Mathematics 2310 - Applied Differential Equations I
Spring 2013

Instructor: Dan Stanescu, 218 Ross Hall, Tel. 766-4380,
Website: http://www.uwyo.edu/stanescu, Email: stanescu@uwyo.edu.
Office Hours: MW 10:00-11:00AM and by appointment.
Class time & room: MWF 9:00-9:50AM in BU 10.
Text: Elementary Differential Equations and Boundary Value Problems,
Course Description: Differential Equations are widely used to describe
phenomena in physical sciences. The course will provide you with elemen-
tary means to solve them and to understand the properties of the solutions.
Emphasis is on solution of differential equations of first degree, linear equa-
tions with constant coefficients of higher degrees, and on the build-up of
mathematical models that lead to such equations.

GRADING

• Homework: 30%. Homework will come in two flavors, one using the
  online WebWork system, the other one hand-written. For the latter part,
  at least one set of homework problems will be assigned before each test. All
  homework sets have the same weight; I’ll try to grade as many problems as
  possible in every set, but it may happen that only a subset of the problems
  will be graded. The solutions to graded problems will be posted on my
  website. Your solutions must be turned in within a week from the date
  you’ve been assigned the homework. No make-ups for homeworks; however,
  your worst homework grade will not be taken into consideration, both for
  the online homeworks and the hand-written ones.
• Two Mid-term Exams (20% each): 40%. These exams will be held
  at class time. In case you must miss an exam, please make arrangements
  beforehand. Requests for make-up after the scheduled date will not be
  honored. The date for each test will be announced in class at least one week
  beforehand. The first test will be held immediately after the material in
  chapter 2 is covered; the second test after chapter 3.
• Final exam: 30%. Will feature approximately 60% material covered
  after the last midterm and 40% comprehensive material.

TENTATIVE LIST OF TOPICS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Chapter/Section</th>
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<tbody>
<tr>
<td>Introduction.</td>
<td>1.1 - 1.3</td>
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<tr>
<td>First Order Differential Equations.</td>
<td>2.1 - 2.8</td>
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Attendance Policy: University sponsored absences are cleared through the Office of Student Life (UW Regulation 6-713). Students with official authorized absences are permitted to make up work without penalty in classes missed. Beware, a make-up exam could be harder than the original.

Academic Honesty: The University of Wyoming is built upon a strong foundation of integrity, respect and trust. All members of the university community have a responsibility to be honest and the right to expect honesty from others. Any form of academic dishonesty (UW Regulation 6-802) is unacceptable to our community and will not be tolerated.

Civility: Our mutual responsibilities are explained in the document ”A & S Students and Teachers - Working Together” (uwadmnweb.uwyo.edu/a&s/Current/default.asp). Unsanctioned talking, use of cell phones and ipods, eating, sleeping, and reading unrelated materials during class are considered rude and disruptive behaviors. Students who persist in rude or disruptive behavior may be dropped from the class after a suitable warning.

Disability Statement: If you have a physical, learning, or psychological disability and require accommodations, please let me know as soon as possible. You must register with, and provide documentation of your disability to University Disability Support Services (UDSS) in SEO, room 330 Knight Hall. 766-6189, TTY: 766-3073.

The information contained herein is tentative. If the instructor finds that changes are necessary, he will announce them in class at least one week beforehand.