Statistics 659 - Assignment 3
(due Wednesday, February 10, 2016, 11:59pm)

Instructions:

- The textbook exercises are in the book by Alan Agresti. This assignment covers material from Lectures 07–09.

- Whether you write out the solutions by hand or in a text document, be sure that they are *neat, legible and in order* (even if you choose to solve them in a different order).

- **Type** your name, email address, course number, section number and assignment number at the top of the first page (or cover page).

- Either scan or print your solutions to a **PDF** file under 15MB in size. It must be in a *single* file, not separate files for separate pages. Name the file using your name (for example, I could use twehrly659hw01.pdf) to avoid confusion with other students and/or assignments. *Do not* take a photo of each page and then paste them into a document – this will make your file too big and the results will generally not be very readable anyway.

- Login to your WebAssign account to upload your file. You must do this by **11:59 pm U.S. Central time**, *according to the WebAssign server*, on the due date. We highly recommend that you start the upload at least 15 minutes earlier. You can make multiple submissions but *only the last submission will be graded.*

2.16

2.18
2.18 e. Carry out a test for a linear trend in cell probabilities.
2.18 f. Construct a mosaic plot for this table. Interpret the plot.

2.19, 2.20, 2.21, 2.22

Construct a mosaic plot for the data in Problem 2.23. Then write a paragraph summarizing description and inference.

2.27
2.27 d. Construct a mosaic plot for the data. Relate the plot to your results in the earlier parts of the problem.

The remaining problems are only for students who have taken STAT 414, 610, STAT 630, or the equivalent.

2.25, 2.26