METHODS OF APPLIED MATHEMATICS II  
SPRING 2013

Instructor: Professor Eugene Speer  
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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.

  
• For the calculus of variations: Weinstock, Robert, Calculus of Variations, with Applications to Physics & Engineering. New York, Dover, 1974.

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 29.

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 28 and Tuesday, April 16. 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:

  Homework .......................... 20%  
  Class exams  ............. 20% each  ... 40%  
  Final exam  ...................... 40%