

# **STAT 110**

## **Chapter 6 Definitions**

single blind – an experiment is single blind if the subjects are unaware of the exact treatment being imposed on them  
→ controls for subject bias

double blind – an experiment is double blind if the subjects and the experimenter are unaware of the exact treatment being imposed  
→ controls for subject and experimenter bias

nonadherers – subjects who participate but do not follow the experimental treatment

refusals – some subjects that we want in our study may refuse to participate

dropouts – subjects may start in the study and later dropout  
→ especially true for experiments that last over an extended period of time

Completely Randomized – all the experimental subjects are allocated at random among all the treatments

Matched Pairs Design - Subjects are matched to form pairs, or each subject receives both treatments. Randomization occurs within each pair.

Block – a group of experimental subjects that are known before the experiment to be similar in some way that is expected to affect the response to the treatments

Block Design – the random assignment of subjects to treatments is carried out separately within each block