Math 3002: Differential Equations (Spring 2015)

General Information

Time and place: Wednesdays and Fridays from 10:00am to 11:15am in room LL 521.
Instructor: Ana Rita Pires, apissarrapires@fordham.edu, LL 817F.

Course Topics and Textbook

This is a course on ordinary differential equations, discussing both analytic, qualitative and numerical methods for solving them.
The textbook is *Differential Equations*, 4th edition, by Blanchard, Devaney and Hall, ISBN 978-1133109037. Time permitting, we will cover (parts of) Chapters 1 to 7. You do not need a physical copy of the book, an electronic version is fine.

Homework

Homework will be assigned weekly (on most weeks) and collected on Fridays at the beginning of class. Late homework will not be accepted, but the lowest two homework scores will be dropped. You are welcome and encouraged to discuss and collaborate on the homework problems, but you should understand and independently write up your own answers.
Some homework will require the use of computer, in particular Mathematica, I will provide worksheets to guide your work with the program. You can use Mathematica on the computer labs on campus, see [http://legacy.fordham.edu/campus_resources/fordham_it/help_support/faculty_staff/faculty_technology_s/resources/mathematica_93552.asp](http://legacy.fordham.edu/campus_resources/fordham_it/help_support/faculty_staff/faculty_technology_s/resources/mathematica_93552.asp) for more information and basic tutorials.

Grade

Your grade will be determined as follows: 25% homework, 25% first midterm exam (tentatively February 20, in class), 25% second midterm exam (tentatively April 1, in class), 25% final exam (May 5, 9:30am, date and time set by the university).
Let me know as early as possible (and before the midterm / exam!) if you have a conflict with or need to miss a midterm or exam so we can decide if and what accomodations should be made.
While not mandatory, attendance and class participation will translate into a more interesting experience of the course (for everyone!), better learning, and consequently higher grades.
Extra Credit

An opportunity to earn extra credit (up to 5%) is to do one of the labs in the textbook (at the end of each chapter). Come see me if you want to do this so we can discuss which one. The deadline to hand in the lab report is April 15.

Calculators

Calculators and computers may be used on the homework problems, and non-graphing calculators on exams. You may not store formulas or any other information in the calculator and reference it during exams.

Getting help

Office Hours: Tuesday 2:00-4:00pm in the Math Help Room (LL 302F) and 4:00-5:00pm in my office (LL 817F), or by appointment.
Online Course Forum: You can ask and answer questions about the course and the material on our course webpage: https://piazza.com/fordham/spring2015/math3002.
Math Help Room: Help is available at LL 302F several hours per week, see the schedule posted on the door.

Academic Integrity

By being enrolled at Fordham University, students are bound to comply with the University Code of Conduct, which includes, but is not limited to the Standards of Academic Integrity. Do the right thing.

Disabilities

If you are a student with a documented disability and require academic accommodations, you need to register with the Office of Disability Services for Students (ODS) in order to request academic accommodations for your courses. Please contact the main ODS office at Rose Hill at 718-817-0655 to arrange services. Staff at ODS can walk you through the process and arrange appointments depending on which campus you take courses at. Accommodations are not retroactive, so you need to register with ODS prior to receiving your accommodations. Please see me after class or during office hours if you have questions or would like to submit your academic accommodation letter to me if you are already registered for accommodations with Fordham.