



## Introduction to ODE Math 311P – Fall 2015

**Textbook:** *Differential Equations and Boundary Value Problems*, by Edwards and Penney, 4th edition

**Content:** The course will be on chapters 1 to 5 of the book, plus, time permitting, material from chapters 6 to 8.  
Tentative outline:

- First order differential equations: 3 weeks
- Euler's method: 1 week
- Linear equations of second or higher order: 2 weeks
- Linear Systems of Differential Equations: 2 weeks
- Nonlinear systems, and further methods (Laplace transform, or power series method): 4 weeks

### Grading policy:

- Three exams equally weighted. Third exam is comprehensive, and scheduled for Tuesday, Dec. 15th, from 11:00 to 13:30. Makeups will be given only in case of documented medical excuse.
- Attendance, class participation and homework will play an important role in determining final grades, especially in borderline cases.
- Weekly homework will be posted on my website. The homework will be collected on Thursdays. (Unfortunately, late homeworks will not be accepted.) All pages should be stapled together.

### General rules:

- Cell phones and computers must be put away during class.
- Questions and feedback are always welcome.
- Showing up at office hours is not at all compulsory, but recommended. (It is more convenient if you come when you have doubts, rather than in the last week before the final.)

Wishing you a great semester start here at The U!

Bruno Benedetti  
Assistant Professor