Mathematics of Physics and Engineering II
MATH 445

Text: Advanced Engineering Mathematics, 10th Ed.

This is a course that introduces topics that are useful in various Engineering and Physics courses as well as Applied Mathematics courses.
Topics will include Vector field theory: theorems of Gauss, Green and Stokes; Fourier series and integrals; complex variables; linear partial differential equations; series solutions of ordinary differential equations.

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Course web page: http://www-bcf.usc.edu/~rsacker/M445.html

Teaching Assistant: See “Course Web page” above.
Office Hours: Math Center-KAP 263, See “Course Web page” above.

GRADING POLICY

2 Midterm exams – 40% of grade
Quizzes after deleting the 3 lowest scores – 30%
Final – 30%
## Approximate Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Sections covered</th>
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<tbody>
<tr>
<td>1</td>
<td>Chap. 13, Sec. 1-2</td>
</tr>
<tr>
<td>2</td>
<td>Chap. 13, Sec. 3-4</td>
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<tr>
<td>3</td>
<td>Chap. 13, Sec. 5-7</td>
</tr>
<tr>
<td>4</td>
<td>Chap. 11, Sec. 1, 2</td>
</tr>
<tr>
<td>5</td>
<td>Chap. 11, Sec. 4, 7, 9</td>
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<tr>
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<td>Chap. 5, Sec. 1-2</td>
</tr>
<tr>
<td>7</td>
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<tr>
<td>8</td>
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<td>Chap. 9, Sec. 7-9;</td>
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<tr>
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<td>Chap. 10, Sec. 7-9</td>
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**Problem Assignments (These may vary)**
Additional problems will be given in class, some for credit and some not.

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The homework is automatically assigned and should be attempted as soon as the pertinent section is covered in the lecture. If you have questions regarding the homework you are encouraged to consult the Instructor.

The homework will not be collected except, of course, for extra credit problems assigned in class.