Math 3350 Section 2  Fall 2009

Room & Time:  MWF 8:00-9:00, Room MA 011
Instructor:  Dr. David S. Gilliam
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Phone:  806-742-2580 ext. 265
Web Page:  http://www.math.ttu.edu/~gilliam/ttu/f09/m3350_f09/m3350_f09.html
Office Hours:  10:00-11:00, MWF and by appointment

Calculators:  Calculators will NOT be allowed on exams.

Expected Outcomes Math 3350
This course is intended to develop students skills in the following areas:

Course Outline Math 3350

Chap 1  Introduction to Differential Equations (A) Section 1.1, Definitions and Terminology (B) Section 1.2, Initial Value Problem

Chap 2  First-Order Differential Equations (A) Section 2.1, Solution Curves (B) Section 2.2, Separable Variables (C) Section 2.3, Linear Equations (D) Section 2.4 Exact Equations (E) Section 2.5 Solution by Substitution (F) Section 2.6 A Numerical Method (G) Section 2.7 Linear Models (H) Section 2.8 Nonlinear Models

Chap 3  Higher-Order Differential Equations (A) Section 3.1, Introduction, Homogeneous and Non-homogeneous Equations. (B) Section 3.2, Reduction of Order (C) Section 3.3, Homogeneous Constant Coefficient Equations (2nd and higher order) (D) Section 3.4 Undetermined Coefficients (E) Section 3.5, Variation of Parameters (F) Section 3.6, Cauchy-Euler Equations (G) Section 3.8 Briefly discuss Spring/Mass system

Chap 4  Series Solutions of Linear Equations (A) Section 5.1, Power Series Solutions about Ordinary Points (B) Section 5.3, Special Functions (briefly)

Chap 5  Laplace Transforms (A) Section 4.1, Definition of Laplace Transform (B) Section 4.2, Inverse Laplace Transforms and Transforms of Derivatives (C) Section 4.3, The Shift Theorems and Heaviside function (D) Section 4.4, Convolutions and Integral Equations (E) Section 4.5, Dirac Delta Function

Assessment of Learner Outcomes (Grading Policy):  Assessment of learning outcomes will be based on exams and homework assignments. In more detail:

1. There will be 3 exams given in class. For review for an exam, sample tests will be handed out several days in advance of each exam. Each exam counts as one score. A missed exam gives a score of 0, i.e., there are no makeup exams. Under extreme (and well documented) circumstances, arrangements might be made to take a test in advance.
2. There will be approximately 12 online homework assignments using WebWork. The homework will count as 1 additional score.
3. There will be approximately 10 short in-class quizzes. The quizzes will count as one score. In computing your grade for quizzes your lowest quiz score will be dropped.
4. The final exam will count for 2 more scores. This final is a comprehensive final.
5. After the final you will have 7 scores. Your final grade for the course will be determined by the average of your best 5 of these 7 scores.

Grading scale: 
90-100, A; 80-89, B; 70-79, C; 55-69, D; < 55, F

Important Dates:
(2) October 12 – 13, Monday – Tuesday Student holiday;
(3) November 2, Monday Last day to drop a course
(4) December 3 – 9, Thursday – Wednesday Period of no examinations.
(6) December 9, Wednesday Last day of classes.
(7) Final examination. 10:30 a.m. – 1:00 p.m. Saturday December 12 Room to be announced.

Attendance: Attendance will probably be taken on a regular basis to provide evidence of attendance and you are expected to attend every class. In particular students are responsible for any and all information given in class, e.g., test dates, quizzes, assignments, and general course material.

ADA Accommodations: Any student who, because of a disability, may require special arrangements in order to meet course requirements should contact me as soon as possible to make necessary arrangements. The instructor may request verification of need from the Dean of Students Office.

Religious Holy Day: 1. “Religious holy day” means a holy day observed by a religion whose places of worship are exempt from property taxation under Texas Tax Code §11.20. 2. A student who intends to observe a religious holy day should make that intention known to the instructor prior to the absence. 3. Any a student who is to be absent from classes for the observance of a religious holy day should arrange with the instructor to make up the missed work. 4. A student who is excused for religious observance may not be penalized for the absence; however, the instructor may respond appropriately if the student fails to complete the assignment satisfactorily.

Student Honesty and Classroom Policy: Cheating will not be tolerated and may result in severe academic sanctions. Disruptive behavior during class will not be tolerated. All cell phones are to be turned off upon entering the classroom – there are no exceptions. Disruptive behavior includes talking out of turn, cell phones ringing during class, and repeatedly arriving late or leaving class early. Class starts promptly on the hour. Please try to arrive on time.