Math 3303: Ordinary Differential Equations, Fall 2015

Instructor: Dr. A. Boumenir
Location: Monday, Wednesday, Friday 9:00-10:00, Boyd 301
Office: Boyd 321
Office Hours: Monday, Wednesday, Friday 10:00-11:00 & 12:00 1:00 Boyd 321
Math Tutoring Center and by appointment
Contact: 678-839-4131 or boumenir@westga.edu
Text: Differential equations, with Boundary Value problems (8th edition )
by D. Zill and M. Cullen, Brooks/Cole

Objective: This course is an introduction to differential equations. The student will learn the
main methods used to solve simple differential equations and the theoretical side
of existence and uniqueness of solutions. Due to its importance in real life
applications, and engineering, we shall use Maple, a computer algebra system
CAS, to explore topics such as the Laplace transform, Matrices and the numerical
integration of differential equations. (TLC-1116) on Fridays.

Tests: There will be 3 class tests, 100 points each, given on Mondays
T1 Monday 5th October, T2 2nd November, T3 30th November:

Quizzes: Weekly quizzes are given on Fridays and cover questions from the homework.
Each quiz counts 20 points towards your final grade and the best 5 Quizzes are counted.

Final Exam: The final exam is Monday, 7th December 10:00-12:00pm and counts 200 pts

Evaluation:

<table>
<thead>
<tr>
<th>Tests</th>
<th>300 points</th>
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</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>100 points</td>
</tr>
<tr>
<td>Final</td>
<td>200 points</td>
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Grading: 600 => A > 520 => B > 440 => C > 360 => D > 300 => F.

W Deadline: October 14th the last day to withdraw with a grade of W.
Attendance: 6 absences lead to WF.

Material: We shall cover all of: Chaps 1-8 from the book.

Maple: You can purchase your personal student copy of Maple 12 part of this course at a
discounted price. Please visit the link