

**MATH 267 (Elementary Differential Equations and Laplace
Transforms) Syllabus Spring 2005; Sections A3-C1**

Location and Time : Section A3 (CARVER 0174, MTRF 9 A.M.),
Section C-1 (CARVER 0184, MTRF 12.10 P.M.)

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 communica-
tions for the course and/or course material)

Office Hours: MTRF 10-11 (in Carver 440).

Textbook: Differential Equations with Boundary Value Problems, by J. Polking,
A. Boggess and D. Arnold.

Course Content:

- PART I: First Order Differential Equations and Applications: Chapters 2 and 3.
- PART II: Second Order Differential Equations and Applications: Chapter 4.
- PART III: Laplace Transforms and Series Solutions of Differential Equations. (Chapters 5 and 11(First two Sections))
- PART IV: Systems of Differential Equations. (Chapters 7, 8 and 9)

Hour Exams There will be four one hour exams, in class, during regular hours. Each exam will cover one of the 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 consists 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 soolution 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 and must be the same throughout the semester. You are allowed to leave a team during the semester but you cannot join another team.

Final Exam: As scheduled. Final Exam will not be cumulative but will consist of selected topics (roughly half of the course) which will be announced

about two weeks before the end of the course. These will include the last part of the course.

Grade: 20/100 HWK, 55/100 Hour exams, 25/100 Final, (Lowest Hour Exam score and Lowest Two Homework scores will be dropped), Calculators are allowed during tests and Final exam. Late Homework will not be accepted. No Make up exams. Special arrangements can be considered only for the final exam. Please contact the instructor in due time.