MATH 267 (Differential Equations and Transforms) Syllabus Fall 2011;
Sections A2 and B1

Time and Location
Section A2: CARVER 0160, MTRF 10:00-10:50 AM
Section B1: CARVER 0190, MTRF 12:10-1:00 PM

Instructor: Domenico D’Alessandro
Department of Mathematics
440 Carver Hall
e-mail: daless@iastate.edu
http://www.public.iastate.edu/daless/ (Web page where to find communications
for the course and/or course material)
Office Hours: MTR 11:00-12:00 noon in Carver 440.

Textbook: Elementary Differential Equations and Boundary Value Problems (9th

Course Content:

• PART I: First Order Differential Equations and Applications. Existence and
  Uniqueness Theorem: Chapter 2.
• PART II: Second and Higher Order Linear Equations: Chapters 3 and 4.
• PART III: Laplace Transform based Solutions of Differential Equations. Review
  of Linear Algebra (Chapter 6 and Sections 7.1-7.3)
• PART IV: Systems of Differential Equations. Euler numerical method (Sections
  7.4-7.9 and Sections 8.1-8.2)

Hour Exams There will be four one hour exams, in class, during regular hours.
Each exam will cover one of the four parts of the course except the fourth exam which
will be on most but not all of PART IV.

Homework: Assigned roughly every week. A typical homework assignment con-
sists of 1) A suggested reading highlighting the parts of the book that have been covered
in class (and the parts that can be skipped) 2) Some suggested problems for which the
answers can be found in the book. 3) Problems for which the solution is not in the
book. These problems will have to be handed in on the due date and will be graded.
The solutions will be discussed in class.

You are allowed to form teams to do the homework and to hand in one homework
for each team. Team must consist of no more than 4 people. Teams must be formed
within the first four homework assignments. Once you have joined a team you are
allowed to hand in the homework only with the persons of that team, some of them, or
by yourself in the following weeks. You cannot join another team or re-joined a team
you have left.

Final Exam: As scheduled.
Grade: 20/100 HWK, 55/100 Hour exams, 25/100 Final, 2/100 extra credit for in class attendance and participation. (Lowest Two Homework scores will be dropped), Calculators are allowed during tests and Final exam. Late Homework will not be accepted.

Make up exams rules: A make up exam session will be scheduled before the final exam. If you cannot attend one of the hour in class exams you may request to participate in this session and take the exam there after appropriate justification. There will be no penalty for one exam but there will be penalty of 20% for 2 exams, 40% for 3 exams and 60% for four exams.