MATH 291 Winter 2008-09
Complex and Vector Analysis for Engineers

Instructor: Dr. Georgi Medvedev
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Lectures: TR 11am-12:20pm, Randell Hall 121
Recitations (MATH291-001): F 11am-11:50am, Matheson Hall 411
Recitations (MATH291-002): F 1:00pm-1:50pm, Randell Hall 114
Office hours: T2-3 and F2-3; or by appointment
Course webpage: www.math.drexel.edu/~medvedev/classes/2008/math291/


The following volumes by M.R. Spiegel from the Schaum’s Outlines series contain a large number of worked and practice problems and are recommended as supplements to the required textbook by Kreyszig: Vector Analysis and an Introduction to Tensor Analysis; Complex Variables.

Content: The course will cover Chapters 8, 9, 12, 13 and if time permits Chapter 15.

Homework: The homework problems will be posted on the course website after every lecture. All homework problems should be attempted. If you are not able to complete a homework problem or are unsure about your solution, please ask your recitation instructor for help with this problem. You can also receive help by seeing me during my office hours or by visiting the Mathematics Resource Center (Korman 247, for hours please see http://www.drexel.edu/coas/math/resourcecenter/).

Quizzes: Short quizzes may be given during recitations. Each quiz will typically contain one or two problems from the homework assigned during the previous week. I will drop the lowest quiz score, so you may miss one quiz per course practically without penalty. There will be no make-up quizzes.

Examinations: There will be two midterm and one final examinations. The dates will be announced in advance. Note that no calculators will be permitted on tests so you should not come depend on them while doing your homework. Make-up exams are offered only under extraordinary circumstances (documented in writing), and only if approved by the instructor before the scheduled test, and always during the final exam period at the end of the term.

Assessment: Your final grade will be based on your performance on quizzes (10%), midterm 1 (25%), midterm 2 (25%) and final exam (40%).

The following table is to help you to decide on your standing during this course:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Score</th>
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<tbody>
<tr>
<td>A</td>
<td>87 − 100</td>
</tr>
<tr>
<td>B</td>
<td>75 − 86</td>
</tr>
<tr>
<td>C</td>
<td>63 − 74</td>
</tr>
<tr>
<td>D</td>
<td>51 − 62</td>
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</tbody>
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Students earning points within the above bounds are assured of a final grade at least as indicated above. Curve points may be added at the instructor’s discretion. Although curve points may not be determined until the end of the term, everyone should have a good idea of one’s standing by the above breakdown. Please feel free to ask me, if you are feeling uncertain about your standing in the class.

**Problem resolution:** Please come to see me during my office hours if you have any course related problems. If you would like to make an appointment to see me at some other time please send me an email with your time constraints and preferences.