

The University of Southern Mississippi
College of Science and Technology
Department of Mathematics

Introduction to Differential Equations I
MAT 285 SYLLABUS
Fall 2004

Dr. Sungwook Lee

Office Hours: By appointment

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Course Website: <http://ocean.otr.usm.edu/~w371293/mat285/>

Text: *Elementary Differential Equations and Boundary Value Problems*, William E. Boyce and Richard C. DiPrima, 8th Ed., Wiley. This textbook is available at our campus bookstore.

Prerequisites: MAT 280 Multivariable Calculus and MAT 326 Linear Algebra (recommended).

Topics: The main topics include First-Order Differential Equations, First-Order Systems, Linear Systems, Forcing and Resonance, Laplace Transforms.

Grading: There will be three exams whose total counts 70%. The final exam is comprehensive and counts 30%. Please make sure that under any circumstances there will be absolutely **NO MAKE-UP EXAMS**. However, if, for some reason, you will have to miss any exam (any midterms or final), you must notify me at least one week in advance, in order to reschedule the exam date or in order for you to take exam earlier. The final grade will be determined mainly based upon the total points earned on the examinations. Also make sure that there is no provision for doing extra or outside work to improve your grade.

A = 90.0% to 100%

B = 80.0% to 89.9%

C = 70.0% to 79.9%

D = 60.0% to 69.9%

F < 60.0%

Course Outline: You will find weekly course schedule, homework assignments, and important notices regarding exams at the website <http://ocean.otr.usm.edu/~w371293/mat285/outline.html>.

Course Objectives: The main purpose of this course is to study how to model natural phenomena in terms of differential equations and how to analyze their solutions and to solve the equations analytically or numerically.

Disabilities Statement:

If student has a disability that qualifies under the American with Disabilities Act (ADA) and requires accommodations, he/she should contact the Office for Disability Accommodations (ODA) for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact ODA if they are not certain whether a medical condition/disability qualifies.

Address:

The University of Southern Mississippi
Office for Disability Accommodations
118 College Drive #8586
Hattiesburg, MS 39406-0001

Voice Telephone: (601) 266-5024 or (228) 214-3232 **Fax:** (601) 266-6035

Individuals with hearing impairments can contact ODA using the *Mississippi Relay Service* at 1-800-582-2233 (TTY) or email Suzy Hebert at Suzanne.Hebert@usm.edu

Academic Honesty Statement:

Students are expected to adhere to the highest standards of academic honesty as outlined in the USM Student Handbook. Any information that is copied from another source must be noted as such in student materials. Page number or internet reference must appear in the text and full bibliographic reference must appear in the reference section of the paper/assignment. Other forms of academic dishonesty include, but are not limited to buying papers, copying paragraphs/pages of text/whole papers off the Internet, copying another student's answers, etc. Academic dishonesty will result in the grade of "0" on the assignment and/or in the course and/or the student may be reported the Vice President for Academic Affairs for further action.