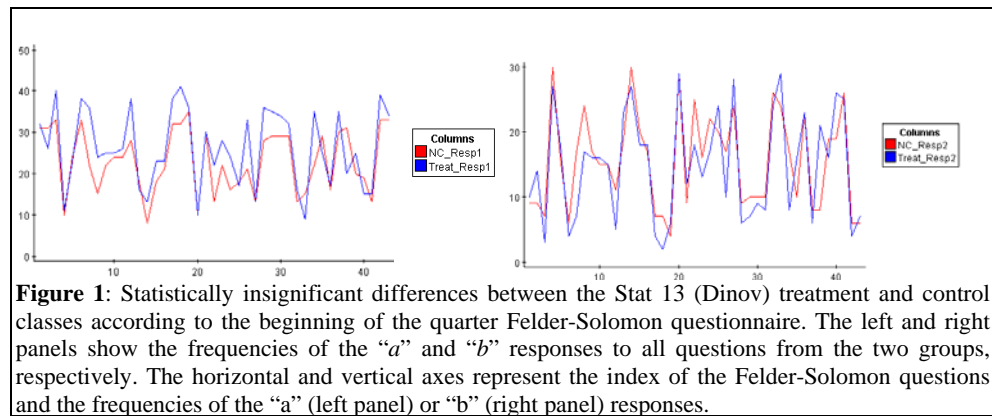


a. *Statistical Methods for the Life and Health Sciences* (Stat 13(1 & 2), Dinov)

Table 2: Stat 13 Student Demographics (at the end of the quarter).

Demographics	Stat13 section1 Control	Stat13 section 2 Treatment
Freshmen	24	7
Sophomores	18	14
Juniors	16	38
Seniors	23	29
Graduates	2	0
Total	83	88



When comparing the treatment and control group’s responses to the Felder-Solomon Index of Learning Styles questionnaire (Felder, 1988; Felder, 2003) we got a chi-square statistic $\chi^2_o = 46.85 \sim \chi^2(42)$ which yields a p-value of 0.28 (we had only compared the normalized raw frequencies of “a” responses to these 44 dichotomous questions between the two groups).

Table 3: Quantitative Results measuring student learning in the two groups of Dinov’s Stat 13 courses.

	Group	High	Low	Median	Mean	Standard Deviation	Statistics
Midterm	Control	10 0	53	84. 33	83.9	10	$t_o = 1.37$ $t(169)$ $p=0.089$
	Treatment	10 0	58	88	86	10	
Final	Control	10 0	42	83	81.2	13	$t_o = 1.34$ $t(169)$ $p=0.093$
	Treatment	99	35	87	83.8	12	
Overall Performance	Control	96.89	53.6	86.82	84.57	9.1	$t_o = 1.448$ $t(169)$ $p=0.075$
	Treatment	98.05	42.32	88.26	86.68	9.9	

b. *Introduction to Probability* (UCLA 100A(3) and 100A(4), Sanchez)

Table 4: Demographics of the two groups with all students included in Stat 100A (Sanchez)

Group	Major (%)	Class (%)
Treatment (n=20) 9:00-9:50 AM	Math 15 Applied Math 5 Math/Ec 35 Math-app 25 Anth(G) 5 Gen(G) 5 AtSci(G) 5 Unex 5	Junior 65 Senior 15 GD1 15 Other 5
Control (n=39) 11:00-11:50 AM	Math 5.1 Appl.Math 2.5 Math/Ec 20.5 Math-app 5.1 PrBEco 2.5 Biost(G) 33 Engineer 18 Mech(G) 2.5 Mph(G) 5.1 Bioch 2.5 Unex 2.5	Junior 28 Senior 28 GD1 2.5 GD2 5.1 GMT 33 Other 2.5

Table 5: Quantitative Results measuring student learning in the two groups of Sanchez's Stat 100A courses.

	Group	High	Low	Median	Mean	Standard Deviation	Statistics
Midterm	Control	34	17.5	26.5	26.19	4.65	$t_0 = 0.63$ $t(38) p > 0.2$
	Treatment	33	17.5	28.5	27.08	4.25	
Homework	Control	19.74	4.69	16.92	15.76	4.44	$t_0 = 0.64$ $t(16) p > 0.2$
	Treatment	19.07	13.39	16.41	16.41	1.73	
Final	Control	37.2	18.4	29.4	28.48	5.31	$t_0 = 0.49$ $t(38) p > 0.2$
	Treatment	36.9	22.5	29.40	29.23	4.30	
Overall Performance	Control	90.55	43.19	71.22	70.45	12.24	$t_0 = 0.71$ $t(38) p > 0.2$
	Treatment	84.89	58.42	72.44	72.73	8.08	

c. *Probability and Statistics* (UCLA 100A(1), Christou)

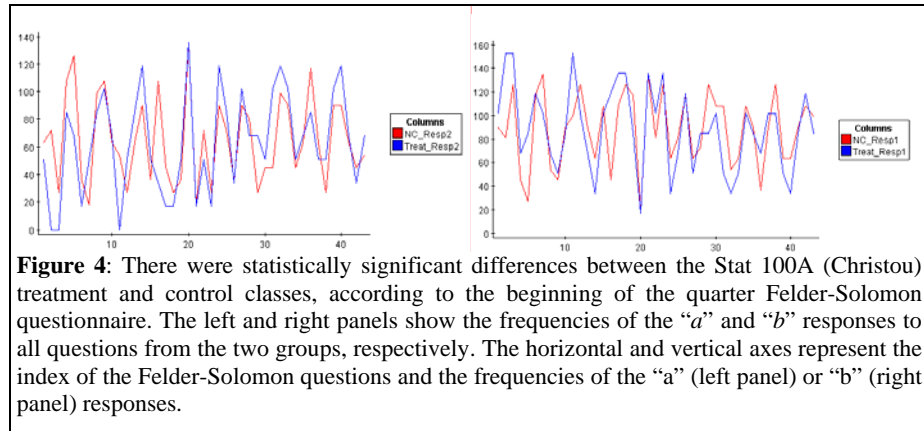


Table 6: Student Demographics for the Stat 100A class (Christou)

Majors	Stat 100A control group	Stat 100A treatment group
Mathematics	25	8
Statistics	2	1
BioStatistics	3	0
BioChem	2	0
Psycho-bio	0	1
Sociology	0	1
Business Econ	1	0
Total	33	11

Table 7: Quantitative Results measuring student learning in the two groups of Christou's Stat 100A course.

	Group	High	Low	Median	Mean	Standard Deviation	Statistics
Quiz1	Control	96	41	70	72.61	16.84	$t_0 = 2.644$ $t(42)$ $p=0.0058$
	Treatment	100	58	93	87.67	14.72	
Quiz2	Control	100	32	73	72.61	16.78	$t_0 = 2.063$ $t(42)$ $p<0.0227$
	Treatment	100	58	89	84.11	13.25	
Exam1	Control	100	40	89	85.74	13.64	$t_0=0.7617$ $t(42)$ $p=0.225$
	Treatment	100	47	96	89.56	16.62	
Exam2	Control	100	36	80	80.23	15.98	$t_0=1.342$ $t(42)$ $p= 0.0935$
	Treatment	100	68	88	87.22	11.09	
Exam3	Control	100	46	82	82.45	14.13	$t_0=0.2725$ $t(42)$ $p=0.3933$
	Treatment	100	60	88	83.78	13.66	
Overall Performance	Control	94.31	44.93	80.09	80.23	11.87	$t_0=1.606$ $t(42)$ $p=0.058$
	Treatment	96.26	60.65	90.59	86.76	11.06	