

Spring 2016 – Report on Academic Performance of Supplemental Instruction Students

■ **Summary**

This report presents course outcomes data related to students enrolled in **spring 2016** sections that provided supplemental instruction (SI). **SI in spring 2016** was funded through the college's **BSI Grant, Title V Velocidad Grant, and other sources**.

- SI was offered in **62** sections (**22** courses).
- Of the **2,428** graded students in SI sections, **763 (31%)** received SI services.

Three methods for assessing the success of SI are discussed in this report. All of the metrics are based on final grades, with **successful** or **non-successful** completion as the outcome variable. A successful completion is defined as a final grade of **A, B, C or P**.

● **Success in SI Sections versus Success in Non-SI Sections** (Pages 2 - 4)

This measure compares the overall success rate in **all SI** sections of a course to the overall success rate in **all non-SI** sections of the course. A chart and a data table appear on pages 2 - 4.

● **Success Rates within SI Sections** (Page 5 and 6)

Students in SI sections are afforded the opportunity to receive academic assistance from an SI Leader. This metric compares success rates of students who received SI assistance to success rates of students who did not receive SI assistance. Data tables are presented on pages 5 and 6.

● **Success Rates in SI Sections – By Number of SI Contacts** (Pages 7 and 8)

In this assessment, success rates in SI sections are computed as a function of the number of contacts that students have with an SI Leader (SI contacts). Of the three metrics presented in this report, this one provides the best evidence that SI is contributing to successful course completions.

Student Demographics: Success rates by student demographics are presented on page 7.

Success Rates by Number of SI Contacts

The tables below show success rate data for **spring 2016** and **spring 2015**. In both terms, students who had **six or more** contacts with SI Leaders had significantly higher success rates than students with **five or less** SI contacts. Unfortunately, only **7%** of the students in **spring 2106** SI classes had **six or more** contacts with SI Leaders (in spring 2015, it was **20%**).

Spring 2016

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,665	1,161	69.7%
1 to 5	594	464	78.1%
6 to 10	102	88	86.3%
11 to 15	29	26	89.7%
16 to 20	16	14	87.5%
21 to 29	17	17	100.0%
30 or more	5	5	100.0%
Totals	2,428	1,775	73.1%

0 to 5	2,259	1,625	71.9%
6 or more	169	150	88.8%
Difference in percentage points			16.9

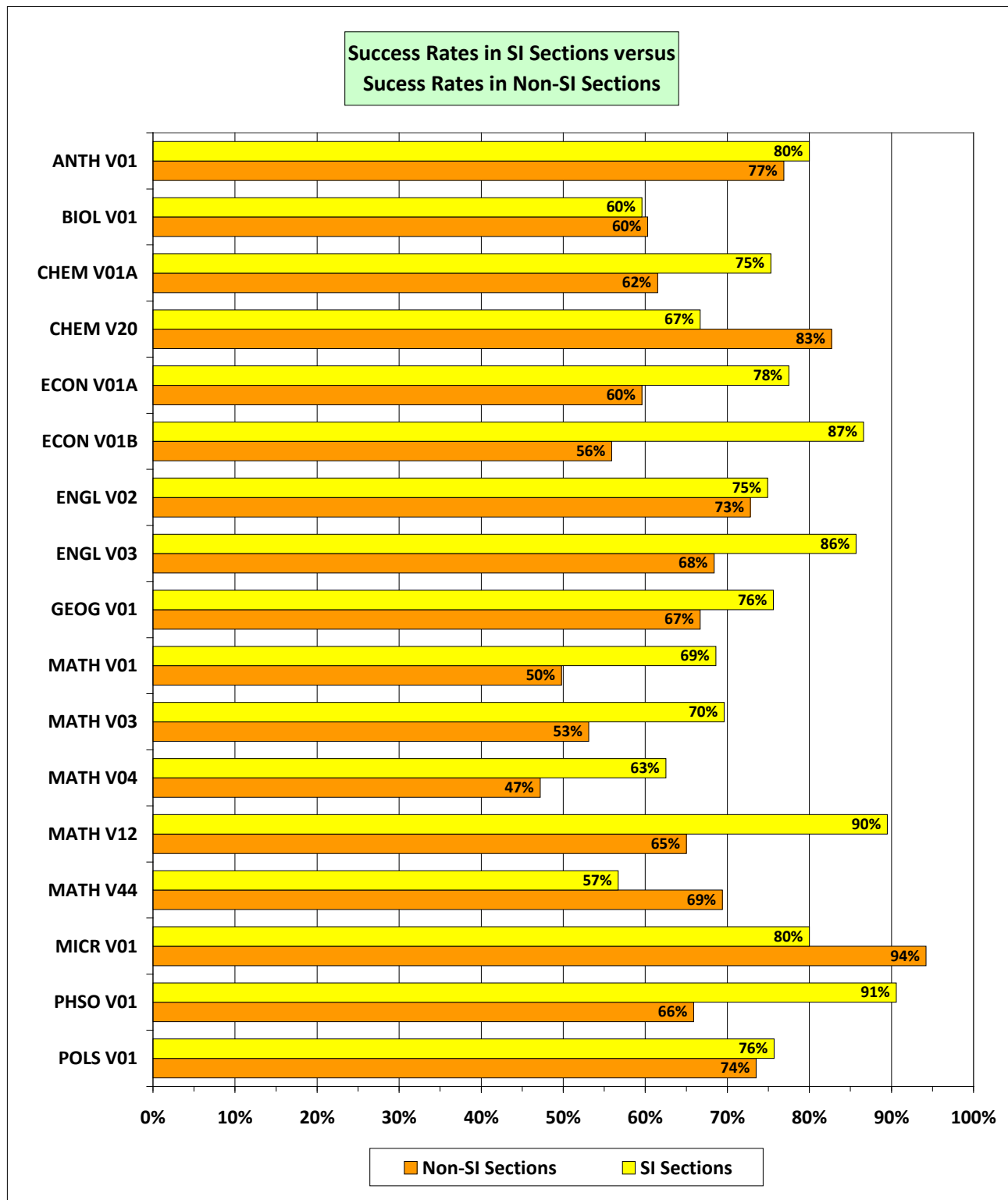
Spring 2015

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,016	576	56.7%
1 to 5	481	315	65.5%
6 to 10	125	99	79.2%
11 to 15	87	69	79.3%
16 to 20	20	12	60.0%
21 to 29	28	20	71.4%
30 or more	107	68	63.6%
Totals	1,864	1,159	62.2%

0 to 5	1,497	891	59.5%
6 or more	367	268	73.0%
Difference in percentage points			14.5

■ **Success in SI Sections versus Success in Non-SI Sections**

The chart below and table (pages 3 and 4) present **success rates** and **grades distributions** for two sets of courses: **SI Sections** (sections in which SI was offered) **and Non-SI Sections** (sections in which SI was **not** offered). Differences between success rates are rendered in percentage points.



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SI Sections versus Non-SI Sections – Success Rates and Grades Distributions

Course ID	SI Status	Total Cnt	Successful		Grades Distributions							
			Num.	Rate	A	B	C	P	D	F	NP	W
ANTH V01	Yes	240	192	80.0%	99	46	47		14	8		26
ANTH V01	No	52	40	76.9%	19	16	5			5		7
Difference: SI minus Non-SI				3.1								
ANTH V04	Yes	7	6	85.7%	4		2			1		
	--											
Difference: SI minus Non-SI				--								
BIOL V01	Yes	47	28	59.6%	5	10	13		5	6		8
BIOL V01	No	624	376	60.3%	133	124	119		53	84		111
Difference: SI minus Non-SI				-0.7								
CHEM V01A	Yes	166	125	75.3%	62	45	18		7	16		18
CHEM V01A	No	52	32	61.5%	4	20	8		5	4		11
Difference: SI minus Non-SI				13.8								
CHEM V20	Yes	108	72	66.7%	34	21	17		7	10		19
CHEM V20	No	81	67	82.7%	26	20	21		5	5		4
Difference: SI minus Non-SI				-16.0								
CHEM V21	Yes	33	30	90.9%	12	15	3			1		2
	--											
Difference: SI minus Non-SI				--								
ECON V01A	Yes	80	62	77.5%	14	23	25		11			7
ECON V01A	No	319	190	59.6%	59	64	67		49	27		53
Difference: SI minus Non-SI				17.9								
ECON V01B	Yes	82	71	86.6%	10	27	34		5	1		5
ECON V01B	No	222	124	55.9%	29	45	50		47	11		40
Difference: SI minus Non-SI				30.7								
ENGL V02	Yes	251	188	74.9%	76	57	55		11	25		27
ENGL V02	No	294	214	72.8%	93	73	48		15	31		34
Difference: SI minus Non-SI				2.1								
ENGL V03	Yes	49	42	85.7%				42			7	
ENGL V03	No	136	93	68.4%				93			22	21
Difference: SI minus Non-SI				7.3								
GEOG V01	Yes	390	295	75.6%	85	122	88		23	43		29
GEOG V01	No	36	24	66.7%	4	7	13		1	1		10
Difference: SI minus Non-SI				8.9								
MATH V01	Yes	35	24	68.6%	16	6	2		2	7		2
MATH V01	No	733	365	49.8%	149	113	102	1	75	108	1	184
Difference: SI minus Non-SI				18.8								
MATH V03	Yes	56	39	69.6%	20	11	8		8	7		2
MATH V03	No	693	368	53.1%	106	128	133	1	64	89	1	171
Difference: SI minus Non-SI				16.5								
MATH V04	Yes	120	75	62.5%	30	22	23		8	9		28
MATH V04	No	248	117	47.2%	33	44	40		33	28		70
Difference: SI minus Non-SI				15.3								
MATH V12	Yes	19	17	89.5%	9	3	5		1			1
MATH V12	No	123	80	65.0%	24	28	26	2	6	10		27
Difference: SI minus Non-SI				24.5								

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SI Sections versus Non-SI Sections – Success Rates and Grades Distributions

(Begins on previous page)

Course ID	SI Status	Total Cnt	Successful		Grades Distributions							
			Num.	Rate	A	B	C	P	D	F	NP	W
MATH V13B	Yes	37	28	75.7%	5	11	11	1	3	2		4
	--											
Difference: SI minus Non-SI				--								
MATH V20	Yes	104	55	52.9%	26	13	15	1	5	22		22
	--											
Difference: SI minus Non-SI				--								
MATH V21A	Yes	158	90	57.0%	33	33	24		12	17		39
	--											
Difference: SI minus Non-SI				--								
MATH V44	Yes	90	51	56.7%	17	15	19		3	6		30
MATH V44	No	496	344	69.4%	144	105	95		28	50		74
Difference: SI minus Non-SI				-12.7								
MICR V01	Yes	65	52	80.0%	19	24	9		3	1		9
MICR V01	No	52	49	94.2%	25	16	8					3
Difference: SI minus Non-SI				-14.2								
PHSO V01	Yes	85	77	90.6%	28	36	13		1	2		5
PHSO V01	No	132	87	65.9%	27	26	34		6	13		26
Difference: SI minus Non-SI				24.7								
POLS V01	Yes	206	156	75.7%	60	64	32		23	18		9
POLS V01	No	430	316	73.5%	152	89	74	1	9	32		73
Difference: SI minus Non-SI				2.2								
Total SI *	Yes	2,089	1,566	75.0%	584	532	408	42	132	159	7	225
Total Non-SI	No	4,723	2,886	61.1%	1,027	918	843	98	396	498	24	919
Difference: SI minus Non-SI				13.9								

* **Total SI excludes** the following courses, since **all** sections of these courses were offered as SI.

Course	Total Count	Successful
ANTH V04	7	6
CHEM V21	33	30
MATH V13B	37	28
MATH V20	104	55
MATH V21A	158	90
Totals	339	209

Spring 2016 grades were extracted from Banner on **May 31, 2016**.

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■ **Success Rates within SI Sections**

Students in SI sections have the opportunity to receive academic assistance from the SI Leader assigned to their class. In the table below, the success rates of students receiving SI services are compared to the students who did not participate in SI (Non-SI students).

In **SI sections**, the **overall** success rate for **SI** students was **16%** higher than that of **Non-SI** students.

Group	Success Rate	Percent Difference	Computation
Students participating in SI	81%	---	---
Students not participating in SI	70%	---	---
Difference	11 points	16%	(11 ÷ 70) x 100

Course Information				Total Students		Non-SI Students			SI Students		
						Total	Successful		Total	Successful	
Course ID	CRN	Units	Instructor	N	S/R*	N	N	Rate	N	N	Rate
ANTH V01		3.0		35	71%	30	20	67%	5	5	100%
ANTH V01		3.0		43	79%	39	30	77%	4	4	100%
ANTH V01		3.0		24	67%	21	13	62%	3	3	100%
ANTH V01		3.0		16	63%	12	7	58%	4	3	75%
ANTH V01		3.0		56	86%	55	47	85%	1	1	100%
ANTH V01		3.0		22	77%	22	17	77%			
ANTH V01		3.0		27	96%	22	21	95%	5	5	100%
ANTH V01		3.0		17	94%	16	15	94%	1	1	100%
Totals and Overall Success Rates				240	80%	217	170	78%	23	22	96%
ANTH V04		3.0		7	86%	6	5	83%	1	1	100%
BIOL V01		3.0		47	60%	36	20	56%	11	8	73%
CHEM V01A		3.0		85	85%	69	57	83%	16	15	94%
CHEM V01A		3.0		81	65%	52	33	63%	29	20	69%
Totals and Overall Success Rates				166	75%	121	90	74%	45	35	78%
CHEM V20		4.0		55	53%	42	25	60%	13	4	31%
CHEM V20		4.0		53	81%	33	26	79%	20	17	85%
Totals and Overall Success Rates				108	67%	75	51	68%	33	21	64%
CHEM V21		3.0		33	91%	19	16	84%	14	14	100%
ECON V01A		3.0		80	78%	46	33	72%	34	29	85%
ECON V01B		3.0		82	87%	44	34	77%	38	37	97%
ENGL V02		5.0		30	77%	17	12	71%	13	11	85%
ENGL V02		5.0		28	79%	2	0	0%	26	22	85%
ENGL V02		5.0		27	67%	19	11	58%	8	7	88%
ENGL V02		5.0		28	75%	22	15	68%	6	6	100%
ENGL V02		5.0		29	66%	14	8	57%	15	11	73%
ENGL V02		5.0		30	67%	1	0	0%	29	20	69%
ENGL V02		5.0		24	54%	13	5	38%	11	8	73%
ENGL V02		5.0		27	93%	22	20	91%	5	5	100%
ENGL V02		5.0		28	96%	12	11	92%	16	16	100%
Totals and Overall Success Rates				251	75%	122	82	67%	129	106	82%
ENGL V03		5.0		27	81%				27	22	81%
ENGL V03		5.0		22	91%	14	12	86%	8	8	100%
Totals and Overall Success Rates				49	86%	14	12	86%	35	30	86%

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Course Information				Total Students		Non-SI Students			SI Students		
						Total	Successful		Total	Successful	
Course ID	CRN	Units	Instructor	N	S/R*	N	N	Rate	N	N	Rate
GEOG V01		3.0		59	81%	54	43	80%	5	5	100%
GEOG V01		3.0		69	71%	67	47	70%	2	2	100%
GEOG V01		3.0		70	70%	58	39	67%	12	10	83%
GEOG V01		3.0		60	78%	39	27	69%	21	20	95%
GEOG V01		3.0		32	78%	30	24	80%	2	1	50%
GEOG V01		3.0		53	81%	51	41	80%	2	2	100%
GEOG V01		3.0		47	72%	42	29	69%	5	5	100%
Totals and Overall Success Rates				390	76%	341	250	73%	49	45	92%
MATH V01		5.0		35	69%	24	16	67%	11	8	73%
MATH V03		5.0		29	69%	18	12	67%	11	8	73%
MATH V03		5.0		27	70%	27	19	70%			
Totals and Overall Success Rates				56	70%	45	31	69%	11	8	73%
MATH V04		4.0		40	70%	40	28	70%	31	21	68%
MATH V04		4.0		41	51%	10	0	0%	31	21	68%
MATH V04		4.0		39	67%	27	16	59%	12	10	83%
Totals and Overall Success Rates				120	63%	77	44	57%	43	31	72%
MATH V12		3.0		19	89%	13	11	85%	6	6	100%
MATH V13B		3.0		37	76%	32	23	72%	5	5	100%
MATH V20		5.0		37	68%	23	15	65%	14	10	71%
MATH V20		5.0		42	48%	18	6	33%	24	14	58%
MATH V20		5.0		25	40%	3	0	0%	22	10	45%
Totals and Overall Success Rates				104	53%	44	21	48%	60	34	57%
MATH V21A		5.0		43	60%	27	13	48%	16	13	81%
MATH V21A		5.0		38	39%	18	6	33%	20	9	45%
MATH V21A		5.0		33	55%	26	14	54%	7	4	57%
MATH V21A		5.0		44	70%	36	25	69%	8	6	75%
Totals and Overall Success Rates				158	57%	107	58	54%	51	32	63%
MATH V44		4.0		35	74%	25	17	68%	10	9	90%
MATH V44		4.0		17	53%	14	6	43%	3	3	100%
MATH V44		4.0		38	42%	21	6	29%	17	10	59%
Totals and Overall Success Rates				90	57%	60	29	48%	30	22	73%
MICR V01		4.0		22	82%	12	9	75%	10	9	90%
MICR V01		4.0		25	80%	10	7	70%	15	13	87%
MICR V01		4.0		18	78%	10	8	80%	8	6	75%
Totals and Overall Success Rates				65	80%	32	24	75%	33	28	85%
PHSO V01		4.0		32	97%	11	11	100%	21	20	95%
PHSO V01		4.0		27	89%	7	5	71%	20	19	95%
PHSO V01		4.0		26	85%	12	8	67%	14	14	100%
Totals and Overall Success Rates				85	91%	30	24	80%	55	53	96%
POLS V01		3.0		72	78%	53	39	74%	19	17	89%
POLS V01		3.0		70	79%	58	45	78%	12	10	83%
POLS V01		3.0		64	70%	49	33	67%	15	12	80%
Totals and Overall Success Rates				206	76%	160	117	73%	46	39	85%
Totals & Overall Success Rates				2,428	73%	1,665	1,161	70%	763	614	81%

* S/R = Success Rate for a specific course section (CRN) or group of courses.

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■ **Success Rates in SI Sections – By Demographics**

Student Demographics	Total Student Enrollments		Non-SI Participants			SI Participants		
	Num.	Perct	Total Num.	Successful		Total Num.	Successful	
				Number	Rate		Number	Rate
Ethnicity								
Asian	127	5.2%	89	65	73.0%	38	34	89.5%
Black	68	2.8%	52	41	78.8%	16	12	75.0%
Hispanic	1,493	61.5%	1,005	672	66.9%	488	382	78.3%
Native American	8	0.3%	5	5	100.0%	3	2	66.7%
Pacific Islander	4	0.2%	2	0	0.0%	2	2	100.0%
Multi- Ethnic	92	3.8%	63	45	71.4%	29	24	82.8%
White	617	25.4%	433	324	74.8%	184	155	84.2%
Unreported	19	0.8%	16	9	56.3%	3	3	100.0%
Totals and Rates	2,428	100.0%	1,665	1,161	69.7%	763	614	80.5%
Gender								
Female	1,263	52.0%	835	586	70.2%	428	361	84.3%
Male	1,132	46.6%	806	555	68.9%	326	245	75.2%
Unreported	33	1.4%	24	20	83.3%	9	8	88.9%
Totals and Rates	2,428	100.0%	1,665	1,161	69.7%	763	614	80.5%
Age (in years)								
17 or younger	66	2.7%	46	39	84.8%	20	20	100.0%
18 – 22	1,707	70.3%	1,190	830	69.7%	517	409	79.1%
23 – 29	453	18.7%	315	211	67.0%	138	110	79.7%
30 – 39	125	5.1%	71	55	77.5%	54	44	81.5%
40 or older	77	3.2%	43	26	60.5%	34	31	91.2%
Totals and Rates	2,428	100.0%	1,665	1,161	69.7%	763	614	80.5%

■ **Success Rates in SI Sections – By Number of SI Contacts**

The tables in this section present data related to success rates **based** on the number of SI contacts. Tables A and B display summary data for all sections in which SI was offered. Table C (page 8) provides success rates by course and number of SI contacts (i.e., **0 to 5** contacts versus **6 or more** contacts).

Table A. All Students in SI sections

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,665	1,161	69.7%
1 to 5	594	464	78.1%
6 to 10	102	88	86.3%
11 to 15	29	26	89.7%
16 to 20	16	14	87.5%
21 to 29	17	17	100.0%
30 or more	5	5	100.0%
Totals	2,428	1,775	73.1%

0 to 5	2,259	1,625	71.9%
6 or more	169	150	88.8%
Difference in percentage points			16.9

Table B. Hispanic Students in SI Sections

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,005	672	66.9%
1 to 5	383	291	76.0%
6 to 10	59	49	83.1%
11 to 15	21	19	90.5%
16 to 20	12	10	83.3%
21 to 29	9	9	100.0%
30 or more	4	4	100.0%
Totals	1,493	1,054	70.6%

0 to 5	1,388	963	69.4%
6 or more	105	91	86.7%
Difference in percentage points			17.3

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Table C. Students in SI Sections: Summary of Success by Course and Number of SI Contacts

Courses	All Students			0 to 5 SI Contacts		6/more SI Contacts		Difference	
	Total Studnts	Successful		Total Studnts	<u>A</u>	Total Studnts	<u>B</u>	<u>B minus A</u>	Percent Differ*
		Count	Rate		Success Rate		Success Rate		
ANTH V01	240	192	80.0%	235	79.6%	5	100.0%	20.4	25.7%
ANTH V04	7	6	85.7%	7	85.7%	0			
BIOL V01	47	28	59.6%	39	53.8%	8	87.5%	33.7	62.5%
CHEM V01A	166	125	75.3%	157	74.5%	9	88.9%	14.4	19.3%
CHEM V20	108	72	66.7%	100	66.0%	8	75.0%	9.0	13.6%
CHEM V21	33	30	90.9%	30	90.0%	3	100.0%	10.0	11.1%
ECON V01A	80	62	77.5%	74	75.7%	6	100.0%	24.3	32.1%
ECON V01B	82	71	86.6%	74	85.1%	8	100.0%	14.9	17.5%
ENGL V02	251	188	74.9%	234	74.8%	17	76.5%	1.7	2.3%
ENGL V03	49	42	85.7%	43	83.7%	6	100.0%	16.3	19.4%
GEOG V01	390	295	75.6%	376	75.0%	14	92.9%	17.9	23.8%
MATH V01	35	24	68.6%	33	66.7%	2	100.0%	33.3	50.0%
MATH V03	56	39	69.6%	54	70.4%	2	50.0%	-20.4	-28.9%
MATH V04	120	75	62.5%	113	60.2%	7	100.0%	39.8	66.2%
MATH V12	19	17	89.5%	16	87.5%	3	100.0%	12.5	14.3%
MATH V13B	37	28	75.7%	36	75.0%	1	100.0%	25.0	33.3%
MATH V20	104	55	52.9%	88	47.7%	16	81.3%	33.5	70.2%
MATH V21A	158	90	57.0%	146	56.8%	12	58.3%	1.5	2.6%
MATH V44	90	51	56.7%	79	51.9%	11	90.9%	39.0	75.2%
MICR V01	65	52	80.0%	57	77.2%	8	100.0%	22.8	29.5%
PHSO V01	85	77	90.6%	76	89.5%	9	100.0%	10.5	11.8%
POLS V01	206	156	75.7%	192	74.0%	14	100.0%	26.0	35.2%
Totals	2,428	1,775	73.1%	2,259	71.9%	169	88.8%	16.9	23.5%

* Percent Differ: ((B minus A) divided by A) times 100

Notes Related to Success by Course and Number of SI Contacts (Table C)

1. Except for MATH V03, success rates for students with “6/more SI Contacts” were **higher** than the success rates for students with “0 to 5 SI Contacts.”
2. Five courses (in light yellow) had **four or less** students in the “6/more SI Contacts” category.
3. Of the **2,428** students in SI classes, only **169** received six or more SI contacts (**7%** of students).
4. The overall difference in success rates between students with “0 to 5 SI Contacts” and students with “6/more SI Contacts” is **16.9** percentage points or **23.5%**.