

Name: \_\_\_\_\_

Due: 06/14

ESMI Applied Math  
Worksheet 6

**Problem 1.** Write a python function that takes in two numpy arrays (matrices) as inputs and returns the matrix-matrix product if possible. If the matrix-matrix product is not possible, your function should print "these matrices are not compatible for matrix-matrix multiplication". Code this up first in jupyter notebooks and once you are happy with your answer, please write your function below.

**Problem 2.** Write a function that takes in an adjacency list (in the form of a python dictionary) of a network and outputs the adjacency matrix of that network. Write your pseudocode first, code it up, then include both the pseudocode and the actual code below.