MATH 299

HOMEWORK 4

Due Thursday, October 25

Problems from the book:

**Titanic**: 9.17 - 9.20

**Read** the following article:

“Substance Use Among College Athletes:   
A Comparison Based on Sport/Team Affiliation”

You can find this article on the Moodle page in the Folder “Articles” (it’s called “drug use - logistic”).

After reading, briefly **critique** the author’s use of logistic regression.

You’ll want to address questions like…

Is use of the logistic regression model appropriate in this context? What are your thoughts about whether the assumptions of the model are met? Is the sampling method valid, and is the sample representative of the larger population about which he makes conclusions? Are his conclusions valid for the tests he performs? Does he interpret things (like p-values, ORs, and CIs) correctly? Do you feel there are any limitations to this study that he didn’t explicitly discuss?

…But you should feel free to talk about any other issues/concerns that you have about his analysis.