503/650 2016: Assignment 9 – MNLM Part 2 Points missed:

**Your name: Name of TA:**

**Before you start this assignment, question 8 of Assignment 8 must be approved. If you have questions about Assignment 8, ask before proceeding. You must turn in your graded Assignment 8 with Assignment 9.**

1. \_\_\_ of 15: Write at most two, precise, carefully edited paragraphs presenting your odds ratio results for C and F, adding information on other variables if necessary, as it might appear in an article. Use the appropriate factor change coefficients and tests along with information on significance. You must use your outline from Assignment 8 to structure your story. Do **not** refer to the odds ratio plot (i.e., describe the pattern to someone who will not see the graph). Keep in mind that your story is not considering information about marginal effects.

Font for your answer

1. \_\_\_ of 10: Use mchange to compute the average marginal effects for all variables. Use mchangeplot to plot the discrete changes for at least five variables, with C and F as the first two rows in the graph. Set the range of the x-axis and the number of tics so that the tic labels are “nice”. Show the plot. Use the note option to provide a key to the symbols in the plot. Include a title for your plot.

Font for your answer

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1. \_\_\_ of 5: Use mlogitplot to plot the odds ratio coefficients along with marginal effects indicated by the size of the letters for C and F. Follow the same guidelines for the graph as above. Show the plot.

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1. \_\_\_ of 10 Present plots of predicted probabilities similar to those in the lecture notes or Long and Freese (graph code will be provided by your AI). Show the plot and the commands used to create the plots. Be certain the reader can easily distinguish the lines and that the legend indicates each category. You plot should include a title, labeled axis, “nice” axis markers, etc.

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1. \_\_\_ of 10: Revise question 1 to add information on probabilities and marginal effects. To do this requires a lot of **careful thinking** and might require additional analyses. It is rare that probabilities and marginal effects do not change the substantive meaning of results. Your revision should seamlessly incorporated the new information into your overall story describing the results and be simply a few sentences added to question 1. Read question 6 before starting on this question.

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1. \_\_\_ of 10: Question 1 explained your findings using only odds ratios. Such explanations are often incomplete and can be misleading. In question 5 you revised your interpretation using only odds ratios to reflect what you learned by examining probabilities and marginal effects. For this question, summarize how your substantive conclusions changed. Since interpretations based solely on odds ratios cannot indicate the magnitude of the change in the probability of the outcome, it is impossible to conclude that “nothing changed”!

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1. \_\_\_ of 5: Assessment of the overall effectiveness of your answers.

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