Mathematics 3310 - Applied Differential Equations II  
Spring 2012

Instructor: Dan Stanescu, 218 Ross Hall, Tel. 766-4380,  
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Office Hours: T 1:00PM-2:00PM, W 2:00-3:00PM and by appointment.  
Class time & room: MWF 1:10-2:00PM in EN 2108.  
Text: Elementary Differential Equations and Boundary Value Problems,  

Brief Course Description: Differential Equations are widely used to describe phenomena in physical sciences. This course is the second in a two-semester sequence on differential equations and their applications. The topics include systems of first-order linear differential equations, series solutions of second-order equations, nonlinear equations and stability, partial differential equations and Fourier series, and boundary value problems and Sturm-Liouville theory. These topics are covered in chapters 7, 5, 9, 10 and 11, respectively, of the textbook.

GRADING

• Homework: 25%. Basically one set of homework problems will be assigned for every topic, with an additional set toward the end of the semester. 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 and the solutions 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.

• 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. Tentative dates for these exams are February 10 and March 9. The exact date will be announced in class at least one week in advance.

• Final exam: 30%. Will feature approximately 60% material covered after the last midterm and 40% comprehensive material.

• Class participation: 5%. That’s right, class participation may make the difference whether you get an A or a B! This means both attendance and involvement in class. Take this as an invitation to work with me as much as possible toward understanding the material in class and using our time together wisely.

Attendance Policy: University sponsored absences are cleared through the Office of Student Life (UW Regulation 6-713). Students with official au-
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" ([uwadmweb.uwyo.edu/a&s/Current/default.asp](http://uwadmweb.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.*