EXAM #1: Statics & Mechanics of Materials

Wednesday, February 5, Exam 1a, Chapter 2   **Problems**

    Problem #1: Adding force vectors in 2- dimensions   9, 10

                                                                       33, 34, 35

    Problem #2:   Adding force vectors in 3-dimensions   38, 42, 43
                      using unit vectors, position vectors, and
                      coordinate direction angles

    Problem #3:   Use of dot product to find components along   62, 65, 81, 82
                      a direction and angle between two vectors

Thursday, February 6, Exam 1b, Chapter 3

    Problem #4:   Moment of a Force   11, 27, 34,

                                                                       6, 7, 9, 10, 38

    Problem #5   Moments about an axis and Force couples   45, 49, 66

    Problem #6:   Simplification of a Force Couple System   73, 74, 98, 102