Syllabus
Ordinary Differential Equations
MATH 3303-001
Spring 2019

Instructor: Dr. N. S. Hoang
Office: Boyd 324
Email: nhoang@westga.edu

Class meeting time: MWF: 12:05 pm-12:55 pm
Class room: Boyd 305.

Prerequisites: Grade of C or better in Calculus II.


Use of calculators: No calculator is allowed during exams.

Required equipment: An access to Webassign is required for the class.

Webassign key: westga 0523 7121

Grading: Grades are based on a total of 700 pts given as follows

<table>
<thead>
<tr>
<th>Total</th>
<th>Homework</th>
<th>Quizzes</th>
<th>Exam 1</th>
<th>Exam 2</th>
<th>Exam 3</th>
<th>Final Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>700 pts</td>
<td>100 pts</td>
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<td>100 pts</td>
<td>100 pts</td>
<td>200 pts</td>
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</tbody>
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Exams: There are three midterm exams, given during the regular lecture time. The dates for midterm exams are February 4, March 4, and April 8. Final exam is scheduled on Monday, May 06 from 11:00 AM–1:00 PM and is a comprehensive exam.

Homework: Homework assignments will be provided online on Webassign.

Quizzes: Quizzes will be given during class lectures.

Attendance: Students are expected to attend and fully participate in all classes. Attendance is recorded at random dates during the semester.

Common Language for Course Syllabi: Students, please carefully review the following information at the link https://www.westga.edu/student-services/counseling/assets-counseling/docs/common-language-for-course-syllabi.pdf. It contains important material pertaining to your rights and responsibilities in this class. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

Withdrawal Policy: The deadline for an automatic W withdrawal is: February 27th. For more information about withdrawal policy, please read the information at the link https://www.westga.edu/student-services/registrar/drop-add-and-withdrawal.php

Make-Up Work: There are NO make-up grades for ANY reason. Students having an absence for any reason on the day homework or a quiz is due must complete the assignment on time online. Students having an unexcused absence on the day of a graded assignment will receive a grade of zero for that assignment. Students having an excused absence on the day of a test will have their test average entered for the missed grade. Absences must be excused before they occur except in extraordinary cases, such as active military duty, jury duty, or hospitalization. Being sick, short of being hospitalized, is not an excuse. If you anticipate being absent from class for a religious holiday, it is your responsibility to notify me in advance.
Learning out comes

Students should be able to demonstrate

1. The ability to determine if a first order initial value problem (IVP) is guaranteed to have a unique solution.

2. The ability to solve first order IVPs by using techniques such as separation of variables, integrating factors, and realization of exactness.

3. The ability to solve higher order IVPs involving constant coefficients by using Laplace Transforms, undetermined coefficients, and variation of parameters.

4. The ability to find equilibrium solutions of differential equations and their stability using a phase plane analysis.

5. The ability to solve physical problems from sciences evolving first order IVPs.

6. The ability to solve systems of first order linear ordinary differential equations (ODEs) with constant coefficients using techniques from Linear Algebra in addition to Laplace Transforms.

7. The ability to do a phase plane stability analysis of equilibrium solutions to linear systems of ODEs.