Assessment: Course Four Column

Courses (MATH) - Statistics

STAT 152:Intro to Statistics

Course Outcomes	Assessment Measures	Results	Actions
Graphical, tabular, and numerical summaries of the distributions of variables in a data set - Select and produce appropriate graphical, tabular, and numerical summaries of the distributions of variables in a data set. Summarize such information into verbal and numeric descriptions. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam Problem numbers: #1 100% #2 92.2% #3 92.9% #4 78.6% #5 64.3% #6 50% #7 92.9% **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Average percentage: 81.7% (10/03/2019)	
Bivariate data using graphical, tabular, and numerical methods - Summarize relationships in bivariate data using graphical, tabular, and numerical methods including scatter plots, box plots, two-way tables, correlation coefficients, and linear regression. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam Problem numbers: # 8 50 % # 9 92.9% #10 57.1% **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Average Percentage: 66.7 % Results Analysis: In the course learning outcome #2, although the achievement criterion is met students struggled obtaining a linear correlation coefficient and a regression equation. (10/03/2019)	**Action:** For future classes, I am going to assign more problems and the reading assignment. (10/03/2019)
Normal distribution to interpret z-scores - Use the normal distribution to interpret z-scores and compute probabilities.	**Exam -** Proctored assignment: Final Exam Problem numbers:	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Average percentage: 76.9% (10/03/2019)	

Course Outcomes	Assessment Measures	Results	Actions
Course Outcome Status: Active **Next Assessment:** 2023-2024	# 11 92.2% # 12 64.3% # 13 71.4% **Criterion:** NA		
Construct a model for a random phenomenon - Construct a model for a random phenomenon using outcomes, events, and the assignment of probabilities. **Course Outcome Status:** Active **Next Assessment:** 2020-2021 **Start Date:** 09/19/2016	**Exam -** Final Exam **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Average percentage: 85.7% (10/03/2019)	
Sampling distribution - Apply the concept of a sampling distribution and discuss the distribution of the sample proportion under repeated sampling **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** No Average percentage: 57.2 % Results Analysis: In the course learning outcome #5, 6, and 7, Students didn't perform well on #16, 18, and 20. This is one of the common results in a math course. Students' performance is weak at solving real-world problems. (10/03/2019)	**Action:** Although the average students' performance on the general education learning outcome, "Apply relevant mathematical skills in solving real-world problems" was 65.3 % and the achievement criterion was met, I will give more examples and homework assignments for their thorough understanding in the future classes. (10/03/2019)
Dependence of margin of error - Understand the dependence of margin of error on sample size and confidence level. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam Problem numbers: # 17 85.7% # 18 64.3% **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Average Percentage: 75% (10/03/2019)	
Hypothesis testing - Apply methods of hypothesis testing to carry out a hypothesis about population means and population proportions and interpret the conclusion. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** Proctored assignment: Final Exam Problem numbers: # 19 71.4% # 20 42.9% # 21 78.6% **Criterion:** NA	**Reporting Period:** 2018-2019 **Criterion Met:** Yes Average Percentage: 64.3 % (10/03/2019)	**Action:** The students performed very well in this class achieving satisfactory in all 3 general education learning outcomes and 6 of the 7 course learning outcomes. I am going to continue maintaining clear communication with students during the semester

and answering questions from students as soon as possible. Students had difficulties in course learning outcomes #5, #6, and #7. Students need to be more diligent in reading materials and repeating more problems in My Stat Lab until they master concepts. I am going to assign additional homework problems that enforces their understanding of their reading materials. (10/03/2019)