503/650 2016: Assignment 10 – ORM Points missed:

Your name: Name of TA:

1. \_\_\_ of 5: Use the data from the MNLM assignments, where the dependent variable was an "ordinal" variable. Recall, the dependent variable **must** have at least four categories with appropriate value labels. Below, F refers to a factor variable you will interpret; C a continuous variable. X is a vector of 3 to 5 other independent variables. Construct an effective, professional-looking table describing the variables, including descriptive statistics. Include the distribution of the outcome variable showing percentages in each category. Use substantive names in all tables. Indicate the coding of binary variables and the metric for continuous variables. (This should be based on your table from Assignment 8).

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 5: Estimate the OLM using the variables from assignment 9. Use listcoef to compute the factor or percent change in the odds. You do not need to create a table, but should include the output from ologit and listcoef. Highlight the numbers used to answer questions 3 and 4.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 5: Use the factor change or the percent change coefficient, along with statistical significance, to describe the effect of C as though it is part of a published paper. Report only one coefficient—either standardized or unstandardized—whichever you find more effective to illustrate the effect.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 5: Use the factor change or the percent change coefficient, along with statistical significance, to describe the effect of F as though it is part of a published paper.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 5: Compute the average marginal effects for C and F, but only these two variables, using mchange. Include the output from mchange. Highlight the numbers used to answer later questions, indicating which numbers are used for which questions. You can use mchangeplot if you find it helpful to visualize the effects.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 5: Describe the average marginal effects for C, including a significance test, as though it is part of a published paper. Use only one of the change coefficients (e.g., if you use a unit change, don’t use a standard deviation change). You must describe the effect of C on each outcome category.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 5: Provide a confidence interval interpretation of the average discrete change for F as though it is part of a published paper.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 20: Present plots of predicted probabilities and cumulative probabilities similar to those in the lecture notes or Long and Freese. Show the plots and the commands used to create the plots. Be certain the reader can easily determine which region of the graph corresponds to which categories by including labels within the graph region for the cumulative plot. Best practices for graphs such as titles, nice axis markers, and a caption for provenance are required.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 10: Describe the effects of C on Pr(Y) based on your graph. This should read as though it is part of a published paper, including a summary of the overall pattern as well as specific, concrete results. Assume that your paper includes one of the plots (whichever is most effective at illustrating the effect), not both, from Question 8.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 20: You used the same data for the OLM and the MNLM. For the following, provide specific, comparable results (e.g., graphs, predicted probabilities, average marginal effects) from both models to justify your answers.

**10a.** Succinctly summarize and provide evidence for how the models provide similar results.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

**10b**. Succinctly summarize and provide evidence for how the models provide different results.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

**10c**. In general, are the results of the two models substantively consistent? Succinctly provide a rationale for your conclusion. Which model would you use if you were attempting to publish the findings from Assignment 8-10? Provide a short, clear justification. Note: An answer of “they are the same” must be thoroughly investigated and presented along with compelling evidence.

Font for your answer

Paste any Stata output here in Courier New 9 point font, single-spaced

1. \_\_\_ of 10: Assessment of the overall effectiveness of your answers.

CDAiu2016-a10-ORM-2016-07-26.docx