**Course Description:** Four Credits. Prerequisite: CSE123C, MATH210Q, MATH211Q. An introduction to the numerical algorithms fundamental to scientific computation. Equation solving, function approximation, integration, difference and differential equations, special computer techniques. Emphasis is placed on efficient use of computers to optimize speed and accuracy in numerical computations. Extensive digital computer usage for algorithm verification.

**Instructor:**
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**Text:** *Numerical Methods for Engineers*, S. C. Chapra and R. P. Canale

**Grading Policy:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Midterm exams</td>
<td>40%</td>
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<tr>
<td>Final exam</td>
<td>20%</td>
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<tr>
<td>Homeworks &amp; Labs</td>
<td>40%</td>
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</tbody>
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Two midterms tentatively scheduled for September 30th and November 4th. There will be 7-8 lab/homework assignments.

**Rules:**

Participation in class discussion is strongly encouraged.
Homework is due at the beginning of class on the due date. No extensions.