

# Supplemental Material

*CBE—Life Sciences Education*

Kiser *et al.*

**Table S1. Model selection, including AICc and Delta AICC values from best model for all models presented in Table 3.** Preferred model in bold.

Outcome	Model	Varying Intercept	AICc	Delta AICc (from best)	
Course Grade	<b>GPA + PreReq</b>	<b>None</b>	<b>2118.545</b>	<b>0</b>	
	GPA	None	2140.127	21.582	
	Null	None	2234.169	115.624	
	GPA + Pell * PreReq	None	2109.779	-1.071	
	<b>GPA + Pell + PreReq</b>	<b>None</b>	<b>2110.85</b>	<b>0</b>	
	GPA + PreReq	None	2115.136	4.286	
	GPA	None	2136.216	25.366	
	Null	None	2229.741	118.891	
	GPA + PEER * PreReq	None	1978.294	2.026	
	<b>GPA + PEER + PreReq</b>	<b>None</b>	<b>1976.268</b>	<b>0</b>	
	GPA + PreReq	None	1980.633	4.365	
	GPA	None	2003.48	27.212	
	Null	None	2098.284	122.016	
	GPA + FGN * PreReq	None	2119.487	0.942	
	GPA + FGN + PreReq	None	2117.505	-1.04	
	<b>GPA + PreReq</b>	<b>None</b>	<b>2118.545</b>	<b>0</b>	
	GPA	None	2140.127	21.582	
	Null	None	2234.169	115.624	
	GPA + Women * PreReq	None	2109.783	1.262	
	GPA + Women + PreReq	None	2110.464	1.943	
	<b>GPA + PreReq</b>	<b>None</b>	<b>2108.521</b>	<b>0</b>	
	GPA	None	2130.427	21.906	
	Null	None	2223.123	114.602	
	Probability of Passing	<b>GPA + PreReq</b>	<b>Instructor</b>	<b>740.7634</b>	<b>0</b>
		GPA	Instructor	758.1059	17.3425
		Null	Instructor	803.2197	62.4563
		<b>GPA + Pell * PreReq</b>	<b>Instructor</b>	<b>736.2029</b>	<b>0</b>
GPA + Pell + PreReq		Instructor	738.5405	2.3376	
GPA + PreReq		Instructor	739.381	3.1781	
GPA		Instructor	756.2132	20.0103	
Null		Instructor	800.9421	64.7392	
GPA + PEER * PreReq		Instructor	695.9693	1.9725	
<b>GPA + PEER + PreReq</b>		<b>Instructor</b>	<b>693.9968</b>	<b>0</b>	
GPA + PreReq		Instructor	696.0755	2.0787	
GPA		Instructor	715.2469	21.2501	
Null		Instructor	762.5255	68.5287	
GPA + FGN * PreReq		Instructor	743.3681	2.6047	
GPA + FGN + PreReq		Instructor	741.3909	0.6275	

	<b>GPA + PreReq</b>	<b>Instructor</b>	<b>740.7634</b>	<b>0</b>
	GPA	Instructor	758.1059	17.3425
	Null	Instructor	803.2197	62.4563
	GPA + Women * PreReq	Instructor	734.9882	-1.0842
	GPA + Women + PreReq	Instructor	738.051	1.9786
	<b>GPA + PreReq</b>	<b>Instructor</b>	<b>736.0724</b>	<b>0</b>
	GPA	Instructor	754.1649	18.0925
	Null	Instructor	798.9924	62.92
Course Grade	<b>PreReq</b>	<b>None</b>	<b>2596.397</b>	<b>0</b>
	Null	None	3365.237	768.84
	Pell * PreReq	None	2583.13	-1.105
	<b>Pell + PreReq</b>	<b>None</b>	<b>2584.235</b>	<b>0</b>
	PreReq	None	2588.487	4.252
	Pell	None	2607.789	23.554
	Null	None	2611.144	26.909
	PEER * PreReq	None	2406.397	0.737
	PEER + PreReq	None	2404.876	-0.784
	<b>PreReq</b>	<b>None</b>	<b>2405.66</b>	<b>0</b>
	PEER	None	2432.984	27.324
	Null	None	2432.893	27.233
	FGN * PreReq	None	2600.393	3.996
	FGN + PreReq	None	2596.986	0.589
	<b>PreReq</b>	<b>None</b>	<b>2596.397</b>	<b>0</b>
	FGN	None	2619.587	23.19
	Null	None	2620.033	23.636
	Women * PreReq	None	2571.597	1.449
	Women + PreReq	None	2571.073	0.925
	<b>PreReq</b>	<b>None</b>	<b>2570.148</b>	<b>0</b>
	Women	None	2596.657	26.509
	Null	None	2595.368	25.22
Probability of Passing	<b>PreReq</b>	<b>Section</b>	<b>912.9083</b>	<b>0</b>
	Null	Section	936.0769	23.1686
	<b>Pell * PreReq</b>	<b>Section</b>	<b>905.2955</b>	<b>0</b>
	Pell + PreReq	Section	908.3519	3.0564
	PreReq	Section	910.3579	5.0624
	Pell	Section	931.3388	26.0433
	Null	Section	932.5738	27.2783
	PEER * PreReq	Section	853.6565	1.507
	PEER + PreReq	Section	852.0752	-0.0743
	<b>PreReq</b>	<b>Section</b>	<b>852.1495</b>	<b>0</b>
	PEER	Section	878.4109	26.2614
	Null	Section	877.8395	25.69
	FGN * PreReq	Section	916.2478	3.3395

FGN + PreReq	Section	914.8637	1.9554
<b>PreReq</b>	<b>Section</b>	<b>912.9083</b>	<b>0</b>
FGN	Section	937.6628	24.7545
Null	Section	936.0769	23.1686
Women * PreReq	Section	900.287	-2.111
Women + PreReq	Section	904.091	1.693
<b>PreReq</b>	<b>Section</b>	<b>902.398</b>	<b>0</b>
Women	Section	929.5409	27.1429
Null	Section	927.6955	25.2975