We thank you for your time spent taking this survey.
Your response has been recorded.

COURSE ASSESSMENT FORM

Please select your name and course you are assessing

Faculty   Ogle, Derek H.

Course   MTH 107 - Statistical Concepts & Analysis

Is this course in the general education program (Liberal Education for the Environment and Society, Superior Connections, Growing Connections)?

Yes

No

Please select the general education category and learning outcome you are assessing.

General Education Category   Foundational skills in written communication and quantitative reasoning

Learning Outcome   use statistical or mathematical models in solving problems

Briefly describe the qualitative and/or quantitative measure that was used to determine proficiency for this particular learning outcome.

Some examples include, but are not limited to: overall class average, % of students who earn a particular score, % of students who participate in activity, % of students who improve performance by a certain amount, average score on an exam question or research paper, average score on a rubric, student survey.

average score on a rubric, student survey.

Three statistical models used in MTH107 are two-sample t-test, chi-square test, and linear regression. I have specific questions for these three items on my final exam. For each question I expect 75% of the students (first quartile, Q1) to get at least 50% of the points and 50% of the students (median) to get at least 75% of the points, I summarized the results for these three questions for 23 and 24 students that completed the final exam in two sections of MTH107, respectively, in Fall, 2019.

Briefly summarize your assessment results.

Students in both sections met my criterion for the chi-square test (section1: Q1=57%, median=80%; section2: Q1=64%, median=85%). Students in both sections met the Q1 criterion but only students in the second section met the median criterion for the two-sample t-test (section1: Q1=59%, median=71%; section2: Q1=59%, median=75%) Student in neither section met either criterion for linear regression (section1: Q1=0%, median=29%; section2: Q1=23%, median=54%).

Based on your assessment results, to what degree do you feel your students met proficiency for this learning outcome?

	Proficiency NOT met				Proficiency met
	1	2	3	4	5
Overall Class Proficiency	○	○	●	○	○
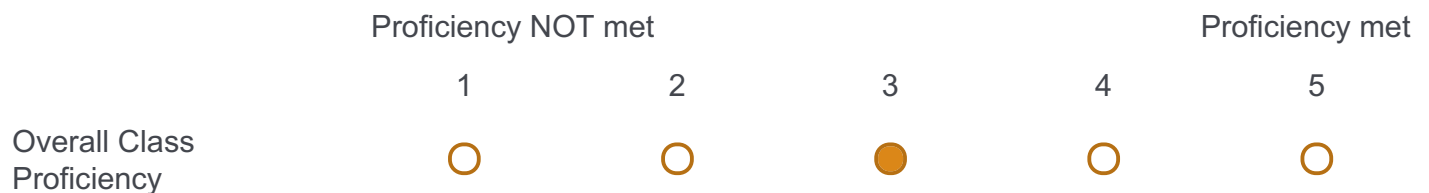
What are your plans for action in response to the assessment results

Students in both sections did reasonably well on the chi-square and two-sample t-tests, but very poorly on the linear regression question. One possible explanations are that the chi-square and two-sample t-tests were from later in the semester (i.e., closer to the final exam time), whereas the regression topic was earlier in the semester. However, students did not perform well on the linear regression question on the mid-term exam. To address the issue with linear regression I will reconsider the resources that I provide for students, increase the number of practice exercises that students are responsible for, provide more feedback on the linear regression exercises answer keys, and provide more practice on this topic near the end of the semester.

Thank you for taking the time to enter your assessment data. By clicking the arrow below, you will be submitting your data for this term. You will see a summary of what you entered immediately following submission - you will be able to download the info in a PDF if you would like the information for your own assessment records.