

Math 2910.701, Honors Differential Equations

Course Information

Spring 2015

Section Instructor: Dr. Lisa Mantini

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- ▷ FAX number: 405–744–8275.
- ▷ Office hours: M 2:30–3:20 PM, W 1:30–2:20 PM, R 1:00–1:50 PM, or by appointment.

Class times: Tuesdays, 10:30–11:20 AM in PS 121 (maybe move?)

Course Objectives: The objective of this course is to provide an extra Honors dimension to your study of Differential Equations. We will do this through a few additional activities in theory, in problem solving, and in the applications of Differential Equations in modeling and prediction for phenomena in various fields.

Prerequisites: The prerequisite for this course is a solid knowledge of techniques of integration from Calculus 2 and participation in the Honors College. I would recommend that your GPA in Math courses also be at an Honors level as well.

Text: I will provide additional materials as needed in addition to your current textbook for Math 2233.

Course Requirements: Students enrolled in this course will complete the following for a point total out of 150 points:

- ▷ 3 Projects, worth 25 points each, for a total of 75 points, due on
 - ★ Tuesday, February 9;
 - ★ Tuesday, March 9;
 - ★ Tuesday, April 13.
- ▷ 8 Assignments, quizzes, or in-class activities worth 10 points each, due most weeks when a project is not due.

Grading: Preliminary cutoffs for letter grades are as follows. Note that a grade of A or B is necessary in order to earn Honors credit for this course.

- 135 points (90%) guarantees an A in the course;
- 120 points (80%) guarantees a B;
- 105 points (70%) guarantees a C;
- 90 points (60%) guarantees a D.

Projects: The due dates for projects have been determined with an attempt to avoid duplicating exam dates as project due dates. The projects are short written papers (about 4 pages each) which will involve solving a problem in an area of application using a differential equation.

Attendance Policy: Absences should be indicated to me in advance or as early as possible. An unexcused absence after the first will result in a 5 point deduction from your point total, so that every three unexcused absences after the first will result in a lowering of your grade by one letter grade.