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## MAP 2302 – Honors Differential Equations

### Syllabus and Course Schedule

- Instructor: Dr. Richard Crew, 404 Little Hall
- Meeting time: MWF6, Little 219
- Office hours: TBA

#### Introduction

This is my section of the Mathematics department's introductory course in ordinary differential equations. The course will stress theoretical principles and methods of solution. Some attention will be paid to applications and computational methods, but this will not be the main focus. The text is Nagle, Saff, and Snyder's *Differential Equations and Boundary Value Problems*, 6th edition. We will cover most, though not all, of chapters one through seven.

#### Prerequisites

Calculus 2 (MAC2312 or MAC3473) is required.  
 Calculus 3 (MAC2313 or MAC3474) is useful, but not absolutely necessary.

For this course it is *essential* to have mastered the integration techniques taught in Calculus 2. If it has been a while since you have taken that course, it would be a good idea to review these techniques, particularly the method of partial fractions. In addition to the course textbook, it would be useful to have a calculus book on hand as a reference.

#### Course Format and Grading

The grade for the course will be determined by the following assigned material: four hour exams during the semester, a final exam, and four quizzes. Homework will be assigned but not collected or graded; it will be your preparation for the exams and quizzes. The dates for the quizzes and midterm exams will be announced later. The final exam is on the date specified by the University Course Schedule.

The final course grade will be determined as follows: the four exams will be equally weighted, and together will count for 60% of the course grade. Likewise the four quizzes will count for 20% of the course grade. The final exam will contribute 20%. Letter grades will then be assigned as follows: A, 90% or above; B, 80% up to 90%; C, 70% up to 80%; D, 60% up to 70%. If necessary, this algorithm will be adjusted after the second exam.

#### Course Policies

You will want to be familiar with the University of Florida's [Academic Honesty Guidelines](#).

If you miss a class, it is your responsibility to find out what happened, and whether any announcements were made. Except in the case of documented medical emergencies, makeup tests will *only* be given if they are arranged in advance with the instructor. Most cases will require a valid medical excuse.

