MATH 377 Differential Equations II
Dr. Boersma
Winter 2012

Goals: This course will continue to explore ordinary differential equations. We will begin the course by completing the classification of linear systems based on a trace/determinant analysis. These results will be used when we take an in-depth look at forced harmonic oscillators and the phenomenon of resonance. The course will finish up with a brief introduction to Laplace transforms. We will finish covering chapter 3 of our textbook and go on to cover most of chapters 4 and 6 as well.

Office: Bouillon 107E, phone: 963-1395, email boersmas@cwu.edu. Office hours will be announced in class shortly. You may of course drop by anytime. If I'm not busy I'll be glad to talk with you.

Required Materials **Text:**_Differential Equations_, by Blanchard, Devaney, and Hall (third edition).

Your Grade: Your final grade in this course will depend on three exams and several graded homework assignments.

Exams Two of the exams will be given during the regular term while the third exam will be given during our regularly scheduled final exam period. Attendance is <u>mandatory</u> on these days. If you anticipate a conflict, please see me at least one week **before** the date of the exam.

Graded Homework Every couple of weeks I will assign a few problems to be turned in and graded. Please take advantage of this opportunity to show me what you have learned in this course! These are your chances to show me the best work you are capable of. Please hand in complete solutions to all problems I assign. All turned in homework should be neat and all steps and conclusions should be clearly explained. I will make it very clear when homework is to be handed in for a grade.

Homework There will also be **daily** homework assignments from the textbook. It is **your responsibility** to keep up with these assignments. Although these problems will not be collected or graded, they will provide you with a variety of practice before attempting the graded homework problems.

Attendance I will assume that everyone attends every class meeting. If you happen to miss a day, be advised that you are still responsible for any assignments that were given or turned in. Feel free to come by my office to discuss the day's activities that you may have missed.

Final Grades: As mentioned in part above, your final grade will depend on

Graded Homwork	100 pts.
Exams (100 pts each)	300 pts.
TOTAL	**400 pts.**

While I reserve the right to "curve" final grades as I deem appropriate, your grade will be no lower than:

A :400– 370	C+:317– 306
A–: 369– 358	C :305– 290
B+:357– 346	C–:289– 278
B :345– 330	D+:277– 266
B–: 329– 318	D :265– 250
	D– : 249– 238

Students who have special needs or disabilities that may affect their ability to access information or material presented in this course are encouraged to contact me or the Center for Disability Services.

DATES TO REMEMBER

Exam 1: January 30
Exam 2: February 22
Exam 3: March 13, 12:00 – 1:00 p.m.