



**MAT 210/E**  
**Schedule for Distance Learning**  
(Spring '20)

Week	Topics
April 6-10	Chapter 1 - Review 1.4 Separable Equations and Applications 1.5 Linear First-Order Equations 1.6 Substitutions and Exact Equations (Substitutions, Homogeneous; Bernoulli Differential Equations)
April 13-17	Chapter 1 1.6 Substitutions and Exact Equations (Exact Differential Eqs, Reducible Second-Order Equations), Special Forms
April 20-24	Chapter 5 - Higher Order Differential Equations 5.1 Second-Order Linear Equations 5.2. General Solutions of Linear Equations
April 27 - May 1	Chapter 5 - Higher Order Differential Equations 5.3 Homogeneous Equations with Constant Coefficients 5.5 Nonhomogeneous Equations and Undetermined Coefficients
May 4-8	Chapter 6 - Eigenvalues and Eigenvectors 6.1 Introduction to Eigenvalues 6.2 Diagonalization of Matrices
May 11-15	Chapter 6 - 6.3 Applications Involving Powers of Matrices Chapter 7 - Linear Systems of Differential Equations 7.2 Matrices and Linear Systems
May 18-22	Chapter 7 - Linear Systems of Differential Equations 7.3 The Eigenvalue Method for Linear Systems
May 27-29 June 8-9	Chapter 10 - Laplace Transform Methods 10.1 Laplace Transforms and Inverse Transforms 10.2 Transformation of Initial Value Problems
June 1-5	Chapter 10 - Laplace Transform Methods 10.3 Translation and Partial Fractions 10.4 Derivatives, Integrals, and Products of Transforms ( <i>only Convolution</i> ) 10.5 Periodic and Piecewise Continuous Input Functions ( <i>only Unit Step Function</i> )