

Table 3A.

Specific Direct and Indirect Paths [b(SE)] between Baseline Covariates, Skipping, and Academic Outcomes from the Final Model

Explanatory Variable	Mediating Path(s)	Outcome Variable	Specific Effect	Total Indirect	Total Effect
Male	<i>(Direct)</i>		3.860 (.655)		
	Marijuana intercept		.538 (.197)	.538 (.197)	4.398 (.679)
Depressive Symptoms	<i>(Direct)</i>		.181 (.078)	.036 (.022)	.218 (.082)
	Marijuana intercept		.036 (.022)		
Anxiety Symptoms	<i>(Direct)</i>		-.131 (.056)	-.026 (.013)	-.157 (.063)
	Marijuana intercept		-.026 (.013)		
Behavioral Dysregulation	<i>(Direct)</i>		.089 (.029)		a
Other Extracurricular Involvement	<i>(Direct)</i>		-.372 (.143)		
	Marijuana intercept	Skipping intercept	-.069 (.028)	-.069 (.028)	-.441 (.139)
Fraternity/Sorority Involvement	<i>(Direct)</i>		2.474 (.680)		a
Other Drug Use	<i>(Direct)</i>		.829 (.368)	1.027 (.308)	1.856 (.334)
	Marijuana intercept		1.027 (.308)		
Alcohol Frequency	Marijuana intercept		.099 (.033)	.099 (.033)	.099 (.033)
Alcohol Quantity	<i>(Direct)</i>		.330 (.121)		a
Parents' Education	<i>(Direct)</i>	Skipping slope	-.729 (.355)		a
Male	Skipping intercept		-.622 (.163)	-.708 (.173)	-.708 (.173)
	Marijuana intercept, Skipping intercept		-.087 (.035)		
White	<i>(Direct)</i>		3.279 (.417)		a
Parents' Education	<i>(Direct)</i>	GPA intercept	1.319 (.517)		a
Sensation-Seeking	<i>(Direct)</i>		-.400 (.085)		a

Explanatory Variable	Mediating Path(s)	Outcome Variable	Specific Effect	Total Indirect	Total Effect																																																																				
Depressive Symptoms	Skipping intercept	GPA	-.029 (.015)	-.035 (.016)	-.035 (.016)																																																																				
	Marijuana intercept, Skipping intercept		-.006 (.004)			Anxiety Symptoms	Skipping intercept	.021 (.011)	.025 (.011)	.025 (.011)	Marijuana intercept, Skipping intercept	.004 (.002)	Behavioral Dysregulation	Skipping intercept	-.014 (.005)	-.014 (.005)	-.014 (.005)	Living-Learning Program Involvement	<i>(Direct)</i>	2.199 (.361)		^a	Other Extracurricular Involvement	Skipping intercept	.060 (.027)	.071 (.027)	.071 (.027)	Marijuana intercept, Skipping intercept	.011 (.005)	Fraternity/Sorority Involvement	Skipping intercept	-.399 (.130)	-.399 (.130)	-.399 (.130)	Alcohol Quantity	Skipping intercept	-.053 (.024)	-.053 (.024)	-.053 (.024)	Alcohol Frequency	Marijuana intercept, Skipping intercept	-.016 (.006)	-.016 (.006)	-.016 (.006)	Other Drug Use	Skipping intercept	-.134 (.074)	-.299 (.079)	-.299 (.079)	Marijuana intercept, Skipping intercept	-.165 (.058)	Male	<i>(Direct)</i>	-.201 (.042)	.043 (.014)	-.158 (.044)	Marijuana intercept, Marijuana slope	-.006 (.004)	Skipping intercept, GPA intercept	.043 (.012)	Marijuana intercept, Skipping intercept, GPA intercept	.006 (.002)	White	<i>(Direct)</i>	.141 (.051)	-.228 (.037)	-.087 (.067)	GPA intercept	-.228 (.037)	Parents' Education	Skipping slope	.092 (.049)	.000 (.060)
Anxiety Symptoms	Skipping intercept		.021 (.011)	.025 (.011)	.025 (.011)																																																																				
	Marijuana intercept, Skipping intercept		.004 (.002)			Behavioral Dysregulation	Skipping intercept	-.014 (.005)	-.014 (.005)	-.014 (.005)	Living-Learning Program Involvement	<i>(Direct)</i>	2.199 (.361)		^a	Other Extracurricular Involvement	Skipping intercept	.060 (.027)	.071 (.027)	.071 (.027)	Marijuana intercept, Skipping intercept	.011 (.005)	Fraternity/Sorority Involvement	Skipping intercept	-.399 (.130)	-.399 (.130)	-.399 (.130)	Alcohol Quantity	Skipping intercept	-.053 (.024)	-.053 (.024)	-.053 (.024)	Alcohol Frequency	Marijuana intercept, Skipping intercept	-.016 (.006)	-.016 (.006)	-.016 (.006)	Other Drug Use	Skipping intercept	-.134 (.074)	-.299 (.079)	-.299 (.079)	Marijuana intercept, Skipping intercept	-.165 (.058)	Male	<i>(Direct)</i>	-.201 (.042)	.043 (.014)	-.158 (.044)	Marijuana intercept, Marijuana slope	-.006 (.004)		Skipping intercept, GPA intercept	.043 (.012)			Marijuana intercept, Skipping intercept, GPA intercept	.006 (.002)	White	<i>(Direct)</i>	.141 (.051)	-.228 (.037)	-.087 (.067)	GPA intercept	-.228 (.037)	Parents' Education	Skipping slope	.092 (.049)	.000 (.060)	.000 (.060)	GPA intercept	-.092 (.036)	
Behavioral Dysregulation	Skipping intercept		-.014 (.005)	-.014 (.005)	-.014 (.005)																																																																				
Living-Learning Program Involvement	<i>(Direct)</i>		2.199 (.361)		^a																																																																				
Other Extracurricular Involvement	Skipping intercept		.060 (.027)	.071 (.027)	.071 (.027)																																																																				
	Marijuana intercept, Skipping intercept		.011 (.005)			Fraternity/Sorority Involvement	Skipping intercept	-.399 (.130)	-.399 (.130)	-.399 (.130)	Alcohol Quantity	Skipping intercept	-.053 (.024)	-.053 (.024)	-.053 (.024)	Alcohol Frequency	Marijuana intercept, Skipping intercept	-.016 (.006)	-.016 (.006)	-.016 (.006)	Other Drug Use	Skipping intercept	-.134 (.074)	-.299 (.079)	-.299 (.079)	Marijuana intercept, Skipping intercept	-.165 (.058)	Male	<i>(Direct)</i>	-.201 (.042)	.043 (.014)	-.158 (.044)	Marijuana intercept, Marijuana slope	-.006 (.004)	Skipping intercept, GPA intercept	.043 (.012)	Marijuana intercept, Skipping intercept, GPA intercept	.006 (.002)	White	<i>(Direct)</i>	.141 (.051)	-.228 (.037)	-.087 (.067)	GPA intercept	-.228 (.037)	Parents' Education	Skipping slope	.092 (.049)	.000 (.060)	.000 (.060)	GPA intercept	-.092 (.036)																					
Fraternity/Sorority Involvement	Skipping intercept		-.399 (.130)	-.399 (.130)	-.399 (.130)																																																																				
Alcohol Quantity	Skipping intercept		-.053 (.024)	-.053 (.024)	-.053 (.024)																																																																				
Alcohol Frequency	Marijuana intercept, Skipping intercept		-.016 (.006)	-.016 (.006)	-.016 (.006)																																																																				
Other Drug Use	Skipping intercept		-.134 (.074)	-.299 (.079)	-.299 (.079)																																																																				
	Marijuana intercept, Skipping intercept		-.165 (.058)			Male	<i>(Direct)</i>	-.201 (.042)	.043 (.014)	-.158 (.044)	Marijuana intercept, Marijuana slope	-.006 (.004)	Skipping intercept, GPA intercept	.043 (.012)	Marijuana intercept, Skipping intercept, GPA intercept	.006 (.002)	White	<i>(Direct)</i>	.141 (.051)	-.228 (.037)	-.087 (.067)	GPA intercept	-.228 (.037)	Parents' Education	Skipping slope	.092 (.049)	.000 (.060)	.000 (.060)	GPA intercept	-.092 (.036)																																											
Male	<i>(Direct)</i>		-.201 (.042)	.043 (.014)	-.158 (.044)																																																																				
	Marijuana intercept, Marijuana slope		-.006 (.004)																																																																						
	Skipping intercept, GPA intercept		.043 (.012)																																																																						
	Marijuana intercept, Skipping intercept, GPA intercept		.006 (.002)																																																																						
White	<i>(Direct)</i>		.141 (.051)	-.228 (.037)	-.087 (.067)																																																																				
	GPA intercept		-.228 (.037)																																																																						
Parents' Education	Skipping slope		.092 (.049)	.000 (.060)	.000 (.060)																																																																				
	GPA intercept	-.092 (.036)																																																																							

Explanatory Variable	Mediating Path(s)	Outcome Variable	Specific Effect	Total Indirect	Total Effect
Sensation-Seeking	<i>(Direct)</i>	GPA slope	-.027 (.010)	.028 (.006)	.000 (.012)
	GPA intercept		.028 (.006)		
Depressive Symptoms	Marijuana intercept, Marijuana slope		.000 (.000)		
	Skipping intercept, GPA intercept		.002 (.001)	.002 (.001)	.002 (.001)
	Marijuana intercept, Skipping intercept, GPA intercept		.000 (.000)		
Anxiety Symptoms	Marijuana intercept, Marijuana slope		.000 (.000)		
	Skipping intercept, GPA intercept		-.001 (.001)	-.001 (.001)	-.001 (.001)
	Marijuana intercept, Skipping intercept, GPA intercept		.000 (.000)		
Behavioral Dysregulation	Skipping intercept, GPA intercept		.001 (.000)	.001 (.000)	.001 (.000)
Living-Learning Program Involvement	<i>(Direct)</i>		-.096 (.044)	-.153 (.030)	-.249 (.058)
	GPA intercept		-.153 (.030)		
Other Extracurricular Involvement	Marijuana intercept, Marijuana slope		.001 (.001)		
	Skipping intercept, GPA intercept		-.004 (.002)	-.004 (.002)	-.004 (.002)
	Marijuana intercept, Skipping intercept, GPA intercept		-.001 (.000)		
Fraternity/Sorority Involvement	Marijuana slope		-.015 (.009)		
	Skipping intercept, GPA intercept		.028 (.009)	.013 (.014)	.013 (.014)
	Marijuana slope		.017 (.011)		
Other Drug Use	Marijuana intercept, Marijuana slope		-.011 (.009)	.027 (.008)	.027 (.008)
	Skipping intercept, GPA intercept		.009 (.005)		
	Marijuana intercept, Skipping intercept, GPA intercept		.011 (.004)		
	Marijuana slope	.003 (.002)			
Alcohol Frequency	Marijuana intercept, Marijuana slope	-.001 (.001)	.003 (.001)	.003 (.001)	
	Marijuana intercept, Skipping intercept, GPA intercept	.001 (.000)			
	Marijuana slope	-.003 (.002)			
Alcohol Quantity	Skipping intercept, GPA intercept	.004 (.002)	.001 (.003)	.001 (.003)	

Explanatory Variable	Mediating Path(s)	Outcome Variable	Specific Effect	Total Indirect	Total Effect
Male	Skipping intercept	Time to Graduation	.026 (.013)	.159 (.032)	.159 (.032)
	GPA slope		.097 (.029)		
	Marijuana intercept, Skipping intercept		.004 (.002)		
	Skipping intercept, GPA intercept		.047 (.013)		
	Marijuana intercept, Skipping intercept, GPA intercept		.007 (.003)		
	Marijuana intercept, Marijuana slope, GPA slope		.003 (.002)		
	Skipping intercept, GPA intercept, GPA slope		-.021 (.007)		
White	Marijuana intercept, Skipping intercept, GPA intercept, GPA slope	-.003 (.001)			
	GPA intercept	-.247 (.043)			
	GPA slope	-.068 (.030)	-.205 (.033)	-.205 (.033)	
Parents' Education	GPA intercept, GPA slope	.109 (.029)			
	Skipping slope	.048 (.028)	-.051 (.026)	-.051 (.026)	
	GPA intercept	-.099 (.039)			
Skipping slope, GPA slope	-.044 (.026)				
Sensation-Seeking	GPA intercept, GPA slope	.044 (.019)			
	GPA intercept	.030 (.007)	.030 (.006)	.030 (.006)	
	GPA slope	.013 (.005)			
GPA intercept, GPA slope	-.013 (.004)				
Depressive Symptoms	Skipping intercept	.001 (.001)	.003 (.001)	.003 (.001)	
	Marijuana intercept, Skipping intercept	.000 (.000)			
	Skipping intercept, GPA intercept	.002 (.001)			
	Marijuana intercept, Skipping intercept, GPA intercept	.000 (.000)			
	Marijuana intercept, Marijuana slope, GPA slope	.000 (.000)			
	Skipping intercept, GPA intercept, GPA slope	-.001 (.001)			
Marijuana intercept, Skipping intercept, GPA intercept, GPA slope	.000 (.000)				

Explanatory Variable	Mediating Path(s)	Outcome Variable	Specific Effect	Total Indirect	Total Effect
Anxiety Symptoms	Skipping intercept	Time to Graduation	-.001 (.001)	-.002 (.001)	-.002 (.001)
	Marijuana intercept, Skipping intercept		.000 (.000)		
	Skipping intercept, GPA intercept		-.002 (.001)		
	Marijuana intercept, Skipping intercept, GPA intercept		.000 (.000)		
	Marijuana intercept, Marijuana slope, GPA slope		.000 (.000)		
	Skipping intercept, GPA intercept, GPA slope		.001 (.000)		
	Marijuana intercept, Skipping intercept, GPA intercept, GPA slope		.000 (.000)		
Behavioral Dysregulation	Skipping intercept	.001 (.000)	.001 (.000)	.001 (.000)	
	Skipping intercept, GPA intercept	.001 (.000)			
	Skipping intercept, GPA intercept, GPA slope	.000 (.000)			
Living-Learning Program Involvement	GPA intercept	-.166 (.032)	-.046 (.026)	-.046 (.026)	
	GPA slope	.046 (.023)			
	GPA intercept, GPA slope	.073 (.019)			
Other Extracurricular Involvement	Skipping intercept	-.003 (.002)	-.006 (.002)	-.006 (.002)	
	Marijuana intercept, Skipping intercept	.000 (.000)			
	Skipping intercept, GPA intercept	-.005 (.002)			
	Marijuana intercept, Skipping intercept, GPA intercept	-.001 (.000)			
	Marijuana intercept, Marijuana slope, GPA slope	.000 (.000)			
	Skipping intercept, GPA intercept, GPA slope	.002 (.001)			
	Marijuana intercept, Skipping intercept, GPA intercept, GPA slope	.000 (.000)			
Fraternity/Sorority Involvement	Skipping intercept	.017 (.009)	.041 (.012)	.041 (.012)	
	Skipping intercept, GPA intercept	.030 (.010)			
	Marijuana slope, GPA slope	.007 (.005)			
	Skipping intercept, GPA intercept, GPA slope	-.013 (.005)			

Explanatory Variable	Mediating Path(s)	Outcome Variable	Specific Effect	Total Indirect	Total Effect
Other Drug Use	Skipping intercept	Time to Graduation	.006 (.004)	.022 (.008)	.022 (.008)
	Marijuana intercept, Skipping intercept		.007 (.004)		
	Skipping intercept, GPA intercept		.010 (.006)		
	Marijuana slope, GPA slope		-.008 (.006)		
	Marijuana intercept, Skipping intercept, GPA intercept		.012 (.005)		
	Marijuana intercept, Marijuana slope, GPA slope		.005 (.005)		
	Skipping intercept, GPA intercept, GPA slope		-.004 (.003)		
	Marijuana intercept, Skipping intercept, GPA intercept, GPA slope	-.006 (.002)			
Alcohol Frequency	Marijuana intercept, Skipping intercept		.001 (.000)	.001 (.001)	.001 (.001)
	Marijuana slope, GPA slope		-.001 (.001)		
	Marijuana intercept, Skipping intercept, GPA intercept		.001 (.000)		
	Marijuana intercept, Marijuana slope, GPA slope		.001 (.000)		
	Marijuana intercept, Skipping intercept, GPA intercept, GPA slope		-.001 (.000)		
Alcohol Quantity	Skipping intercept		.002 (.001)	.006 (.002)	.006 (.002)
	Skipping intercept, GPA intercept		.004 (.002)		
	Marijuana slope, GPA slope		.002 (.001)		
	Skipping intercept, GPA intercept, GPA slope		-.002 (.001)		

Note. Statistically significant results ($p < .05$) are shown in **bold**. All paths [$b(SE)$] are structure coefficients. All direct paths were estimated by maximum likelihood methods, while the direct and total effects were estimated using Monte Carlo bootstrapping estimation. See text for details. Results adjusted for all effects in the final model, including those shown in Figure 2 and Table 3.