

BIOS 600 · Quiz 5.2: Study Design

Fall 2011

1. **Honor Pledge:** I have neither given nor received unauthorized aid on this assignment.
(Sign and print your name.)

2. Place the following terms in the appropriate group.

- (A) Completely Randomized Design
- (B) Randomized Block Design
- (C) Simple Random Sample
- (D) Stratified Random Sample
- (E) Clustered Random Sample

Experimental Design	Survey Design

3. Multiple Choice. Select the term that best describes the example or definition.

- (a) Single Blind
- (b) Double Blind
- (c) Triple Blind
- (d) Placebo Effect
- (e) Experimenter's Bias
- (f) Sampling Frame
- (g) Probability Sample
- (h) Nonresponse Bias
- (i) Unit Nonresponse
- (j) Item Nonresponse
- (k) Convenience Sample
- (l) Sampling Bias
- (m) Systematic Sampling
- (n) Stratified Random Sampling
- (o) Clustered Random Sample
- (p) Simple Random Sample (SRS)
- (q) Completely Randomized Design
- (r) Randomized Block Design
- (s) Potential Confounding Variable

	Example or Definition
	A sample within an elementary school where classrooms are randomly selected and then a random sample of students are surveyed from the selected classrooms.
	Consider a study where the treatment group is enrolled from hospital A and the control group is enrolled from hospital B. The variable <i>enrollment site</i> is an example of this.
	The patient is not aware of which treatment group to which he/she is assigned. However, the doctor evaluating the patient is aware of it.
	A statistician <i>tortures the data until it confesses</i> . That is, he/she analyzes the data until he/she finds a favorable result. This type of experimenter's bias could have been avoided had this study-type been used.
	I choose not to report my income because I'm embarrassed of my wealth.