Research Question Two

The second research question asked whether students' perceived pre-course AER competency levels differed by number of AER courses previously taken. Table 1 displays the perceived AER competency means and standard deviations for students by number of graduate AER courses previously taken. An analysis of variance (ANOVA) was used to compare differences in mean Research Skills by number of courses previously taken; a statistically significant difference was found between groups, $F(3, 39) = 3.14$, $p < .05$. Tukey post hoc tests revealed that students who had completed one AER course had statistically significantly higher mean Research Skills than those who had completed no AER courses previously. There were no significant differences between other groups. ANOVA was used to compare differences in mean Research Values and mean Research Behaviors by number of courses previously taken; no statistically significant differences were found between groups.

Table 1

Perceived AER Competency by Previous Courses Taken

Factor	Participants	Perceived AER Competency	
	n	*M*	*SD*
Research Skills	**43**	**3.99**	**0.87**
0 Previous Courses	25	3.67*	0.87
1 Previous Course	10	4.45*	0.39
2 Previous Courses	3	4.17	0.29
3+ Previous Courses	5	4.54	1.25
Research Values	**43**	**5.16**	**0.52**
0 Previous Courses	25	5.22	0.48
1 Previous Course	10	4.88	0.53
2 Previous Courses	3	4.93	0.76
3+ Previous Courses	5	5.56	0.26
Research Behaviors	**43**	**3.91**	**0.82**
0 Previous Courses	25	3.89	0.86
1 Previous Course	10	3.78	0.92
2 Previous Courses	3	3.47	0.23
3+ Previous Courses	5	4.52	0.18

Note. $n = 43$, *$p < .05$