

# CEE 5390 - Modeling and Simulation in CEE

## Homework 2

*How much of human life is lost in waiting*

Ralph Waldo Emerson

January 25, 2008

### Question 1

Calculate the following from the data provided:

- The average delay for the first 50 customers
- The expected number of customers in the queue between 12am and noon
- The average server utilization between 12am and noon.

### Question 2

From the given data plot the following charts:

- A probability distribution of the inter-arrival times
- A probability distribution of the service times

Choose an appropriate bucket size.