

Syllabus: MA 238 Applied Differential Equations

Last updated Spring 2004

Bulletin description:

First order differential equations. Higher order linear differential equations. Systems of first order linear differential equations. Laplace Transforms. Methods for approximating solutions to first order differential equations. Applications. Students are required to have a graphing calculator. Students should have taken or be taking MA 227. **Core Course.**

Text:

Differential equations and Boundary Value Problems, 3rd edition by C.H. Edwards and D.E. Penney. Published by Prentice Hall, ISBN 0-534-40059-0

Coverage:

Chapter 1	3 weeks
Chapter 2 (omit 2.4, 2.5 and 2.6)	3.5 weeks
Chap 3 (omit 3.6-3.8)	3.5weeks
Chap 4 (omit 4.3)	2 weeks
Chap 7 (omit 7.6)	2 weeks

Note - time allotments are approximate and do not include exams.

Learning Objectives:

Remarks: