**ENGR 2011: Engineering Analysis and Applications**

**Homework No. 11: Rank, Diagonalization and Least Squares Approximations**

**Goal:** Demonstrate that you understand how to compute the rank of a matrix and that you can find some simple least squares approximations to data.

**Textbook Problems:** 5.4.1 (rank only), 5.4.3,  5.5.1, 5.5.3, 5.5.5, 5.6.2(a,b), 5.6.4, 5.6.9, 5.7.1