

I. **Sections to Read** (All content from DeGroot and Schervish's *Probability and Statistics* unless otherwise noted) A digital copy of the textbook is available for on our class PWeb site, under the Day One Access tab.

(a) Section 11.3 (read pages 715 - 720)

II. **Objectives** (By the end of the day's class, students should be able to do the following:)

- Create confidence intervals for regression coefficients
- Create prediction intervals for new data
- Explain how prediction intervals differ from confidence intervals
- Use plots of residuals to diagnose the appropriateness of linear models

III. **Reflection Questions** (Submit answers on Gradescope <https://www.gradescope.com>)

- 1) In your own words, explain the difference between *prediction intervals* and *confidence intervals*.
- 2) In 2 - 3 sentences, describe how to use a Normal QQ plot to assess the Normality of residuals.

IV. **Additional Feedback** Are there any topics you would like further clarification about? Do you have any additional questions based on the readings / videos? *If not, you may leave this section blank.*