MthSc 102 | Introduction to Mathematical Analysis | Fall 2006

Required Materials: *Calculus Concepts: An Informal Approach to the Mathematics of Change*, Third Edition (Chapters 1-11) by LaTorre, Kenelly, Fetta, Harris, and Carpenter. Chapter 1-5 will be covered in MthSc 102 and Chapters 6,7,9 and 10 will be covered in MthSc 207.

TI-83+ or TI-84+ calculator (TI-83 or TI-84 are also ok). The calculator will be used extensively in this course, and you will be expected to use it in class daily, on assignments, quizzes and tests. [TI-89, TI-92 and similar calculators with symbolic algebra systems are not permitted].

A see-through ruler.


Prerequisite: MthSc 104, MthSc 199, a 2 on the CMPT, or transfer credit for a college math course. Credit can not be given for MthSc 102 if the student has credit for MthSc 106.

Course Objectives: To develop a conceptual understanding of calculus concepts through the study of rates of change and their interpretations in non-technical settings using a data-driven approach, to provide an opportunity to work cooperatively with other students in the course, and to use technology for modeling discrete data and understanding mathematical connections.

Course Regulations: [http://virtual.clemson.edu/groups/ugs/CUGS/](http://virtual.clemson.edu/groups/ugs/CUGS/)

Please read the regulations concerning undergraduate course regulations including information on Academic Integrity, Class Attendance, Midterm Grades, Final Exams and Posting of Grades.

Course Website: [http://virtual.clemson.edu/mathsci/business_calculus/](http://virtual.clemson.edu/mathsci/business_calculus/)

You will access the course website for worksheet solutions, section objectives, past tests and solutions and other resources throughout the semester.

Section Mgmt System: You are responsible for any materials or messages posted on Blackboard (bb.clemson.edu). You will access your instructor’s blackboard page for course worksheets, section objectives, grade updates, and other resources that your instructor posts throughout the semester.

Homework: Problem solving is an essential part of this course. A list of suggested problems from the text is available on the website. A worksheet for each section is posted on Blackboard. Solutions to the worksheets will be posted in a timely manner on the course website. Tests questions are often similar to the worksheets and textbook questions, so both study aides should be used. See the Daily Grade section regarding the grading of homework assignments.

Tests: There will be three tests given at 6:30 pm on 9/20/06, 10/25/06, and 11/29/06. Ninety minutes will be allotted for each test. Each test will be closed book and closed notes.

An absence from a test will result in a grade of zero. There will be no makeup tests given. In general, the grade on the final exam will replace the zero on a single missed test. See the section on grading for more information.

You will probably test in a room different from the room in which your section meets for class. The location of the test sites will be announced in class and available on the course website before each exam.
Accommodations: If you have a letter stating specific testing accommodations to which you are entitled, please turn in a copy of your letter from the University to your instructor at least one week before the test. Even if you do not anticipate using any accommodations, it is a good idea to turn in the letter as soon as possible.

Daily Grade: The daily grade will count for 15% of your course grade. See the section on grading for more information.

These assignments may be quizzes (announced or unannounced), assigned worksheets, textbook problems, etc.

Late work is not accepted for credit unless specific arrangements have been made with your instructor. No make-ups will be given on quizzes. At the end of the semester, the lowest scores on 10% of these grades will be dropped before the final grade is computed.

Your instructor will provide specific information on what will be included in the daily grade.

Attendance: Attendance will be taken on a daily basis. If you are absent due to a University sanctioned activity (athletic travel, field trip, etc.), provide documentation to your instructor in a timely manner.

MWF sections: Students who are absent 7 or more times may be dropped from the course.

MW sections: Students who are absent 5 or more times may be dropped from the course.

If your instructor does not show up for class, quietly wait 15 minutes before leaving. Please call 656-5224 to report this should it happen.

Final Exam: The MthSc 102 final exam must be taken at 6:30 pm on Thursday, December 14, 2006. No rescheduling of the final exam will be permitted to accommodate travel arrangements. Your instructor will announce the location of the exam and it will be posted on the course website. There will be no exemptions for the final exam. Students who are taking ExSt 301 will have an exam conflict. These students will be contacted in early December with options for resolving the conflict.

Grading: At the end of the semester, the final grades will be compiled using the more favorable of the two methods shown below:

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Method I</th>
<th>Method II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Grade: Homework, Quizzes, etc.</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td>3 Tests @ 20% each</td>
<td>60%</td>
<td>40%</td>
</tr>
<tr>
<td>The 2 Best of the 3 Tests @ 20% each</td>
<td>25%</td>
<td>45%</td>
</tr>
<tr>
<td>Final Exam</td>
<td></td>
<td>100%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
<td><strong>100%</strong></td>
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In order to earn a passing grade a student MUST
1) have a final course average of 60% or better (including the daily grade)
   AND
2) meet at least ONE of the following criteria:
   • have at least a 60% weighted test & exam average (excluding daily grades)
   • have a final exam score of 60% or better

Grades will be assigned on a 10-point scale (90% = A, 80% = B, etc.)

Course Coordinator: Jennifer LaVare, Martin O-319, jennifL@clemson.edu, 656-6405