

Statistics 659 - Assignment 9
(due Friday, April 8, 2016, 11:59pm)

Instructions:

- 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*.

This assignment covers the material from Chapter 5 discussed in Lecture 27 and from Chapter 6 discussed in Lectures 27-30.

Answer the following problems from Agresti:

5.21, 5.22 (use the malformation data from Chapter 2), 5.23, 5.24

6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9

Some of the data sets can be found in **SAS Files for Chapter 6**.

Only for students having taken STAT 414, 610 or STAT 630)

- Fill in the mathematical details for the derivation of the probabilities for the three categories from the logits on slide 6, Chapter 6.
- (optional) Fill in the mathematical details on slide 30, Chapter 6.