Reading: Sections 7.9, 3.1-3.5, 3.7, 3.8, 6.1-6.6.

Skills: 1) Find the general solution for a first order, linear, constant coefficient, non-homogeneous system.

2) Compute solutions to second order, linear, constant coefficient, homogeneous differential equations.

3) Use the method of undetermined coefficients to solve second order, linear, constant coefficient, non-homogeneous differential equations.

4) Use second order, linear, constant coefficient differential equations to model mechanical vibrations.

5) Compute Laplace transforms and inverse Laplace transforms.

6) Use Laplace transforms to compute solutions to linear differential equations with constant coefficients.

Practice: See http://www.math.cmu.edu/~gheorghi/prac260.html. Midterm 3 practice Quiz (ungraded) is available on WileyPlus.