

Spring 2014 – Report on Academic Performance of Supplemental Instruction Students

■ **Summary**

This report presents course outcomes data related to students enrolled in **spring 2014** sections that provided supplemental instruction (SI). Spring 2014 SI was funded through the college's **BSI Grant, Title V Velocidad Grant and other sources**.

- SI was offered in **60** sections (**25** courses).
- Of the **2,091** students enrolled in SI sections, **1,033 (49%)** 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**

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** and **3**.

▪ **Success Rates within SI Sections**

Students in SI sections are afforded the opportunity to receive academic assistance from an SI tutor. This metric compares success rates of students who received SI tutoring to success rates of students who did not receive SI tutoring. Data tables are presented on pages **4** and **5**.

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

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

The tables below show success rate data for spring 2014 and fall 2013. In both terms, students who had **six or more** contacts with SI tutors had significantly higher success rates than students with **five or less** SI contacts. Unfortunately, only **22%** of students in spring 2014 SI sections had **six or more** contacts with SI tutors (in fall 2013, it was **19%**). Additional data appear on pages **6** and **7**.

A more reliable evaluation of the effectiveness of SI could be obtained if a greater percentage of students in SI sections attended tutoring sessions or received tutoring services in class.

Spring 2014

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,058	612	57.8%
1 to 5	566	371	65.5%
6 to 10	212	171	80.7%
11 to 15	106	86	81.1%
16 to 20	55	49	89.1%
21 to 29	43	37	86.0%
30 to 61	51	47	92.2%
Totals	2,091	1,373	65.7%

0 to 5	1,624	983	60.5%
6 to 61	467	390	83.5%
Difference in percentage points			23.0

Fall 2013

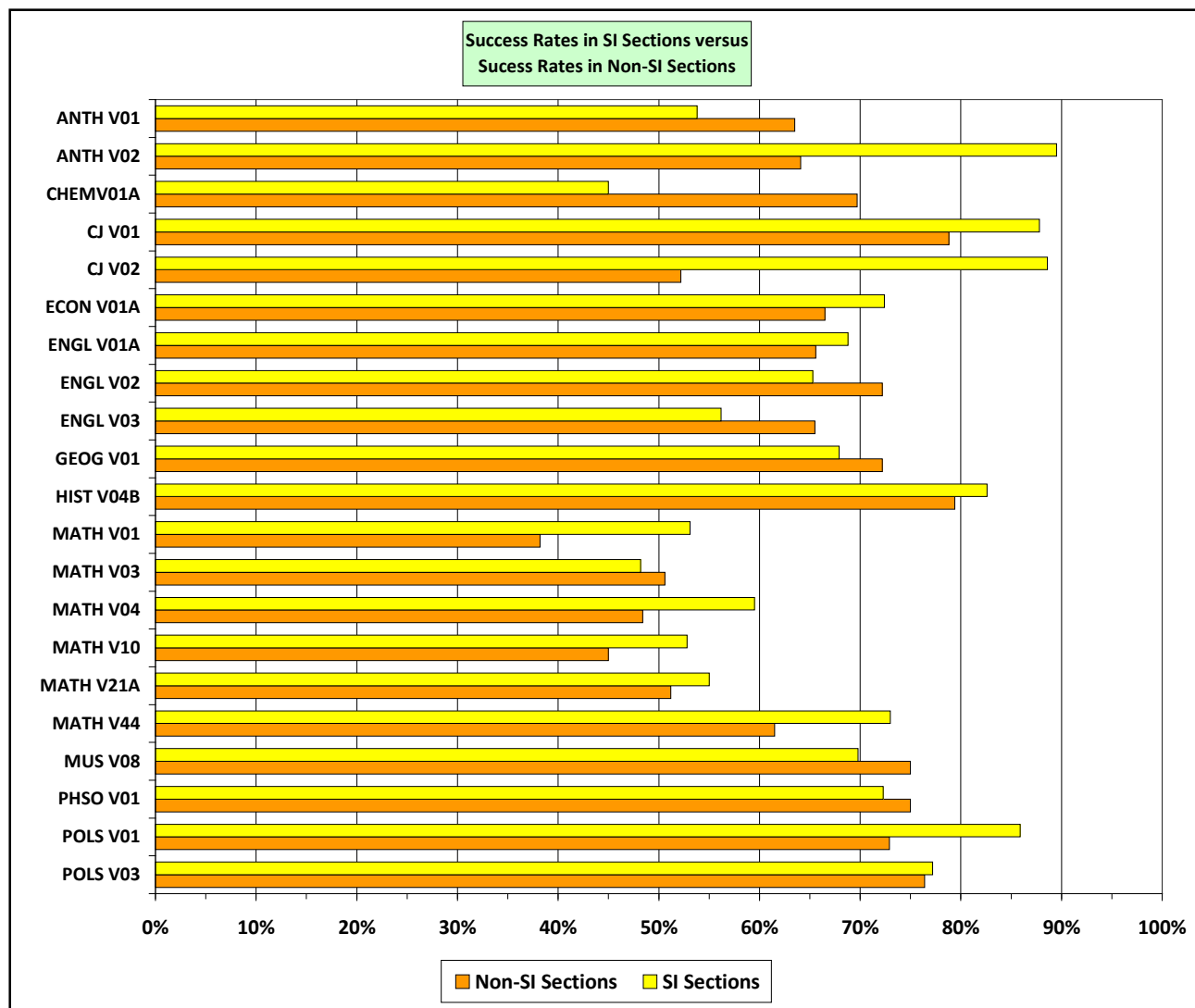
Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,068	672	62.9%
1 to 5	596	380	63.8%
6 to 10	177	138	78.0%
11 to 15	90	73	81.1%
16 to 20	56	48	85.7%
21 to 29	38	33	86.8%
30 to 61	30	30	100.0%
Totals	2,055	1,374	66.9%

0 to 5	1,664	1,052	63.2%
6 to 61	391	322	82.3%
Difference in percentage points			19.1

► Success rates by student demographics are presented on page **6**.

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

The chart below and tables (on pages 2 and 3) 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.



SI Sections versus Non-SI Sections – Success Rates and Grades Distributions												
Course ID	Sect. Status	Total Cnt	Successful		Grades Distributions							
			Num.	Rate	A	B	C	P	D	F	NP	W
ANTH V01	Yes	65	35	53.8%	2	17	16		6	10		14
ANTH V01	No	310	197	63.5%	48	79	70		18	36	1	58
Difference: SI minus Non-SI				-9.7								
ANTH V02	Yes	76	68	89.5%	33	20	15		1	1		6
ANTH V02	No	220	141	64.1%	65	47	29		10	20	1	48
Difference: SI minus Non-SI				+25.4								
CHEM V01A	Yes	80	36	45.0%	7	12	17		10	13		21
CHEM V01A	No	89	62	69.7%	22	21	19		7	7	1	12
Difference: SI minus Non-SI				-24.7								
CJ V01	Yes	41	36	87.8%	23	10	3		1			4
CJ V01	No	151	119	78.8%	33	52	34		8	3		21
Difference: SI minus Non-SI				+9.0								

The table is continued on the next page.

Spring 2014 – Report on Academic Performance of Supplemental Instruction Students

SI Sections versus Non-SI Sections – Success Rates and Grades Distributions												
Course ID	Sect. Status	Total Cnt	Successful		Grades Distributions							
			Num.	Rate	A	B	C	P	D	F	NP	W
CJ V02	Yes	35	31	88.6%	23	6	2		1			3
CJ V02	No	67	35	52.2%	10	15	10		12	7		13
Difference: SI minus Non-SI				+36.4								
ECON V01A	Yes	98	71	72.4%	18	23	30		10	6		11
ECON V01A	No	316	210	66.5%	45	85	80		49	8		49
Difference: SI minus Non-SI				+5.9								
ENGL V01A	Yes	199	137	68.8%	53	50	34		9	12		41
ENGL V01A	No	829	544	65.6%	207	213	124		45	64		176
Difference: SI minus Non-SI				+3.2								
ENGL V02	Yes	75	49	65.3%	13	19	17		7	6		13
ENGL V02	No	529	382	72.2%	142	137	103		44	31		72
Difference: SI minus Non-SI				-6.9								
ENGL V03	Yes	89	50	56.2%				50			19	20
ENGL V03	No	110	72	65.5%				72			19	19
Difference: SI minus Non-SI				-9.3								
GEOG V01	Yes	53	36	67.9%	11	11	14		6	7		4
GEOG V01	No	360	260	72.2%	68	95	97		25	36		39
Difference: SI minus Non-SI				-4.3								
HIST V04B	Yes	69	57	82.6%	27	17	13		4	1		7
HIST V04B	No	34	27	79.4%	8	10	9		2			5
Difference: SI minus Non-SI				+3.2								
MATH V01	Yes	177	94	53.1%	40	29	24	1	22	24		37
MATH V01	No	479	183	38.2%	38	67	77	1	46	96		154
Difference: SI minus Non-SI				+14.9								
MATH V03	Yes	220	106	48.2%	33	31	42		22	28		64
MATH V03	No	703	356	50.6%	93	131	132		46	114		187
Difference: SI minus Non-SI				-2.4								
MATH V04	Yes	74	44	59.5%	6	21	17		9	9		12
MATH V04	No	312	151	48.4%	34	66	50	1	17	29	1	114
Difference: SI minus Non-SI				+11.1								
MATH V10	Yes	123	65	52.8%	22	18	25		9	31		18
MATH V10	No	269	121	45.0%	43	33	44	1	25	78		45
Difference: SI minus Non-SI				+7.8								
MATH V21A	Yes	109	60	55.0%	16	30	14		15	16		18
MATH V21A	No	41	21	51.2%	7	6	8		3	3		14
Difference: SI minus Non-SI				+3.8								
MATH V44	Yes	37	27	73.0%	15	5	7			5		5
MATH V44	No	486	299	61.5%	101	101	96	1	28	51		108
Difference: SI minus Non-SI				+11.5								
MUS V08	Yes	43	30	69.8%	16	7	7		4	6		3
MUS V08	No	216	162	75.0%	79	53	30		8	20		26
Difference: SI minus Non-SI				-5.2								
PHSO V01	Yes	130	94	72.3%	27	40	27		7	8		21
PHSO V01	No	44	33	75.0%	7	14	12		5	2		4
Difference: SI minus Non-SI				-2.3								
POLS V01	Yes	128	110	85.9%	40	41	29		2	9		7
POLS V01	No	406	296	72.9%	176	68	52		27	25		58
Difference: SI minus Non-SI				+13.0								
POLS V03	Yes	57	44	77.2%	17	13	14		1	4		8
POLS V03	No	89	68	76.4%	22	29	17		3	7		11
Difference: SI minus Non-SI				+ 0.8								

Spring 2014 – Report on Academic Performance of Supplemental Instruction Students

■ **Success Rates within SI Sections**

Students in SI sections have the opportunity to receive academic assistance from the SI tutor assigned to their class. In the tables 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 **28%** higher than that of **Non-SI** students.

Summary of Differences in Success Rates

<u>Group</u>	<u>Success Rate</u>	<u>Percent Difference</u>	<u>Computation</u>
SI students	74%	---	---
Non-SI students	58%	---	---
Difference	16 points	28%	(16 ÷ 58) x 100

Spring 2014 – Sections that Offered SI Course Information				Total Students		Non-SI Students			SI Students		
						Total N	Successful N	Rate	Total N	Successful N	Rate
Course ID	CRN	Units	Instructor	N	S/R*	N	N	Rate	N	N	Rate
ANTH V01		3.0		31	39%				31	12	39%
ANTH V01		3.0		34	68%	2	2	100%	32	21	66%
Totals & Overall Success Rates				65	54%	2	2	100%	63	33	52%
ANTH V02		3.0		43	88%	26	21	80%	17	17	100%
ANTH V02		3.0		33	91%	23	20	87%	10	10	100%
Totals & Overall Success Rates				76	68	49	41	84%	27	27	100%
CHEM V01A		3.0		80	45%	32	7	22%	48	29	60%
CJ V01		3.0		41	88%				41	36	88%
CJ V02		3.0		35	89%	15	15	100%	20	16	80%
ECON V01A		3.0		48	65%	28	13	46%	20	18	90%
ECON V01A		3.0		50	80%	33	24	73%	17	16	94%
Totals & Overall Success Rates				98	72%	61	37	61%	37	34	92%
ENGL V01A		5.0		29	66%	7	1	14%	22	18	82%
ENGL V01A		5.0		30	80%	11	7	64%	19	17	89%
ENGL V01A		5.0		27	59%	18	10	56%	9	6	67%
ENGL V01A		5.0		28	64%	4	0	0%	24	18	75%
ENGL V01A		5.0		28	57%	2	0	0%	26	16	62%
ENGL V01A		5.0		28	89%				28	25	89%
ENGL V01A		5.0		29	66%	20	11	55%	9	8	89%
Totals & Overall Success Rates				199	69%	62	29	47%	137	108	79%
ENGL V02		5.0		24	71%	10	7	70%	14	10	71%
ENGL V02		5.0		21	71%	14	11	79%	7	4	57%
ENGL V02		5.0		30	57%	6	3	50%	24	14	58%
Totals & Overall Success Rates				75	65%	30	21	70%	45	28	62%
ENGL V03		5.0		28	54%	11	2	18%	17	13	76%
ENGL V03		5.0		29	62%	12	5	42%	17	13	76%
ENGL V03		5.0		32	53%	14	5	36%	18	12	67%
Totals & Overall Success Rates				89	56%	37	12	32%	52	38	73%
GEOG V01		3.0		53	68%	34	22	65%	19	14	74%
HIST V04B		3.0		32	84%	15	12	80%	17	15	88%
HIST V04B		3.0		37	81%	22	18	82%	15	12	80%
Totals & Overall Success Rates				69	83%	37	30	81%	32	27	84%

The table is continued on the next page.

Spring 2014 – Report on Academic Performance of Supplemental Instruction Students

Spring 2014 – Sections that Offered SI 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
MATH V01		5.0		27	89%	12	11	92%	15	13	87%
MATH V01		5.0		23	26%	11	4	36%	12	2	17%
MATH V01		5.0		23	35%	12	4	33%	11	4	36%
MATH V01		5.0		23	52%	17	8	47%	6	4	67%
MATH V01		5.0		38	55%	29	17	59%	9	4	44%
MATH V01		5.0		43	53%	24	12	50%	19	11	58%
Totals & Overall Success Rates				177	53%	105	56	53%	72	38	53%
MATH V03		5.0		24	71%	8	5	63%	16	12	75%
MATH V03		5.0		36	19%	21	2	10%	15	5	33%
MATH V03		5.0		27	41%	7	0	0%	20	11	55%
MATH V03		5.0		19	95%	2	2	100%	17	16	94%
MATH V03		5.0		41	49%	33	14	42%	8	6	75%
MATH V03		5.0		46	48%	23	7	30%	23	15	65%
MATH V03		5.0		27	41%	14	2	14%	13	9	69%
Totals & Overall Success Rates				220	48%	108	32	30%	112	74	66%
MATH V04		4.0		38	58%	29	16	55%	9	6	67%
MATH V04		4.0		36	61%	3	1	33%	33	21	64%
Totals & Overall Success Rates				74	59%	32	17	53%	42	27	64%
MATH V10		3.0		42	45%	34	16	47%	8	3	38%
MATH V10		3.0		40	50%	35	17	49%	5	3	60%
MATH V10		3.0		41	63%	34	21	62%	7	5	71%
Totals & Overall Success Rates				123	53%	103	54	52%	20	11	55%
MATH V11B		3.0		30	67%	24	15	63%	6	5	83%
MATH V13B		3.0		28	75%	10	7	70%	18	14	78%
MATH V21A		5.0		16	50%	6	3	50%	10	5	50%
MATH V21A		5.0		46	48%	25	10	40%	21	12	57%
MATH V21A		5.0		47	64%	25	13	52%	22	17	77%
Totals & Overall Success Rates				109	55%	56	26	46%	53	34	64%
MATH V44		4.0		37	73%	12	4	33%	25	23	92%
MUS V08		3.0		43	70%	19	12	63%	24	18	75%
PHSO V01		4.0		34	79%	21	16	76%	13	11	85%
PHSO V01		4.0		32	84%	22	17	78%	10	10	100%
PHSO V01		4.0		33	55%	22	12	55%	11	6	55%
PHSO V01		4.0		31	71%	25	16	64%	6	6	100%
Totals & Overall Success Rates				130	72%	90	61	68%	40	33	83%
POLS V01		3.0		48	92%	29	26	90%	19	18	95%
POLS V01		3.0		80	83%	64	51	80%	16	15	94%
Totals & Overall Success Rates				128	86%	93	77	83%	35	33	94%
POLS V03		3.0		27	70%	7	1	14%	20	18	90%
POLS V03		3.0		30	83%	11	8	73%	19	17	89%
Totals & Overall Success Rates				57	77%	18	9	50%	39	35	90%
WS V17		3.0		31	94%	16	14	88%	15	15	100%
WS V21		4.0		24	96%	13	12	92%	11	11	100%
Totals & Overall Success Rates				2,091	66%	1,058	612	58%	1,033	761	74%

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

Spring 2014 – Report on Academic Performance of Supplemental Instruction Students

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

Spring 2014 Student Demographics	Total Student Enrollments		Non-SI Students			SI Students		
	Num.	Percent	Total Num.	Successful		Total Num.	Successful	
				Number	Rate		Number	Rate
Ethnicity								
Asian/Pacific Islander	106	5.0%	46	30	65%	57	51	89%
Black	48	2.3%	21	8	38%	27	18	67%
Hispanic	1,309	62.6%	661	365	55%	648	458	71%
Native American	10	0.5%	3	2	67%	7	7	100%
Two/More Ethnicities	83	4.0%	1	0	0%	2	2	100%
White	521	24.9%	39	26	67%	44	34	77%
Unreported	14	0.7%	283	177	63%	238	182	76%
Totals and Rates	2,091	100.0%	1,058	612	58%	1,033	761	74%
Gender								
Female	1,055	50.5%	514	311	61%	541	418	77%
Male	1,016	48.5%	535	296	55%	481	334	69%
Unreported	20	1.0%	9	5	56%	11	9	82%
Totals and Rates	2,091	100.0%	1,058	612	58%	1,033	761	74%
Age (in years)								
17 or younger	28	1.3%	22	13	59%	6	6	100%
18 – 22	1,417	67.8%	741	410	55%	676	479	71%
23 – 29	392	18.7%	198	122	62%	194	154	79%
30 – 39	152	7.3%	66	45	68%	86	68	79%
40 or older	102	4.9%	31	22	71%	71	54	76%
Totals and Rates	2,091	100.0%	1,058	612	58%	1,033	761	74%

■ **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 – B display summary data for all sections in which SI was offered. Table C (page 7) provides success rates by course and number of SI contacts (i.e., **0 to 5** contacts versus **6 or more** contacts).

Table A. Summary for All Students

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,058	612	57.8%
1 to 5	566	371	65.5%
6 to 10	212	171	80.7%
11 to 15	106	86	81.1%
16 to 20	55	49	89.1%
21 to 29	43	37	86.0%
30 to 61	51	47	92.2%
Totals	2,091	1,373	65.7%
0 to 5	1,624	983	60.5%
6 to 61	467	390	83.5%
Difference in percentage points			23.0

Table B. Summary for Hispanic Students

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	661	365	55.2%
1 to 5	367	232	63.2%
6 to 10	138	109	79.0%
11 to 15	68	56	82.4%
16 to 20	27	22	81.5%
21 to 29	23	18	78.3%
30 to 61	25	21	84.0%
Totals	1,309	823	62.9%
0 to 5	1,028	597	58.1%
6 to 61	281	226	80.4%
Difference in percentage points			22.3

Spring 2014 – Report on Academic Performance of Supplemental Instruction Students

Table C. Summary of Student Success by Course and by Number of SI Contacts

Courses	All Students			0 to 5 SI Contacts		6/more SI Contacts		Difference	
	Total Studnts	Successful		Total Studnts	Success Rate (A)	Total Studnts	Success Rate (B)	(B) minus (A)	
		Count	Rate					Num.	Prcnt *
ANTH V01	65	35	53.8%	49	42.9%	16	87.5%	44.6	104.2%
ANTH V02	76	68	89.5%	67	88.1%	9	100.0%	11.9	13.6%
CHEM V01A	80	36	45.0%	42	31.0%	38	60.5%	29.6	95.5%
CJ V01	41	36	87.8%	28	85.7%	13	92.3%	6.6	7.7%
CJ V02	35	31	88.6%	28	85.7%	7	100.0%	14.3	16.7%
ECON V01A	98	71	72.4%	88	70.5%	10	90.0%	19.5	27.7%
ENGL V01A	199	137	68.8%	124	54.8%	75	92.0%	37.2	67.8%
ENGL V02	75	49	65.3%	65	66.2%	10	60.0%	- 6.2	- 9.3%
ENGL V03	89	50	56.2%	69	50.7%	20	75.0%	24.3	47.9%
GEOG V01	53	36	67.9%	47	63.8%	6	100.0%	36.2	56.7%
HIST V04B	69	57	82.6%	55	80.0%	14	92.9%	12.9	16.1%
MATH V01	177	94	53.1%	136	49.3%	41	65.9%	16.6	33.7%
MATH V03	220	106	48.2%	146	33.6%	74	77.0%	43.5	129.5%
MATH V04	74	44	59.5%	63	54.0%	11	90.9%	36.9	68.4%
MATH V10	123	65	52.8%	114	51.8%	9	66.7%	14.9	28.8%
MATH V11B	30	20	66.7%	26	61.5%	4	100.0%	38.5	62.5%
MATH V13B	28	21	75.0%	18	61.1%	10	100.0%	38.9	63.6%
MATH V21A	109	60	55.0%	84	46.4%	25	84.0%	37.6	80.9%
MATH V44	37	27	73.0%	20	55.0%	17	94.1%	39.1	71.1%
MUS V08	43	30	69.8%	35	65.7%	8	87.5%	21.8	33.2%
PHSO V01	130	94	72.3%	110	68.2%	20	95.0%	26.8	39.3%
POLS V01	128	110	85.9%	119	84.9%	9	100.0%	15.1	17.8%
POLS V03	57	44	77.2%	41	68.3%	16	100.0%	31.7	46.4%
WS V17	31	29	93.5%	26	92.3%	5	100.0%	7.7	8.3%
WS V21	24	23	95.8%	24	95.8%	0	---	---	---
Totals	2,091	1,373	65.7%	1,624	60.5%	467	83.5%	23.0	38.0%

* Prcnt: $(((B) - (A)) \div (A)) \times 100$

In all courses, except ENGL V02, the success rates for students with “6/more SI Contacts” are higher than the success rates for students with “0 to 5 SI Contacts.”