

STUDENT SYLLABUS

MAP 2302-01

Summer 05

WEB PAGE: <http://www.math.fsu.edu/~bellenot/class/su05/ode>

MEETING TIMES: MTWRF 2:00-3:20 102 LOV

INSTRUCTOR Dr Steven Bellenot

OFFICE 002-B Love ('B' for Bellenot in the Basement)

OFFICE HOURS MTWR 1:00-1:45

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ELIGIBILITY. MAC2312 (Calculus 2) with C- or better. The course is not open to students with credit for MAP 3305 Engineering Math I.

TEXT. Boyce and DiPrima, *Elementary Differential Equations*, 8th Edition, Wiley, 2004.

CALCULATOR. The TI-89 graphing calculator is highly recommended as it will solve ODE's both symbolically and graphically.

COURSE OBJECTIVES. The purpose of this course is to introduce students to the ideas and techniques for solving ordinary differential equations. We will emphasize both computational methods and conceptual understanding.

Our goal is to cover substantial portions of the text, exposing the students to methods and equations that arise commonly in scientific applications. This includes first order equations (Chapter 2), linear ODE's, especially second order (Chapter 3) and the general solution methods of the Laplace transforms (Chapter 6) and the method of power series (Chapter 5). At same time we will do a sequence of technology enhanced numerical experiments which we will call labs.

ATTENDANCE. Attendance and class participation will be factors in determining the final grade. No food or drinks are allowed in the classroom. Please turn off cell phones and keep them hidden during class.

GRADING. Grading is based on the usual 90% A, 80% B, 70% C, 60% D system. There will be 3 (50 minute) mini-tests (each worth 25% of the final grade) and 5 labs (each worth 3% of the final grade). The last 10% of your grade will be based on homework.

Mini-Test Dates: May 20, Jun 3, Jun 17

EXAM POLICY. No makeup tests will be given. A missed test may be excused if the student presents sufficient evidence of acceptable extenuating circumstances. The next test grade will be used for the missing grade, or at the instructor's option, a substitute oral test will be given. Students must bring FSU ID cards to all tests.

LABS. These are numerical experiments that require technology to complete. These require a nice write up of both your results and how you obtained them. Neatness and presentation count.

HOMEWORK. The remaining 10% of your grade will be determined by homework. The list of homework problems (and their statements) for the semester is on the class web site. On some days students will present the problems and other days the assignments will be collected at the beginning of class. Most problems will not be graded directly. Please neatly organize your completed assignments into a notebook and bring them for inspection on test days. Late homework is not accepted. Come to class to find out if the next assignment is collected or presented.

LAB and HOMEWORK RULES. Your **OWN** work, written in clear English. Neatly typed or written in ink on one side of standard 8.5 by 11 paper. Multiple pages must be stapled and **NOT** dog-eared or paper clipped. Discussion about the homework problems with other students or the professor is permissible and even encouraged, but the final output needs to be uniquely yours and not obtained by copying from another's solution.

There is more on the other side

HONOR CODE. The Academic Honor System of The Florida State University is based on the premise that each student has the responsibility 1) to uphold the highest standards of academic integrity in the student's own work, 2) to refuse to tolerate violations of academic integrity in the University community, and 3) to foster a high sense of integrity and social responsibility on the part of the University community. Please note that violations of this Academic Honor System will not be tolerated in this class. Specifically, incidents of plagiarism of any type or referring to any unauthorized material during examinations will be rigorously pursued by this instructor. Before submitting any work for this class, please read the "Academic Honor System" in its entirety (as found in the FSU General Bulletin and in the FSU Student Handbook (see URL below)) and ask the instructor to clarify any of its expectations that you do not understand.

<http://www.fsu.edu/Books/Student-Handbook/codes/honor.html>

AMERICAN DISABILITIES ACT. Students with disabilities needing academic accommodations should: 1) register with and provide documentation to the Student Disability Resource Center (SDRC); 2) bring a letter to the instructor from SDRC indicating you need academic accommodations. This should be done within the first week of class.

<http://www.fsu.edu/%7Estaffair/dean/StudentDisability/>