

# Math 324 Syllabus

Course: ODE's for Scientists/Engineers

Section: 01

Semester: Summer 2016

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Course Website: <https://www2.math.binghamton.edu/p/people/grads/crockett/teaching/math324>

## Prerequisites

A grade of C- or better in Math 222 (or equivalent) is required. 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.

## Course Objectives

The course will cover

- first-order equations (separable, linear, homogeneous, exact, substitutions)
- second-order linear equations (annihilator method, variation of parameters)
- applications (oscillations, resonance, circuits)
- Laplace transform
- power series solutions

## Grades

10%	quizzes
25%	exam 1
25%	exam 2
40%	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.