

Anatomy & Physiology 1 Grades Pre and Post-Prerequisite Change

Student level data from Anatomy & Physiology I (BIOL-157) was gathered to determine whether student outcomes improved following a prerequisite change. Prior to Fall 2013 the prerequisite for BIOL-157 was completion of BIOL-151, CHEM-150, or one year of either high school biology or chemistry. The prerequisite was changed to completion of BIOL-151 in Fall 2013. Grade outcomes on a 4.0 scale were compared between academic years 2010, 2011, and 2012 ($M = 2.37, SD = 1.20$) and academic years 2013, 2014, and 2015 ($M = 2.44, SD = 1.08$); results indicated no difference between groups, $p = .35$. However, across time periods course withdrawals decreased from 15.6% to 9.9%, and the number of students enrolled in BIOL-157 decreased by more than half, outpacing the overall decline in enrollment. Given the number of policy and economic changes at any given time, causal inference can be speculated but not attributed to non-experimental data such as these.

Grade in BIOL-157 Pre and Post-Prerequisite Change

Academic Year		Grade											Total	
		A	A-	B	B-	B+	C	C-	C+	D	D+	E		W
2010-2012	Count	159	0	270	0	0	240	0	0	99	0	85	158	1011
	%	15.7%	0.0%	26.7%	0.0%	0.0%	23.7%	0.0%	0.0%	9.8%	0.0%	8.4%	15.6%	100.0%
2013-2015	Count	61	11	119	19	7	109	13	9	41	4	27	46	466
	%	13.1%	2.4%	25.5%	4.1%	1.5%	23.4%	2.8%	1.9%	8.8%	0.9%	5.8%	9.9%	100.0%
Total	Count	220	11	389	19	7	349	13	9	140	4	112	204	1477
	%	14.9%	0.7%	26.3%	1.3%	0.5%	23.6%	0.9%	0.6%	9.5%	0.3%	7.6%	13.8%	100.0%