## List of Definitions, Concepts, and Formulas for Math 125

## **Definitions and Concepts**

## Chapter 1

Controlled Experiment: A study of the effectiveness of a drug or treatment where some of the participants are not given the treatment.

Treatment Group: Those who receive the treatment.

Control Group: Those, similar to the members of the treatment group, who are withheld treatment.

Confounding Factors: Other factors which make the treament and control groups dissimilar.

Randomized Controls: Randomized assignment to the treatment or control group.

*Placebo*: A drug or treatment given to the control group that prevents the participants from knowing into which group they have been assigned.

Double-blinding: An experiment in which neither the participants or the researchers know to which group each participant is assigned, preventing bias in the response or the evaluations.

## Chapter 2

Observational Studies Studies where the assignment to treatement or control is no made by the researcher; usually the subjects assign themselves to one of the groups.

Historical Controls Studies where the assignment to treatment or control uses two groups, supposedly similar, but observed over two different time periods.