

MATH 370
Differential Equations
Fall 2014

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Reference text: Recommended: *Elementary Differential Equations and Boundary Value Problems*, 9th Edition, by W.E. Boyce and R.C. DiPrima (electronic or paper).

Grading: **The higher of either:**
a) 10% assignments, 20% one class test, 70% the final exam. A missed test cannot be made up.
b) 10% assignments, 90% final exam.

Assignments: They will be assigned weekly and solutions posted.

The following table gives an indication of the scope and *approximate* pace of the course, in terms of sections of the reference text book. Additional topics may be added and the corresponding material will be posted as needed. For this reason, *class attendance is essential*.

Topics	Sections	No. of Weeks on Each Topic
Introduction	1.1 – 1.4	1
First-order differential equations	2.1 – 2.6	3
Second-order differential equations	3.1 – 3.8	2
Higher-order differential equations	4.1 – 4.4	1
Series solutions of 2nd order Liner DE	5.1 – 5.3	1
Laplace transforms	6.1 – 6.6	2
Systems of First Order Lin. Eqs.	7.4 – 7.9	2