Instructor: Larry Leemis  
Office: Jones 124 (Phone: 221-2034)  
Office hours: Monday, Tuesday and Thursday 2:00 - 3:00

Purpose:  
A student completing this course should understand the concepts and applications of derivatives and integrals. The first five chapters in the textbook will be covered. The computational algebra language Maple will be used for computational and graphics support.

Prerequisites:  
Students should have a working knowledge of algebra, trigonometry and analytic geometry.

Text:  

Grades:  
Course grades will be determined by these weights:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Homework/Quizzes</td>
<td>25%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>10%</td>
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<tr>
<td>Exam 2</td>
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<tr>
<td>Exam 3</td>
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<tr>
<td>Exam 4</td>
<td>10%</td>
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<tr>
<td>Final exam</td>
<td>35%</td>
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The final exam is on Friday, December 10 from 8:30-11:30 AM (location TBA). The grading scale for the course will be:

- 90 - 100 %: A
- 80 - 90 %: B
- 70 - 80 %: C
- 60 - 70 %: D
- 0 - 60 %: F

Homework:  
A homework set will be assigned every Tuesday and Thursday. The homework set is due at the beginning of the next class period. The lowest two homework/quiz grades of the semester will be dropped.

Course outline:  
1. Functions  
2. Derivatives  
3. Integrals  
4. Differentiation short-cuts  
5. Applications of the derivative