Math 1400.100 (College Math With Calculus) Fall 2006

Instructor: Husanbir Singh Pannu
Email: hsp0009@unt.edu
Office: GAB 442A
Office Hours: MW 2:00 – 4:00. If these times do not work for you, please email me for an appointment.

Course Description: An applied mathematics course designed for non-science majors. All topics are motivated by real world applications. Equations, graphs, functions; mathematics of finance; exponentials, logarithms, systems of linear equations and inequalities, linear programming; probability; basic differential calculus with applications

Recommended Text: Workbook for Math 1400 by Mary Ann Teel, Tamara Carter, Marc Grether.


Grading Policy: Your course grade will be based on homework, three midterm exams, and a comprehensive final exam:

Homeworks (15%)
Three midterm exams (20% for each exam)
Final Exam (25%)

The final exam will also take the place of the lowest exam grade, assuming the grade for the final is higher. Also, three homework grades will be dropped.

Midterm exam dates (subject to change):

Exam 1: Friday, September 30
Exam 2: Friday, November 4
Exam 3: Friday, December 2

Final exam:
The final exam will be held Friday, December 16, from 8:00 to 10:00. The final exam is comprehensive. It will be written by the department and will be the same for all sections, although there will be six versions to prevent cheating. The distribution of questions will be 30% multiple choice and 70% short answer. A review for the final will be distributed near the end of the semester.

Make-up exam policy:
In general I will not give make-up exams, although there are limited exceptions. If you cannot take the exam on the scheduled day, please notify me by email and I will let you take the exam early.

**Calculator use during exams:**
Use of graphing calculators during exams is not permitted.

**Homework grading scale:**
Not every homework assignment is worth the same number of points. Every graded homework problem is worth the same number of points; however, not all assigned problems are graded.

**Late homework policy:**
I will not accept homework after the day that it is due; I will drop two bad homeworks.

**Stapler:**
I expect your homework to be stapled. There is a stapler in the main math office GAB 435.

**Course information:**
Grades and test reviews will periodically be uploaded to Blackboard (ecampus.unt.edu). I will send out mass emails informing of such updates. As above, check your EagleConnect account to make sure you receive these updates.

**Expectations:** A fair amount of work is involved in learning calculus. You are expected to come to lecture on time. Plan ahead so you are not late. You should come to every lecture, and come prepared. It is your responsibility to obtain notes from another student if you miss class. You are expected to read the assigned sections and work on the homework problems immediately after they are assigned. You should be prepared to ask questions, take notes, and look alive in class. Please bring your text book to class and to turn your cell phone off. In addition to attending lecture, you should spend at least 6 hours per week on my course.

**Math Lab:** The Math Lab is a math tutoring service paid for by your tuition.
Website: [www.math.unt.edu/mathlab](http://www.math.unt.edu/mathlab)
The Math Lab is located in GAB 440.
Fall 2011: Thursday, September 1 – Friday, December 9, 2011 (Not open during the first week of classes or during finals week)
Weekly hours:
Monday - Thursday: 7:00 am – 8:00 pm
University Deadlines: Students are responsible for meeting all university deadlines (registration, fee payment, prerequisite verification, drop deadlines, etc.) More information is available at http://essc.unt.edu/registrar/schedule/fall/calendar.html.

Student Honesty: It is always O.K. to work together on homework. It is never acceptable to cheat on exams. Students caught cheating on exams will receive no credit for the test and possibly receive an “F” for the course. I would ask anyone caught cheating to withdraw from our class.

Disabilities: It is the responsibility of students with certified disabilities to provide the instructor with appropriate documentation from the Dean of Students Office.

Student Evaluation of Teaching Effectiveness: The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught.

Syllabus changes: Any changes to this syllabus will be announced both in class and via EagleConnect.

Sections to be covered from the book:

<table>
<thead>
<tr>
<th>CHAPTER</th>
<th>SECTIONS</th>
<th>CONTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 2</td>
<td>2-1, 1-1 &amp; 1-2, 2-3</td>
<td>Quick Review. Assign as independent work.</td>
</tr>
<tr>
<td>10</td>
<td>The Derivative 10-1 – 10-3 (optional), 10-4, 10-5, 10-7</td>
<td>Section 1 – 3(limits) can be omitted.</td>
</tr>
<tr>
<td>11</td>
<td>11-3, 11-4</td>
<td>Select only problems that do not contain exponential or logarithmic functions</td>
</tr>
<tr>
<td>Chapter</td>
<td>Subject</td>
<td>Problems</td>
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<tr>
<td>12</td>
<td>Graphing and Optimization</td>
<td>12-1, 12-2, 12-5, 12-6</td>
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<tr>
<td>3, 11</td>
<td>Mathematics of Finance</td>
<td>3-1, 3-2, 11-1, 3-3, 3-4</td>
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</table>
| 7, 8    | Probability                                  | 7-2, 7-3, 7-4, 8-1, 8-2, 8-3, 8-5, 8-7 | 7-2 is a basic introduction to sets.  
7-3, 7-4 deals with counting methods. |
| 5, 6    | Linear Inequalities and Linear Programming    | 5-1, 5-2, 5-3, 6-1, 6-2 | 5-1, 5-2, 5-3 instructor should teach Gauss-Jordan elimination using a graphing calculator.  
5-2 instructor should emphasize set up of Simplex Tableau. Use software to solve. |
| 4       | Systems of Linear Equations                  | 4-1, 4-2, 4-3, 4-4. 4-5, 4-6, 4-7 | This chapter is optional.  Cover content as time permits.            |