METHODS OF APPLIED MATHEMATICS II
SPRING 2012

Instructor: Professor Eugene Speer
Hill Center 520, 732–445–2390, Extension 1313
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Office hours: Tuesday 3:20–4:40 PM, Hill Center 520
Thursday 10:20–11:40 AM, Hill Center 520
Or by appointment or chance in Hill 520

General: This is the second semester of a graduate sequence oriented primarily toward
students in mechanical and aerospace engineering. Approximately the first ten weeks of
the course will be devoted to the theory of complex variables, and with the remainder
treating the calculus of variations.

Texts: • For complex variables: Greenberg, Michael, D., Advanced Engineering Mathe-
• For the calculus of variations: Weinstock, Robert, Calculus of Variations, with

Homework: Homework problems will be assigned weekly through postings on the web
page. Assignments will normally be due on Tuesdays; the first assignment will be due
Tuesday, January 24.

Academic integrity: You are strongly encouraged to discuss homework problems with
me or with other students. On the other hand, after you have finished discussing a problem,
you must write your solution independently, not in concert with others. If you consult any
source (such as a web page, solutions from a previous semester, etc.) in the preparation of
homework, you must acknowledge this by citing that source; moreover, the work you turn
in must be written up in your own words, not copied from a source. Failure to observe
these restrictions will be treated as a violation of the Rutgers Academic Integrity Policy.

Exams: There will be two in-class exams, tentatively scheduled for Thursday, February
23 and Tuesday, April 10. The final exam will be scheduled later in the semester. Make-
up exams will be given only in the case of well-documented illness or major emergency or
(only with permission in advance) of a major outside commitment.

Grading: Grading will be based on a weighted average of homework and exams:

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<tr>
<th>Component</th>
<th>Weightage</th>
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<tbody>
<tr>
<td>Homework</td>
<td>20%</td>
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<tr>
<td>Class exams</td>
<td>20% each</td>
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<tr>
<td>Final exam</td>
<td>40%</td>
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