MATH 2306 / Differential Equations Spring 2013
Instructor: Dr. Dhruba Adhikari
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Office: D-153

Classroom and Time
D-126/Section 001 MWF 8:00-8:50AM
D-126/Section 002 MWF 9:00-9:50AM
D-220/Section 003 MWF 11:00-11:50AM

Prerequisite: Calculus II (MATH 2254)

Office Hours: MWF 9:50AM-10:30AM, TR 9:45AM-11:15AM or, by appointment


Learning Outcomes: Upon completing this course students should be able to
1. solve first-order separable and linear differential equations, and use these methods to solve applied problems,
2. solve higher-order constant-coefficient linear differential equations and systems of differential equations, and use these methods to solve applied problems,
3. find Laplace transforms and inverse transforms, and apply these to solve differential equations, and
4. find the Fourier series of a function.

Calculator: A calculator such as TI83/84 plus will be allowed to use on tests, quizzes and final exam. Check with the instructor other calculator types before you can use them on the testing.

Homework: If you do not complete all homework assignments with good understanding of the concepts and techniques involved, it will be extremely hard (almost impossible) that you will be successful in this course. This statement is based on the instructor’s past experiences in teaching. The homework will not be collected for grading, but some questions related to homework assignments will be answered in the beginning of the class. Additional questions will be answered in the office hours.

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<td>pp. 17: 1-4, 7-14</td>
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<td>pp. 27: Mixture: 9, 10, Circuits: 15, 16, Falling bodies: 17</td>
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Requirements of the Course/Method of Evaluation/Makeup Policy:
The student is expected to:

- read the textbook and other related reading assignments;
- complete homework assignments;
- take unannounced quizzes (15%); two of approximately eight quizzes will be dropped
  (There will be no make-up quiz for any reason.)
- take three tests (20% each) tentatively scheduled as follows:
  Test 1 (Monday, February 11)
  Test 2 (Monday, March 25)
  Test 3 (Friday, April 26)
  At most one make-up test will be allowed with the instructor’s discretion. Its request must be made with valid documented reasons prior to the scheduled time of the test, or not more than a day thereafter.
- take Comprehensive Final Exam (25%)[date and time: TBA]
  Quizzes, Tests and Final Exam are closed book and closed notes. Everyone must take the final exam. The final exam percentage will be used to replace the percentage of your lowest test score, if it helps your average. There will be no extra credit work in this course. Work hard to achieve and maintain the grade you want out of the course through regular assignments, quizzes, tests, and final exam.

Grading Scale:
A     90% and above   B     80-89%   C     70-79%   D     60-69%   F     Below 60

Students with Disabilities: Students with disabilities are encouraged to contact the counselor working with disabilities at (678) 915-7361 as soon as possible to better ensure that necessary and appropriate accommodations are implemented in a timely fashion.

Classroom Behavior: All cell phones must be turned off in the classroom. You are expected to arrive on time, be ready to begin class at the specified class time, and not be disruptive during class.

Honor Code: All students are expected to abide by the SPSU Honor Code at http://www.spsu.edu/honorcode/

Important Dates:
Classes begin: Monday, January 7
End of Drop/Add: Thursday, January 10
Martin Luther King Jr. Day holiday: Monday, January 21
Last day of withdraw with a grade of W: Tuesday, February 26
Spring Break: March 4-March 8
Last day of classes: Monday, April 29
Final Exam: May 1- May 7

The instructor of the course reserves the right to make changes on this syllabus if it is absolutely necessary to account for ineluctable circumstances. In such events, students will be notified of any changes ahead of time by the instructor.