

Week	Dates	Coverage
1	Jan 18 & 20	<i>Course Intro</i> 1.1 – Background 1.2 – Solutions and Initial Value Problems <i>Inclément Weather Day</i>
2	Jan 25 & 27	1.3 – Direction Fields 1.4 – The Approximation Method of Euler 2.2 – Separable Equations 2.3 – Linear Equations
3	Feb 1 & 3	2.4 – Exact Equations 2.5 – Special Integrating Factors <i>Inclément Weather Day #2</i>
4	Feb 8 & 10	2.6 – Substitutions and Transformations <i>Exam #1</i>
5	Feb 15 & 17	3.2 – Compartmental Analysis 3.3 – Heating and Cooling of Buildings 4.2 – Homogeneous Linear Equations: The General Solution 4.3 – Auxiliary Equations with Complex Roots
6	Feb 22 & 24	4.4 – Nonhomogeneous Equations: The Method of Undetermined Coefficients 4.5 – The Superposition Principle and Undetermined Coefficients Revisited 4.6 – Variation of Parameters
7	Mar 1 & 3	4.7 – Variable-Coefficient Equation 4.9 – A Closer Look at Free Mechanical Vibrations <i>Exam #2</i>
8	Mar 8 & 10	6.1 – Basic Theory of Linear Differential Equations 6.2 – Homogeneous Linear Equations with Constant Coefficients 6.3 – Undetermined Coefficients and the Annihilator Method
9	Mar 15 & 17	6.4 – Method of Variation of Parameters 9.4 – Linear Systems in Normal Form
	Mar 21 - 25	<i>Spring Break</i>
10	Mar 29 & 31	9.5 – Homogeneous Linear Systems with Constant Coefficients 9.6 – Complex Eigenvalues <i>Exam #3</i>
11	Apr 5 & 7	7.2 – Definition of the Laplace Transform 7.3 – Properties of the Laplace Transform 7.4 – Inverse Laplace Transform
12	Apr 12 & 14	7.5 – Solving Initial Value Problems 7.6 – Transforms of Discontinuous Functions 7.7 – Transforms of Periodic and Power Functions
13	Apr 19 & 21	7.8 – Convolution 7.9 – Impulses and the Dirac Delta Function
14	Apr 26 & 28	7.10 – Solving Linear Systems with Laplace Transforms <i>Exam #4</i>
15	May 3 & May 5	<i>Catch up</i> <i>Review for Final Exam</i>
	May 9 - 13 <b>Finals Week</b>	<b>Final Exam – Tuesday, May 10, 8:00 – 10:00</b>