Text:
CALCULUS for Business, Economics, Life Sciences, & Social Sciences-

Student Audience:
This course is designed specifically for students in business and the social sciences and
does not count toward a major or minor in mathematics.

Prerequisite:
Successful completion (C or better grade) in Math 116, College Algebra, or satisfactory
score on the Mathematics placement exam.

Course Description:
Math 190 emphasizes application of the basic concepts of calculus rather than proofs.
Topics include curve sketching and recognition of curves, techniques of differentiation
applied to polynomial, rational, exponential, and logarithmic functions, maxima and
minima of a function of one or more variables, partial derivatives, LaGrange multipliers,
and elementary techniques of integration. Application to the worlds of business and social
science will be stressed throughout the course.

Applicable toward graduation where program structure permits.

- Certificate or degree: All certificates and all degrees.
- Group requirement: Mathematics
- Area of Concentration: Not applicable.

Method of Evaluation:
There will be eight exams (each 100 pts.), a comprehensive final
exam (200 pts.), and unannounced quizzes (each 10 pts.). The
course grade of the student will be based on the average of the
student as follows.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 ≤ ave</td>
</tr>
<tr>
<td>B</td>
<td>80 ≤ ave &lt; 90</td>
</tr>
<tr>
<td>C</td>
<td>70 ≤ ave &lt; 80</td>
</tr>
<tr>
<td>D</td>
<td>60 ≤ ave &lt; 70</td>
</tr>
<tr>
<td>F</td>
<td>ave &lt; 60</td>
</tr>
</tbody>
</table>

Office Hours:
10:00 - 10:50 ⇒ M, T, W, Th, F.
Drop-in visits are welcomed.
Remarks:

a. Students can use technology for most of the sections.
b. The student solutions manual is available in the bookstore. (Not required.)
c. The successful completion of the course requires doing at least the exercises at the end of each section that I assign.
d. Students with an average of more than 95% at the end of the semester will not have to take the final exam.
e. Attendance will be checked.
f. Students with a grade of F on the first exam should make an appointment with me.
g. Students with a grade of F at the mid-term exam with irregular attendance will be dropped administratively.
h. No make-up quizzes.
i. If a student does not take a test on the scheduled date, I will replace the missing test with half of the score on the final exam.
j. None of the exams will be dropped.
k. The course grade will be based only on the quizzes, the one-hour exams, the final exam, and the attendance.
l. Students are fully responsible for knowledge of and compliance with all announcements made in class, whether present or not.
m. I would like for you to have a binding notebook.
n. Attendance is very important. For every 4 hours missed the grade will be lowered one letter grade. Being late twice is equivalent to being absent one period.
o. I appreciate any comments or reasonable suggestions throughout the semester.

NOTE: After every exam students have at most a week to discuss the exam’s grade, look at, or copy the key. I will not provide the key or discuss an exam’s grade a week after an exam is taken.

TENTATIVE SCHEDULE (Fall 2006):
I would like to cover one section per day (if possible). The following table is the tentative schedule for the exams and number of days we should spend on each chapter.

<table>
<thead>
<tr>
<th>Chapter</th>
<th># of Sec</th>
<th>Hrs</th>
<th>Exam</th>
<th>date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 &amp; 2</td>
<td>7</td>
<td>9</td>
<td>1</td>
<td>9/5</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>9</td>
<td>2</td>
<td>9/21</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>7</td>
<td>3</td>
<td>10/2</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>8</td>
<td>4</td>
<td>10/17</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
<td>7</td>
<td>5</td>
<td>10/30</td>
</tr>
<tr>
<td>7</td>
<td>4</td>
<td>6</td>
<td>6</td>
<td>11/9</td>
</tr>
<tr>
<td>8</td>
<td>6</td>
<td>8</td>
<td>7</td>
<td>11/28</td>
</tr>
<tr>
<td>9</td>
<td>3</td>
<td>5</td>
<td>8</td>
<td>12/6</td>
</tr>
</tbody>
</table>

Final Exam will be announced.

Have a great and enjoyable semester.