

Math 254 : Summer 2011

Suggested Syllabus

Monday	Tuesday	Wednesday	Thursday	Friday
July 11, 2011 Motivation, Introduction, Classification and Solutions of ODEs	July 12 Approximating Solutions, Quiz on Calculus background	July 13 Direction Fields, Separable Eqs	July 14 Separable Eqs, Linear Eqs	July 15 Linear Eqs, Exact Eqs
July 18 Applications and Modeling	July 19 Applications and Modeling	July 20 Exam #1	July 21 Linear 2nd Order Eqs	July 22 Complex Numbers + Complex Roots of Linear 2nd Order Eqs
July 25 Repeated roots of Linear 2nd Order Eqs, Reduction of Order	July 26 Nonhomogene ous Equations	July 27 In-depth study of Mechanical & Electrical Vibrations	July 28 Euler's Equation, Variation of Parameters	July 29 Exam #2
August 1 Matrix Theory, Systems of Autonomous Differential Eqs	August 2 Systems of Autonomous Differential Eqs	August 3 Systems of Autonomous Differential Eqs	August 4 Series Solutions	August 5 Series Solutions
August 8 Qualitative Study of Eqs: Stability, Applications	August 9 Applications and Modeling	August 10 Exam #3		