

MCIS 6273-Data Mining
HW3: Statistical Learning & Linear Regression

Instructor: Xin Yang

Due date: Sep 26th, 2016

First Name:

Last Name:

Student ID:

- 1 **Provide a sketch of typical bias, variance, training error, test error curves, on a single plot, as we go from less flexible statistical learning methods towards more flexible approaches. The x-axis should represent the amount of flexibility in the method, and the y-axis should represent the values for each curve. There should four curves. Make sure to label each one.**
- 2 **What does overfitting mean? Please also use graph to explain.**
- 3 **Please write down both the model accuracy evaluation method for regression setting and classification setting**

Hint: testing MSE for regression, test error rate for classification.