Tutorial 20-21 and 21-22

A One-way ANCOVA was conducted to determine a statistically significant difference between grades of students who attended tutorial compared to students in the same sections, controlling for one previous year's GPA. Summer 2020-Spring 2022 tutorial students were compared to all other students in the same sections. Their prior year GPA was calculated and students without prior enrollments were excluded from the analysis.
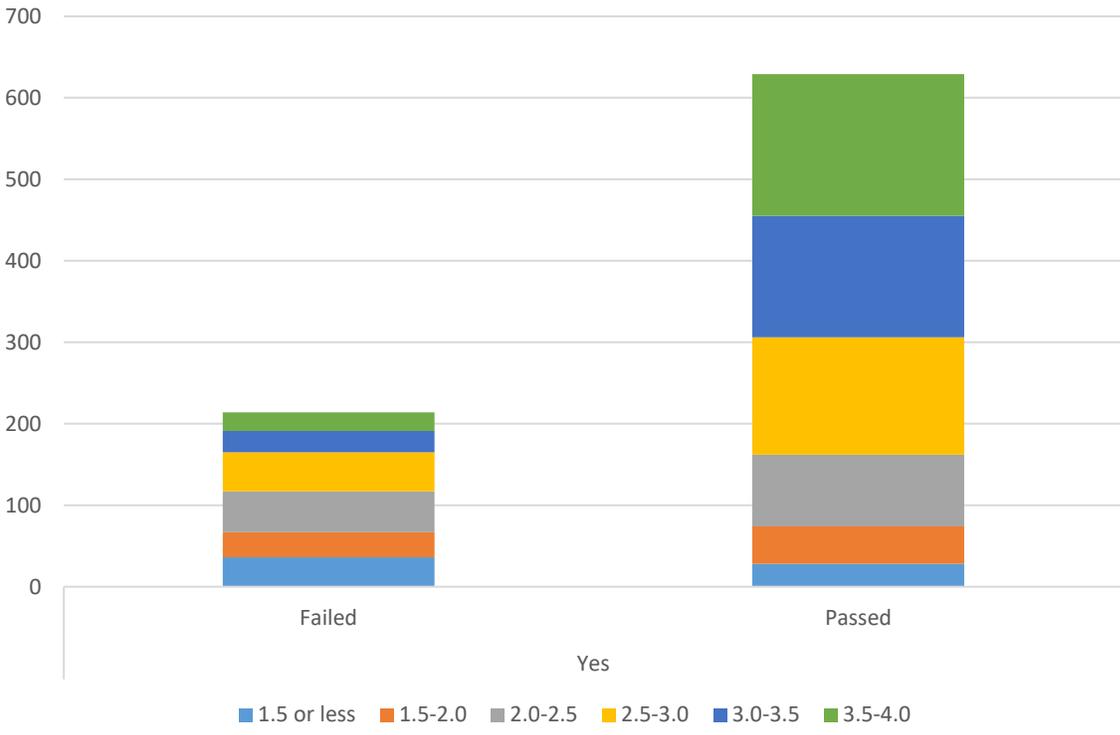
Grades were converted to a GPA type scale to perform the ANCOVA (A/P=4, B=3, C=2, D=1, F/FW/NP/DR/W/EW=0)

There was a significant effect of tutorial on grades after controlling for one previous year's GPA, $F=30.926$, $p<.01$. The effect size was small to medium ($d=0.304$).

Tutorial	Prior GPA	Success in Course
No	1.5 or less	35.6%
	1.5-2.0	45.7%
	2.0-2.5	52.2%
	2.5-3.0	62.4%
	3.0-3.5	73.5%
	3.5-4.0	83.1%
	Overall	66.4%
Yes	1.5 or less	58.1%
	1.5-2.0	68.5%
	2.0-2.5	69.2%
	2.5-3.0	78.5%
	3.0-3.5	79.3%
	3.5-4.0	88.8%
	Overall	79.3%

*Includes same enrollments as ANCOVA calculation

Attended tutorial- comparison of prior year GPA

Yes

Legend: 1.5 or less, 1.5-2.0, 2.0-2.5, 2.5-3.0, 3.0-3.5, 3.5-4.0

Did not attend tutorial- comparison of prior year GPA

No

Legend: 1.5 or less, 1.5-2.0, 2.0-2.5, 2.5-3.0, 3.0-3.5, 3.5-4.0