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

RETROACTIVE COURSE ASSESSMENT FORM

Faculty Name

Derek H. Ogle

Course Title (please also include semester date)

MTH107 Statistical Concepts and Analysis (Winter 2020 .. two sections)

What is the number of students assessed for this ILO?

48 total (28 in first section, 20 in second section)

Is the Intended Learning Outcome you will assess for this course part of 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	use statistical or mathematical models in solving problems ▼

Outcome

Briefly describe the qualitative and/or quantitative measure that was used to determine proficiency for this particular learning outcome.
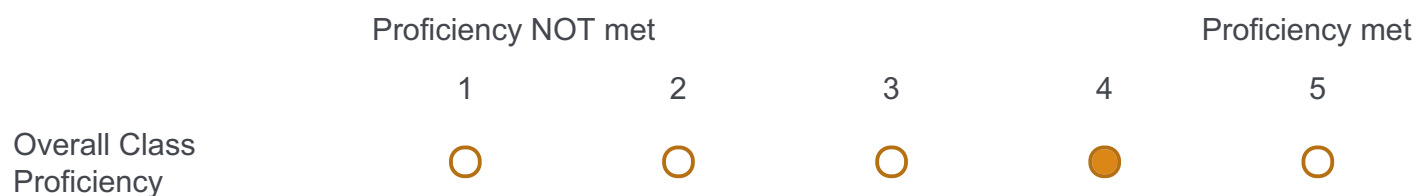
Some examples include, but are not limited to: overall class average, % of students who earn a particular score, % of students who participate in activity, % of students who improve performance by a certain amount, average score on an exam question or research paper, average score on a rubric, student survey.

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

Briefly summarize your assessment results.

Students in both sections met my criterion for the one-sample t-test (section1: Q1=63%, median=82%; section2: Q1=58%, median=84%), chi-square test (section1: Q1=73%, median=85%; section2: Q1=68%, median=93%), and linear regression (section1: Q1=78%, median=86%; section2: Q1=55%, median=75%). For the two sample t-test, students in both sections met the Q1 criterion (section1: 63%; section2: 51%), but only students in the first section met the median criterion (section1: 77%; section2: 74%).

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?

This was the semester that was interrupted by COVID19; thus, it is difficult to make much of these results. While the results look strong, several "struggling" students did not take the final exam and thus are not included in the results. This likely inflates the summary statistics. In addition, I purposely graded more easily given the hardships of the pandemic. Again, this likely inflates the statistics. One thing that I will continue in the future is treating the final exam as a take home exam.

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.