**ENGR 2011: Engineering Analysis and Applications**

**Homework No. 3: Matrix Algebra and Inverses**

**Goal:** Demonstrate that you can do some simple matrix algebra and matrix inversion in Python.

**Textbook Problems:** 2.1.2, 2.1.4, 2.1.9, 2.1.13, 2.2.3, 2.2.8, 2.3.1, 2.3.11, 2.3.21, 2.3.30

**Computer Problems:**

Write a Python script that solves each of the above problems. Name your script according to the problem number. For example, for problem 2.3.11, your script would be:

/data/courses/engr\_2011/homework/current/hw\_03/p2.3.11.py

This script would compute the products of the matrices and print the result. You can use this to check your analytic solution. The Python script does not need to use block partitioning, but the analytic solution should.