

21:640:314 Elementary Differential Equations/Spring 2005

Classes: MTh 1:00–2:20, Smith 243

Instructor: John Randall

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Office hours: M 8:30–10, WTh 11:30–1

Textbook: Morris Tenenbaum and Harry Pollard, *Ordinary Differential Equations*, Dover, 1985. ISBN 0-486-64940-7.

Course web site: <http://pegasus.rutgers.edu/~randall/314>

Topics

We will solve differential equations using

- methods for linear equations with constant coefficients
- integrating factors
- operator methods
- series solutions
- numerical methods

We will discuss applications to problems involving motion, growth and decay, temperature, damped and undamped vibration, electrical circuits, survival, and pursuit.

Grades

Grades will be based on 2 midterm exams (15% each), projects (20% total), quizzes (10% total), and a final exam (40%).

Important Dates

Tue	Jan	17	Classes begin
Mon	Jan	24	Last day to drop a course without a W
Tue	Jan	25	Last day to add a course
Thu	Mar	3	Exam #1
Sat	Mar	12	Spring recess begins
Sun	Mar	20	Spring recess ends
Mon	Mar	28	Last day to drop course with a W
Thu	Apr	14	Exam #2
Mon	May	2	Classes end
Thu	May	5	Final exams begin
Mon	May	9	Final Exam , 11:45–2:45