

Syllabus for Mathematics 242, Section 003, Fall 2010

TIME AND PLACE: MW, 4:40 p.m. – 5:55 p.m., HU 201

INSTRUCTOR: Ralph Howard

OFFICE: LC 304

PHONE: 777-2913

OFFICE HOURS: TTh 2:00-3:00pm and by appointment

E-MAIL: howard@math.sc.edu TEXT: *Differential Equations* by C. H. Edwards and D. Penney 4th edition

CLASS WEB PAGE: <http://www.math.sc.edu/~howard/Classes/242b/>

Tests: There will be three midterms and a final. The midterms count for 100 points each and the final is 150 points. The dates of the tests are

Test 1 Wednesday, September 22

Test 2 Monday, October 25

Test 3 Monday, November 22

Final Monday, December 6, 5:30 p.m.

Homework and quizzes: Homework will be assigned and collected at least once a week. There will also be quizzes based on the homework. For the most part the quizzes will just be about basic definitions and techniques that will be needed and you will what they are about will be announced in the previous class. A word of warning: The homework and quizz total is as much as much as a test, so it is important that you do the homework.

Grading: The there is a total of 550 points possible for the term broken down as follows:

Three midterms @ 100 points each	300 points
Total for Homework and Quizzes	100 points
Final	150 points
Total	550 points

Your grade will be based on the total out of 550. The last day to drop without a grade of WF is Thursday, October 7 and you should have a good idea of where you stand by then.

Prerequisites: Qualification through placement or a grade of C or better in math 142.

There will not be make up exams or quizzes: If you miss a test, then your score on that exam is 75% of the average of your other test scores including the final. If a second exam is messed the score on it is zero. Likewise late homework will not be accepted and there will not be make up quizzes. If you miss a quiz then you lose the points.

Sharing calculators on quizzes and tests is not allowed: You should bring your calculator to every class meeting and especially to tests. If you do not bring it them you will not be allowed to share a calculator with someone else from the class on quizzes or tests and will thus lose the points on those questions that need a calculator. While some cell phone have calculators built into them, use of cell phones, even as a calculator, during tests or quizzes is not allowed.

Student learning outcomes: The students will master the the following concepts and techniques: Ordinary differential equations of first order, higher order linear equations, Laplace transform methods, series methods; numerical solution of differential equations, with applications to physical sciences and engineering.