

Instructor: Frank Patane

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Class meets MTWRF 4th period in Little 205.

Textbook

Fundamentals of Differential Equations and Boundary Value Problems (6th Edition), by Nagle, Saff, and Snider.

Syllabus

This is a first course in ordinary differential equations. Some of the topics we will cover are first order linear ODEs; first order non-linear ODEs, including the techniques of separation of variables, exactness, and integrating factors; and second order linear ODEs, including the techniques of finding fundamental solutions of homogeneous equations, the Wronskian, undetermined coefficients, variation of parameters, the Laplace transform, and power series solutions.

Exams

Friday, May 23, in class.

Friday, June 6th, in class.

Friday, June 20th, in class.

Homework

I will assign homework problems each week to be collected and graded. Late homework will not be accepted. I will also assign some homework problems which will not be collected or graded. You should certainly do these problems as well, since exam questions may be based on them.

Grading

Each in-class exam is worth 25% of your final grade, and the homework assignments are worth a total of 25%. Your grade will be determined by the following scale:

$95 \leq x \leq 100$: A

$80 \leq x < 85$: B

$65 \leq x < 70$: C

$50 \leq x < 55$: D

$90 \leq x < 95$: A-

$75 \leq x < 80$: B-

$60 \leq x < 65$: C-

$45 \leq x < 50$: D-

$85 \leq x < 90$: B+

$70 \leq x < 75$: C+

$55 \leq x < 60$: D+

$0 \leq x < 45$: E