

Statistics 411/511

Homework 2

Due in Lab Monday and Tuesday, October 10 and 11

- **Homework Guidelines** Homework must be typed and stapled. Please see the syllabus for more guidelines.
- **Academic Integrity** You are encouraged to *discuss* the homework with other students, but what you turn in must be your own work in your own words. The syllabus contains more details and links to OSU's Student Conduct Code.

1. Exercises 20 and 21, pages 54-55.
2. The *sampling distribution* concept is an important component of statistical inference. This question aims to give you the opportunity to revisit this concept. No calculation or computing are needed! Explain briefly in your own words what the following are. If you would like to include a diagram, please do, but it's not necessary.
 - (a) The sampling distribution of the sample standard deviation.
 - (b) The mean of the sampling distribution of the sample standard deviation.