Learning Objectives:

**Data Collection and Surveys:**

A1. Given a study, identify population, sample, parameter, sampling frame and statistic.
A2. Given a survey sample, determine if the sample is a voluntary response sample or a convenience sample.
A3. Given a study, recognize typical forms of biases such as potential undercoverage, nonresponse, and response bias.
A4. Given a study, determine whether a SRS, stratified random sample, cluster sample, or systematic sample was selected.
A5. Given a study’s objective, decide when to use a stratified random sample, cluster sample, systematic sample, or SRS.
A6. Given a description of a study determine if it the study is a census or a sample survey.

**Relevant Reading:**
- Chapter 2 pgs 14-15
- Chapter 3 pgs 72-75, 80-103 not including using the table of random digits on page 81-82.

**Suggested practice problems:**

2.3, 2.5, 3.4, 3.9, 3.13, 3.17, 3.40, 3.43, 3.48, 3.52, 3.85, 9.1