

Course Title: Probability and Statistics with Applications Honors (edits)**Course Number: 1210300**

NGSSS Benchmark	Content Focus	Number of Questions	Suggested Cognitive Complexity (per CPALMS)
Reporting Category 1: Data Analysis in One Variable			
MAFS.912.S-ID.1.1	Represent data with plots on the real number line	2	2 Level 2
MAFS.912.S-ID.1.2	Use appropriate statistics to compare the center and spread of two or more data sets	2	1 Level 1 1 Level 2 1 Level 3
MAFS.912.S-ID.1.3	Interpret differences in shape, center, and spread in the context of the data sets	3	2 Level 2 1 Level 3
MAFS.912.S-ID.1.4	Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages	2	2 Level 2
<i>Reporting Category Total</i>		9	
Reporting Category 2: Data Analysis in Two Variables			
MAFS.912.S-ID.2.5	Summarize categorical data for two categorical data in two-way frequency tables. Interpret relative frequencies in the context of the data.	2	2 Level 2
MAFS.912.S-ID.2.6	Represent two quantitative variables in a scatter plot, describe how they are related, and fit a model to the data	2	2 Level 2
MAFS.912.S-ID.3.7	Interpret the slope and intercept of the linear model	1	1 Level 2 1 Level 3
MAFS.912.S-ID.3.8	Compute and interpret the correlation coefficient of a linear fit	2	1 Level 1 1 Level 2
<i>Reporting Category Total</i>		5	
Reporting Category 3: Surveys, Experiments, and Types of Sampling			
MAFS.912.S-IC.2.3	Recognize the purpose of and differences among surveys, experiments, and observational studies;	4	2 Level 1 2 Level 2
<i>Reporting Category Total</i>		4	
Reporting Category 4: Probability of Events			
MAFS.912.S-CP.1.1	Describe events as subsets of a sample space	1	1 Level 1
MAFS.912.S-CP.1.2	Understand and use the definition of two events being independent	1	1 Level 1
MAFS.912.S-CP.1.3	Understand and use the definition of conditional probability	2	2 Level 2
MAFS.912.S-CP.1.4	Use two-way frequency tables to estimate probabilities	2	2 Level 2
MAFS.912.S-CP.1.5	Recognize and interpret conditional probabilities and independence	2	1 Level 1 1 Level 2
MAFS.912.S-CP.2.6	Find conditional probabilities and interpret answers	3	1 Level 1 2 Level 2 1 Level 3
MAFS.912.S-CP.2.7	Apply the Addition Rule and interpret the answers	3	1 Level 1 2 Level 2
MAFS.912.S-CP.2.8	Apply the Multiplication Rule and interpret the answers	3	1 Level 1 2 Level 2
<i>Reporting Category Total</i>		17	

Overall Percentage for Written Test: ___ 100% ___

Overall Percentage for Performance Tasks: ___ 0% ___