

MA 507 APPLICABLE MATHEMATICS I Spring 2004

MW 6:00-7:15 p.m. ILB 370

Instructor: Dr. Victoria Sadovskaya. You may call me Victoria.
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Office phone: 460-6264 ext. 2622
Office hours: MW 2:20-3:20 p.m., F 12:15-1:15 p.m., and by appointment
Course homepage: www.southalabama.edu/mathstat/personal_pages/sadovska/507/507.html

Prerequisites. An undergraduate course in differential equations.

Text. *Advanced Engineering Mathematics* by Michael Greenberg (second edition).

Objectives. This course gives a graduate-level introduction to ordinary differential equations and their applications.

Coverage. We will concentrate on Chapters 1-5, 7, and 17 of the text. The topics include ordinary differential equations of first order, linear differential equations of higher order, power series solutions, Laplace transform, phase plane and nonlinear differential equations, Fourier series.

Attendance policy. Regular attendance and participation are expected.

Exams. There will be two in-class exams and a two-hour final exam. The final will be cumulative, but the material covered after the second exam will be emphasized.

Exam 1:	Wednesday, February 18.
Exam 2:	Wednesday, March 31.
Final Exam:	Wednesday, May 5, 6-8 p.m.

All students must plan to take exams at the scheduled times. There will be no make-up exams. If you miss a midterm exam for *unavoidable reasons*, such as illness or a family emergency, the midterm score will be replaced by $2/3$ of the final exam score. Otherwise, the score for the missed test will be zero.

Homework. A homework assignment will be given each Wednesday, it will be due the following Wednesday. *No late homework will be accepted.* The solutions should be neatly and clearly written.

Final grade computation. Your final score will be calculated as follows:

Homework:	30%
Exam 1:	20%
Exam 2:	20%
Final Exam:	30%

Your letter grade will be determined according to the following scale:

A :	at least 89%
B :	at least 75%
C :	at least 60%
D :	at least 50%
F :	below 50%

Notification of course grades. Final grades will be available on PAWS. Do not call the mathematics department to ask about your grade. I will not give grades over the phone or email.

Dropping. The final drop date is April 9. Please speak to me if you are getting behind. Also talk to me before making a final decision to drop.

Disclaimer. The requirements and the policies may be modified as circumstances dictate. Such changes will be provided to the students in class and in writing.

Academic accommodations. If you have a specific disability that qualifies you for academic accommodations, please notify me and provide certification from the Office of Special Student Services. This office is directed by Ms. Bernita Pulmas and is located in the Student Center, Room 270, Phone 460-7212.