

Math 371 Syllabus

Course: Ordinary Differential Equations

Section: 01

Semester: Summer 2015

Instructor: Eran Crockett

Email: ecrocke1@binghamton.edu

Course Website: <https://www2.math.binghamton.edu/p/people/grads/crockett/teaching/math371>

Prerequisites

A grade of D or higher in Math 222 (or equivalent) is required. Although a D is sufficient, it is highly recommended that you have a grade of C or higher. In particular, you should have a good understanding of properties of exponential functions, techniques of integration, and infinite series.

Textbook

- The textbook for this class will be “A First Course in Differential Equations with Modeling Applications” by Dennis G. Zill. The tenth edition of this book is available on Amazon for roughly \$176.
- A recommended (but not required) textbook for this class is “An Introduction to Ordinary Differential Equations” by Earl A. Coddington. There is a Dover edition of this book available on Amazon for roughly \$11.

Course Objectives

The course will cover

- first order linear differential equations
- linear differential equations with constant coefficients
- series solutions of linear differential equations
- existence and uniqueness for first order differential equations

The course will mostly focus on being able to compute solutions to the above types of equations. However, since this is a 300-level course, I will spend some time on more theoretical aspects.

Help Rooms

The help rooms will be open Monday through Friday from noon to 5pm. A more detailed schedule will be posted on the course website.

Grades

10%	quizzes
10%	homework
10%	class participation
40%	four in-class exams
30%	final exam

Academic Honesty

Academic dishonesty (e.g. cheating, plagiarism, bribery, etc.) may result in automatic failure of the course. Please see the Binghamton University Student Academic Honesty Code for more details.

Important Dates

First day of class	July 6
Add/drop deadline	July 9
Withdrawal deadline	July 21
Last day of class	August 7