Math 212 - 001 : Differential Equations
(Spring 2016)

General Information

Time: Mondays and Wednesdays, 11:30 am – 12:45 am
Place: Math and Science Center, W303
Instructor: Dr. Michael H. Mertens
Office: Math and Science Center : E425
Office Hours: Mondays and Thursdays, 2:30 pm – 4:00 pm and by appointment
E-Mail: michael.mertens@emory.edu
Course Homepage: [http://www.mathcs.emory.edu/~mmerten/math212_2016Spring.html](http://www.mathcs.emory.edu/~mmerten/math212_2016Spring.html)

Content

The course is based on the textbook *Elementary Differential Equations*, 10th edition, by William E. Boyce and Richard C. DiPrima. We will cover chapters 1,2,3,4, and 6 as well as some additional material if time permits.

Prerequisites

The content of a year-long calculus course (e.g. Math 111 and Math 112) are required for the course and each student will be assumed to be familiar with the topics from this course. On the course homepage, there is a document available, where the most important prerequisites and some additional topics which cannot be covered in depth during the lecture are briefly recalled.

Attendance of classes

Every student is expected to attend every lecture. If a student misses one or several lectures, they are expected to inform themselves on their own about the material covered in the missed lecture. Naturally, it is allowed and in fact highly advisable to ask fellow students for help and/or visit the weekly office hours to ask questions.

Homework and Quizzes

There will be a weekly homework assignment, usually assigned on the course homepage and the Blackboard system on Wednesdays. Your homework will not be graded. Instead,
there will be a weekly in-class quiz consisting of one or more questions of a similar form as one (are more) of the homework problems, which will be graded. The quiz will usually take place on the Wednesday after the homework is assigned, except in weeks with a midterm exam. Every student is most strongly encouraged to solve all the homework exercises. You may (and should) of course work together in groups on the homework problems.

You should start working on the homework problems as early as possible so that in case there is a problem causing trouble you have the possibility to talk to fellow students about this problem or visit the office hours.

For practising purposes, complete solutions to selected homework problems will be published on the course homepage and via the Blackboard system.

Exams

There will be two midterm exams as well as one cumulative final exam. The midterm exams will take place during the usual class time.

Exam 1: Wednesday, February 24, 2016
Exam 2: Wednesday, April 6, 2016
Final : Thursday, April 28, 2016, 8:00 am – 10:30 am.

The dates for the midterm exams are tentative and subject to change. The date for the final exam is fixed and can under no circumstances be changed.

It is forbidden to use any kind of electronic device, such as laptop, calculator, cell phone, etc., or hard copies of lecture notes, books, etc., handwritten or printed, during the exams. Any student caught breaking this rule will immediately be excluded from the exam and get 0 points for it.

Grading

Your grade will be based on the following:

20%: weekly in-class quizzes
40%: 2 midterm exams
40%: cumulative final exam.

Your lowest quiz score will be dropped and the other quiz scores will be averaged to compute your total quiz score.

Honor Code

Please read and observe the Emory Honor Code, available at [http://catalog.college.emory.edu/academic/policy/honor_code.html](http://catalog.college.emory.edu/academic/policy/honor_code.html)