

Math 237 Course Outline

1. Course: Math 237 - Differential Equations and Computer Methods
2. Instructor: [Ron Hirschorn](#).
3. Text: Elementary Differential Equations and Boundary Value Problems by Boyce and DiPrima
4. Maple Tutorial: purchased at main office in Jeffery Hall
5. Course outline: Linear differential equations, models for dynamical systems, symbolic and numerical methods of solution. Systems of linear differential equations and connections with linear algebra. Laplace Transforms and their application to solving linear differential equations. Nonlinear differential equations stability, and Lyapunov's method. Numerical integration of differential equations, boundary value problems.
6. Course grading: Final mark=65% final exam + 25% Homework + 10% labs (If the final exam mark is under 40% then the final mark = final exam mark)

Please direct comments to [Instructor](#)

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