

THE UNIVERSITY OF TEXAS AT EL PASO
COLLEGE OF SCIENCE
DEPARTMENT OF MATHEMATICAL SCIENCES

Course #: 2326
Course Title: Differential Equations
Credit Hrs: 3
Term: Spring 2010
Course Meetings & Location: TTh 12:00-1:20 PM in PSYC 307
Prerequisite Courses: Math 1312
Course Fee: (if applicable)

Instructor: M. A. Khamsi
Office Location: Bell Hall 328
Contact Info: 747-6763 Phone #
Mohamed@utep.edu E-mail address
747-6502 Fax #
747-6750 Emergency Contact

Office Hrs: TTh 10:30 to 12:00, and by appointment.
Textbook(s), Materials: Required: Differential Equations, Third Edition, by Blanchard,
Devaney and Hall, PWS Boston
Suggested:

Course Objectives
(Learning Outcomes):

- During the course you should expect that you make considerable progress in the following areas:
 1. Apply standard techniques to analyze and solve ordinary differential equations: using analytical, numerical and qualitative methods; using the method of the Laplace transform.
 2. Be able to model with differential equations and interpret the results of their mathematical analysis.
 3. Understand the fundamental difference between linear and non-linear differential equations.
 4. Improve your ability to communicate Mathematics effectively in written form.

Course
Activities/Assignments: There will be homework, grades from quizzes, three midterms, and the final exam.
Assessment of Course Objectives:
Grading Policy: The in class quizzes, homework, and midterms count 50% and the final exam count for 50% towards your overall class average.
Make-up Policy: Make-up tests will only be given under extraordinary circumstances and only if you notify the instructor prior to the exam date.
Content: The course will cover Chapters 1, 2, 3, 4, 5 and 6 of the textbook.

- Fair Warning:** It is expected that you spend an absolute minimum of two hours outside of class for every in-class hour on solving homework problems, reading the textbook and reviewing your class notes. If you do not have the time necessary, you should take the course some other semester. The course's approach to differential equations is intended to be different. If you have had a calculus course already you will probably find much that is unfamiliar and a very different emphasis on things you may think you know already. Be alert to this and remember that previous experience is unlikely to be enough to coast on. Treat each topic as if you were meeting it for the first time, and be alert to make sure you understand each day's material before the next class meeting.
- Attendance Policy:** It is a must you attend all lectures. Unjustified absences will result in points taken from the Part average.
- Academic Integrity Policy:** For more on this, please refer to UTEP's policy cited in:
<http://academics.utep.edu/Default.aspx?tabid=23785>
- Civility Statement:** As a general rule, anything that will disturb other students will not be admitted.
- Disability Statement:** If a student has or suspects he/she has a disability and needs an accommodation, he/she should contact the Disabled Student Services Office (DSSO) at 747-5148 or at dss@utep.edu or go to Room 106 Union East Building. The student is responsible for presenting to the instructor any DSS accommodation letters and instructions.
- Military Statement:** If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact the instructor as soon as possible.
- Course Schedule:** The final exam is comprehensive and will be held Tuesday May 11 from 1 PM to 3:45. The class schedule lists **Friday, April 2** as the last day to drop with an automatic "W". The instructor will NOT assign a "W" for students dropping the course after the deadline.