

Math 308-200: Differential Equations , Summer 2005

Professor Emil J. Straube

MTWRF 8:00 - 9:35, BLOC 131

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Office hours: daily 9:45 - 10:45, and by appointment

Text: Nagle, Saff, Snider: *Differential Equations and Boundary Value Problems*, 4th edition

Prerequisite: Math-251 or equivalent (this includes a basic knowledge of a computer algebra system such as Maple)

Course Content: This is an introductory course in ordinary differential equations. Topics covered include: first-order differential equations, linear second order equations, mathematical models, Laplace transform methods, matrix methods for linear systems.

Grading Policy: There will be two exams, each worth 100 points, and a final exam, worth 200 points. There will also be 10 quizzes, each worth 10 points.

Course Syllabus:

week 1: 1.1 - 1.3, 2.1 - 2.3, quizzes 1&2 (Th, F)

week 2: 4.1 - 4.7, quizzes 3&4 (T, F)

week 3: 4.9, review, Exam 1 (Wed.), 7.1 - 7.2, quizzes 5&6 (T, F)

week 4: 7.3 - 7.5, 9.1 - 9.3, quizzes 7&8 (T,F)

week 5: 9.4, review, Exam 2 (Wed.), 9.5 - 9.7, quizzes 9&10 (T, F)

week 6: review, final exam: Wed., Aug. 10, 8:00-10:00