework: 10%

More precisely, your weighted average score for the whole course is calculated using the following formula:

\[
\text{weighted average score} = \frac{\text{sum of three highest exam scores}}{300} \times 90 + \frac{\text{hw}}{\text{hw total possible}} \times 10
\]

The minimum weighted average score for a letter grade is calculated the same way. For example, the minimum weighted average score for A is

\[
\left(\frac{\text{min A of exam 1}}{100} \times 30 + \frac{\text{min A of exam 2}}{100} \times 30 + \frac{\text{min A of exam 3}}{100} \times 30 + \frac{\text{min A of exam 4}}{100} \times 30\right) \times \frac{3}{4}
\]

\[
+ \frac{\text{min A of hw}}{\text{hw total possible}} \times 10
\]

**Other Policies**

Since one of your four exams will be dropped, there are no make-up exams unless the situation is truly exceptional and supported by adequate documents. Cell phones should be turned off during all examinations. Exams 1 – 3 will be returned to you after they are graded. Do not write on or alter the graded exams in any manner. You are required to keep the exams until the end of the course. There is no attendance policy.

**Use of the Blackboard Website**

If you miss a class, you can find the homework assignment due date at the Blackboard website.

**Tutoring**

Need extra help? Contact Tutoring & Learning Services 974-2713 or LIB 206 or [www.usf.edu/learning](http://www.usf.edu/learning)