



QUANTITATIVE REASONING ASSESSMENT DATA ANALYSIS 2020 CHAPMAN UNIVERSITY

Summary of Analysis

In the AY 2019-2020, 22 of 49 undergraduate major degree programs participated in assessing 418 student work samples. The institution expects all undergraduate programs to participate in the core competencies assessment. Due to the COVID-19 pandemic and the sudden transition to online learning format, many programs could not collect assessment data that they typically collect during the academic year (e.g., laboratory work, performances, etc.). These programs were provided the option to conduct an [assessment check-up](#). For the Quantitative Reasoning assessment, 27 programs opted to conduct an assessment check-up for AY 2019-2020.

Of these assessments, 215 (51%) work samples were rated as “exceeding expectations, 105 (26%) work samples were rated as “meeting expectations,” and 98 (23%) work samples were rated as “not meeting expectations.” Please note that some programs do not distinguish between “exceeded” and “met” expectations.

2020 Quantitative Reasoning Assessment Data

Core Competency	Total	Exceeded	Met	Did Not Meet
(22 Programs)	418	215	105	98
	100%	51%	26%	23%

Of the 22 programs, one program reported as expected levels of achievement for quantitative reasoning as not being met. This program reported that a new faculty hire will work with faculty to restructure two core courses. A third course also will focus more on applying statistics to biological datasets. The program also acknowledged that too few upper-division courses reinforce these skills by requiring students to analyze their data with the tests and code learned in a previous course. The Program Director has identified this issue as a top priority for the next five years. The faculty will continue to discuss ways to improve the quantitative rigor in the major during monthly faculty meetings and the summer retreat.

Year-over-Year Assessment Data and Analysis

	2019	2020
Number of programs reporting assessment	33	22
Total number of assessments	747	418
Number of student work that exceeded or met expectations	607 (81%)	320 (77%)
Number of student work that did not meet expectations	140 (19%)	98 (23%); 58 (13%) See analysis below

The number of programs reporting assessments and the number of assessments for quantitative reasoning for 2020 is significantly lower than the number of assessment for 2019. As stated above, the lower numbers were due to COVID. We predict the lower number of assessments may be repeated in 2021.

In addition to the lower number of assessments, the percentage of those that either exceeded or met expectations—81% for 2019 and 77% for 2020—are not satisfactory. However, when the one program noted above is removed from the calculation, the exceeded or met percentage changes to 87%, a 10% increase and an improvement from the previous year. The increase in the percentage of those that did not meet expectations—19% for 2019 and 23% for 2020—would be different if the one program is removed from the calculations—13% for 2020. We will see if this year-over-year trend continues next year.