Mathematics 3350 - D01
Higher Mathematics for Engineers & Scientists I

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Text: Advanced Engineering Mathematics, 5th Revised Edition by Dennis G. Zill and Michael R. Cullen, published by Jones & Bartlett

ABOUT THE COURSE: This course covers topics in ordinary differential equations. Topics to be covered include: first-order differential equations, modeling with first-order differential equations, higher-order differential equations, modeling with higher-order differential equations, Laplace transforms, series solutions of linear equations.

STUDENT LEARNING OUTCOMES:
Math 3350 students will study topics of differential equations, their solutions, and applications to physical sciences and engineering. In particular the students will learn:
- to recognize a differential equation and its solution
- to compute solutions of first order differential equations
- to compute solutions of higher order differential equations
- to use Laplace transforms
- the fundamental properties of power series, and how to use them to solve linear differential equations

ASSESSMENT OF LEARNING OUTCOMES:
The expected learning outcomes for the course will be assessed through:
regular homework, 2 mid-term exams, and 1 final exam.

Exams must be taken in person or with an approved proctor.
(Exam dates on next page)

Grading:

Homework:	20%
Tests (2):	25% each
Final Exam:	30%

Scale:

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	Below 60%

Note about grading scale: Following the final exam, adjustments downward **MAY** be made at the discretion of the instructor.

Homework: Homework problems will be assigned on WeBWorK at http://webwork.math. ttu.edu/webwork2/f18agruberm3350sD01/. (Your initial username is your eRaider name, and your initial password is your R-number, including the capital R.) Each assignment will be due at 11:59 PM on the specified date.

Rough Schedule	
Week 1 — 4	First-Order Differential Equations
Week 5 — 9	Higher-Order Differential Equations
Week 10 — 14	Laplace Transforms
Week 15 — 16	Series Solutions of Linear Equations

ABSENCE FOR OBSERVANCE OF RELIGIOUS HOLY DAY:
A student who intends to observe a religious holy day should make that intention known to the instructor prior to the absence. A student who is absent from classes for the observance of a religious holy day shall be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time after the absence.

ADA NOTIFICATION:
Any student who, because of a disability, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible to request necessary accommodations. Students should present appropriate verification from Student Disability Services (AccessTECH). No requirement exists that accommodations be made prior to completion of this approved process.

ACADEMIC HONESTY:
It is the aim of the faculty of Texas Tech University to foster a spirit of complete honesty and high standards of integrity. "Scholastic dishonesty" includes but is not limited to cheating, plagiarism, collusion, falsifying academic records, misrepresenting facts, and any act designed to give unfair academic advantage to the student.

CIVILITY:
Students are expected to assist in maintaining a classroom environment conducive to learning. In order to assure that all students have an opportunity to gain from time spent in class, troublesome behavior will not be tolerated. At a minimum, this includes using cellular phones, making offensive remarks, reading newspapers, leaving class early, arriving to class late, sleeping or engaging in any other form of distraction.

IMPORTANT DATES:

October 10 & November 16 - Exams
Friday, Dec 7 - Final Exam
Sept. 3, Nov. 21 – 23 - Holidays
Sept 12 - Last day to drop w/o penalty
Oct 29 - Last day to drop w/ penalty

CAMPUS RESOURCES:
+ TTU Math & Stats Tutoring & Study Center   free tutorial service in MATH 106
+ Tutoring List   A list of tutors you may hire is available in MATH 201