**AML 610 Fall 2014 Homework #2**

**Submit all files to** **smtowers@asu.edu****.**

**Due Wed Sep 10th, 2014 at noon.**

**Please submit with name format hwk2\_<first name>\_<initial of last name>**

1. Using Google Scholar, find two papers on a topic that interests you that involve compartmental models (**not** the two papers you submitted for Hwk1). Read the entire web post “How to write a good scientific paper (and get your work published as painlessly as possible)” which can be found at <http://sherrytowers.com/?p=1876> In the post, I describe the seven key elements of scientific papers, identified by Lacum et al (2014). Read the Lacum paper (it is linked off of the web page). For each of your two papers, provide a latex document, with the papers cited, in which you give an itemized list of short sentences summarizing each of the 7 key elements (you can put the summary of both papers in the same document). If a paper does not discuss one or more of the key elements, point that out. Please also provide the PDF of the two papers.
2. Read the module “How to download an R script from the internet and run it” at

<http://sherrytowers.com/?p=1902> Follow all the instructions provided to download the R script <http://www.sherrytowers.com/short_test.R> and run it. You will be expected to be adept by next class at downloading R files, editing them, and running them because we will be doing this in class, and I will call on students by name to make specific changes to a given script, run it, and tell me what the result is. Make sure that you can do this.

In your homework, provide a screen shot of the commands you input into R, and the output of the script to the screen, including the output of the exercise where you change the script to print out the numbers 11 to 100 in a line.

(hint for this exercise: recall that the \n is the newline character... If you omit it, there will be no carriage return when using the cat() function to print to the screen)