MATH315 Analysis for Applications (II) (Spring, 2016)

Text: Mathematical Methods in the Physical Sciences, by Mary L. Boas

Instructor: Dr. Ron Yang, Time: Lecture 11:30–12:25pm (MWF), LC14

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Office Hours: TBD (or by appointment) at ES 319(c)

Course objectives: This course is designed for math, science and engineering students. It is a continuation of AMAT314, so it is assumed that students have some knowledge of the material in earlier chapters. We will cover Chapters 11, 12, 13, and if time permits, Chapter 10. The main topics are special functions, series solution of differential equations, partial differential equations. All are very interesting and very useful topics. Due to the large amount of material to be covered, the course is relatively intense. But it can still be an exciting and enjoyable journey if we meet challenges with deep thinking and hard work.

Homework: Homework is assigned at each class and may be evaluated for extra credits.

Quiz: There is a 30-minute quiz on each Friday. Quiz problems are selected from the homework or the examples covered in lectures, with possible minor modifications. There may be extra credit problems in the quiz.

Test: There is a midterm exam and a final exam. Dates will be scheduled later.

Percentage: quiz 30%, midterm exam 30%, final exam 40%.