

Spring 2015 – Report on Academic Performance of Supplemental Instruction Students

■ **Summary**

This report presents course outcomes related to students enrolled in **spring 2015** sections that provided supplemental instruction (SI). **SI in spring 2015** was funded through the college's **BSI Grant, Title V Velocidad Grant**, and other sources.

- SI was offered in **47** sections (**19** courses).
- Of the **1,864** graded students in SI sections, **848 (45%)** 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 and 3)

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 & 3.

▪ **Success Rates within SI Sections** (Pages 4 and 5)

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 4 and 5.

▪ **Success Rates in SI Sections – By Number of SI Contacts** (Pages 6 and 7)

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.

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

The tables below show success rate data for **spring 2015** and **spring 2014**. 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 **20%** of students in spring 2015 SI classes had **six or more** contacts with SI Leaders (in spring 2014, it was **22%**). 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 SI sessions and/or received SI assistance in class.

Spring 2015

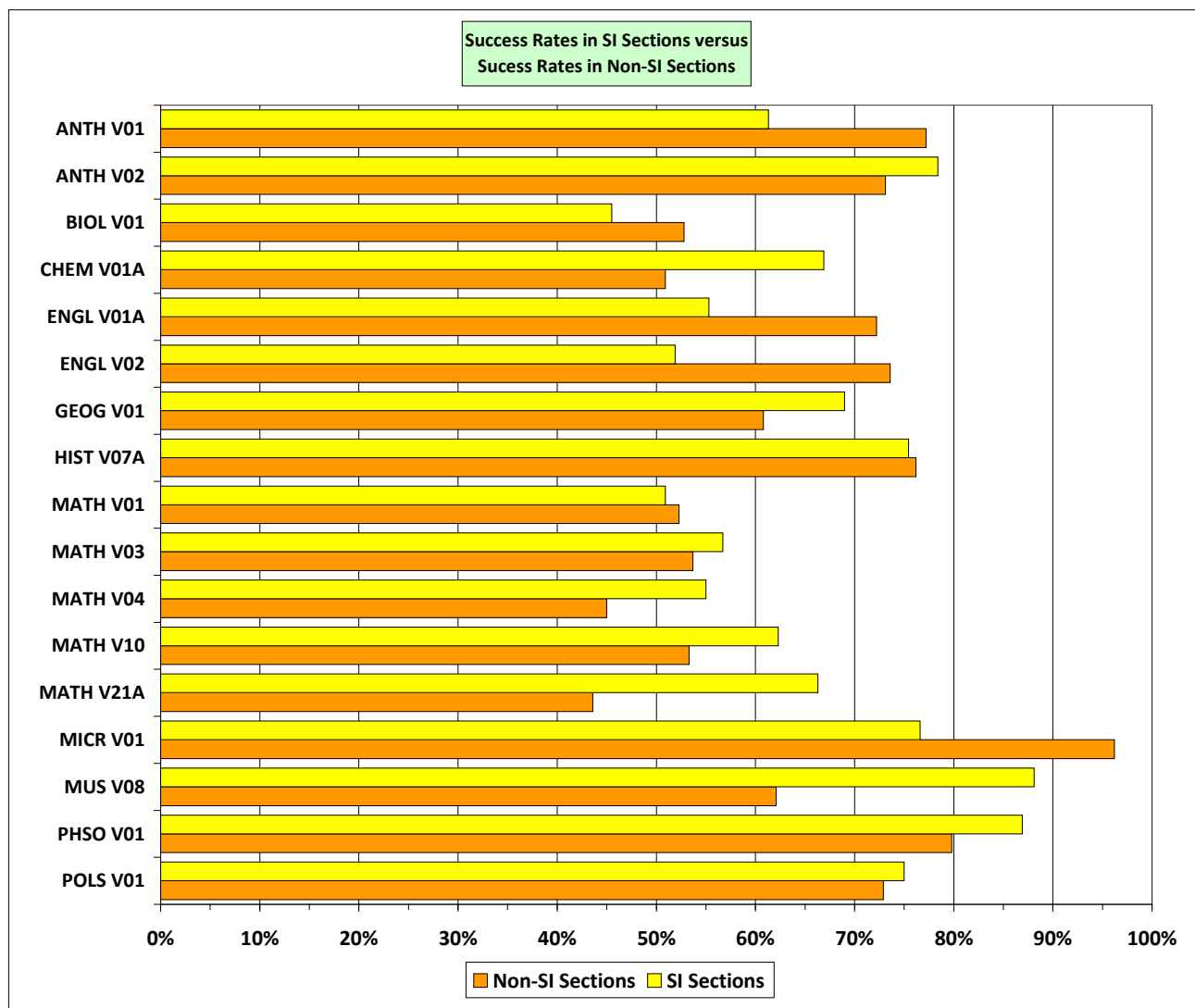
Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,016	576	56.7%
1 to 5	481	315	65.5%
6 to 10	125	99	79.2%
11 to 15	87	69	79.3%
16 to 20	20	12	60.0%
21 to 29	28	20	71.4%
30 or more	107	68	63.6%
Totals	1,864	1,159	62.2%
0 to 5	1,497	891	59.5%
6 or more	367	268	73.0%
Difference in percentage points			13.5

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 or more	467	390	83.5%
Difference in percentage points			23.0

■ **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	SI Status	Total Cnt	Successful		Grades Distributions							
			Num.	Rate	A	B	C	P	D	F	NP	W
ANTH V01	Yes	75	46	61.3%	13	20	13		7	9		13
ANTH V01	No	246	190	77.2%	73	64	53		22	11	1	22
Difference: SI minus Non-SI				-15.9								
ANTH V02	Yes	37	29	78.4%	12	12	5		3	3		2
ANTH V02	No	245	179	73.1%	107	45	27		6	22		38
Difference: SI minus Non-SI				5.3								
BIOL V01	Yes	77	35	45.5%	4	13	18		7	4		31
BIOL V01	No	779	411	52.8%	113	133	165		79	105		184
Difference: SI minus Non-SI				-7.3								
CHEM V01A	Yes	169	113	66.9%	36	40	37		10	15		31
CHEM V01A	No	57	29	50.9%	6	16	7		9	13		6
Difference: SI minus Non-SI				16.0								

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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
ENGL V01A	Yes	85	47	55.3%	26	8	13		8	8		22
ENGL V01A	No	925	668	72.2%	207	276	185		35	79		143
Difference: SI minus Non-SI				-16.9								
ENGL V02	Yes	27	14	51.9%	8	4	2		5			8
ENGL V02	No	576	424	73.6%	143	152	129		46	29		77
Difference: SI minus Non-SI				-21.7								
GEOG V01	Yes	100	69	69.0%	19	32	18		15	12		4
GEOG V01	No	332	202	60.8%	70	61	70	1	36	53		41
Difference: SI minus Non-SI				8.2								
HIST V07A	Yes	69	52	75.4%	19	21	12		4	3		10
HIST V07A	No	411	313	76.2%	109	141	63		23	26		49
Difference: SI minus Non-SI				-1.2								
MATH V01	Yes	405	206	50.9%	75	67	63	1	50	66		83
MATH V01	No	346	181	52.3%	58	51	72		27	50		88
Difference: SI minus Non-SI				-1.4								
MATH V03	Yes	217	123	56.7%	52	26	45		17	30	2	45
MATH V03	No	510	274	53.7%	70	84	119	1	50	71		115
Difference: SI minus Non-SI				3.0								
MATH V04	Yes	120	66	55.0%	24	19	23		9	22		23
MATH V04	No	209	94	45.0%	29	35	30		18	31		66
Difference: SI minus Non-SI				10.0								
MATH V10	Yes	77	48	62.3%	20	15	13		7	10		12
MATH V10	No	289	154	53.3%	48	46	60		33	45		57
Difference: SI minus Non-SI				9.0								
MATH V21A	Yes	101	67	66.3%	28	21	18		9	10		15
MATH V21A	No	78	34	43.6%	5	12	17		12	13		19
Difference: SI minus Non-SI				22.7								
MICR V01	Yes	47	36	76.6%	14	10	12		1	1		9
MICR V01	No	52	50	96.2%	34	11	5			2		
Difference: SI minus Non-SI				-19.6								
MUS V08	Yes	42	37	88.1%	23	11	3		1	1		3
MUS V08	No	190	118	62.1%	61	27	30		7	29		36
Difference: SI minus Non-SI				26.0								
PHSO V01	Yes	84	73	86.9%	27	26	20		2	3		6
PHSO V01	No	99	79	79.8%	24	24	31		9	8		3
Difference: SI minus Non-SI				7.1								
POLS V01	Yes	76	57	75.0%	25	19	13		8	6		5
POLS V01	No	484	353	72.9%	172	123	58		21	46		64
Difference: SI minus Non-SI				2.1								
All SI *	Yes	1,808	1,118	61.8%	425	364	328	1	163	203	2	322
All Non-SI	No	5,828	3,753	64.4%	1,329	1,301	1,121	2	433	633	1	1,008
Difference: SI minus Non-SI				-2.6								

* Excludes BUS V97 (45 students) and MATH V13B (11 students) since these courses were offered only as SI.

Spring 2015 grades were downloaded from Banner on **May 31, 2015**.

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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 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 **21%** higher than that of **Non-SI** students.

Summary of the Differences in Success Rates:

Group	Success Rate	Percent Difference	Computation
SI students	69%	---	---
Non-SI students	57%	---	---
Difference	12 points	21%	(12 ÷ 57) x 100

Course Information				Total Students		Non-SI Students			SI Students		
				N	S/R*	Total	Successful		Total	Successful	
Course ID	CRN	Units	Instructor	N	S/R*	N	N	Rate	N	N	Rate
ANTH V01		3.0		35	57%	17	7	41%	18	13	72%
ANTH V01		3.0		40	65%	6	1	17%	34	25	74%
Totals & Overall Success Rates				75	61%	23	8	35%	52	38	73%
ANTH V02		3.0		37	78%	26	21	81%	11	8	73%
BIOL V01		3.0		77	45%	52	19	37%	25	16	64%
BUS V97		16.0		22	68%	0	---	---	22	15	68%
BUS V97		16.0		23	83%	0	---	---	23	19	83%
Totals & Overall Success Rates				45	76%	0	---	---	45	34	76%
CHEM V01A		3.0		84	64%	66	43	65%	18	11	61%
CHEM V01A		3.0		85	69%	62	43	69%	23	16	70%
Totals & Overall Success Rates				169	67%	128	86	67%	41	27	66%
ENGL V01A		5.0		31	77%	1	1	100%	30	23	77%
ENGL V01A		5.0		27	41%	13	4	31%	14	7	50%
ENGL V01A		5.0		27	44%	12	1	8%	15	11	73%
Totals & Overall Success Rates				85	55%	26	6	23%	59	41	69%
ENGL V02		5.0		27	52%	8	1	13%	19	13	68%
GEOG V01		3.0		50	74%	38	26	68%	12	11	92%
GEOG V01		3.0		50	64%	39	23	59%	11	9	82%
Totals & Overall Success Rates				100	69%	77	49	64%	23	20	87%
HIST V07A	30538	3.0		35	71%	4	2	50%	31	23	74%
HIST V07A	30540	3.0		34	79%	7	3	43%	27	24	89%
Totals & Overall Success Rates				69	75%	11	5	45%	58	47	81%

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

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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
MATH V01		5.0		30	87%	19	17	89%	11	9	82%
MATH V01		5.0		37	62%	12	8	67%	25	15	60%
MATH V01		5.0		45	40%	1	0	0%	44	18	41%
MATH V01		5.0		46	43%	31	13	42%	15	7	47%
MATH V01		5.0		47	43%	32	13	41%	15	7	47%
MATH V01		5.0		41	68%	24	17	71%	17	11	65%
MATH V01		5.0		39	54%	3	2	67%	36	19	53%
MATH V01		5.0		41	39%	40	16	40%	1	0	0%
MATH V01		5.0		41	41%	40	16	40%	1	1	100%
MATH V01		5.0		38	45%	4	2	50%	34	15	44%
Totals & Overall Success Rates				405	51%	206	104	50%	199	102	51%
MATH V03		5.0		29	76%	16	12	75%	13	10	77%
MATH V03		5.0		39	64%	18	9	50%	21	16	76%
MATH V03		5.0		39	49%	21	8	38%	18	11	61%
MATH V03		5.0		41	61%	2	1	50%	39	24	62%
MATH V03		5.0		26	54%	21	13	62%	5	1	20%
MATH V03		5.0		43	42%	28	8	29%	15	10	67%
Totals & Overall Success Rates				217	57%	106	51	48%	111	72	65%
MATH V04		4.0		39	56%	26	14	54%	13	8	62%
MATH V04		4.0		45	56%	29	13	45%	16	12	75%
MATH V04		4.0		36	53%	8	2	25%	28	17	61%
Totals & Overall Success Rates				120	55%	63	29	46%	57	37	65%
MATH V10		3.0		38	61%	26	15	58%	12	8	67%
MATH V10		3.0		39	64%	26	15	58%	13	10	77%
Totals & Overall Success Rates				77	62%	52	30	58%	25	18	72%
MATH V13B		3.0		11	64%	1	0	0%	10	7	70%
MATH V21A		5.0		54	63%	48	28	58%	6	6	100%
MATH V21A		5.0		47	70%	33	21	64%	14	12	86%
Totals & Overall Success Rates				101	66%	81	49	60%	20	18	90%
MICR V01		4.0		23	78%	6	3	50%	17	15	88%
MICR V01		4.0		24	75%	11	5	45%	13	13	100%
Totals & Overall Success Rates				47	77%	17	8	47%	30	28	93%
MUS V08		3.0		42	88%	35	30	86%	7	7	100%
PHSO V01		4.0		30	97%	17	16	94%	13	13	100%
PHSO V01		4.0		28	89%	15	12	80%	13	13	100%
PHSO V01		4.0		26	73%	14	10	71%	12	9	75%
Totals & Overall Success Rates				84	87%	46	38	83%	38	35	92%
POLS V01		3.0		76	75%	58	42	72%	18	15	83%
Totals & Overall Success Rates				1,864	62%	1,016	576	57%	848	583	69%

* 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	83	4.5%	51	32	63%	32	26	81%
Black	32	1.7%	14	2	14%	18	11	61%
Hispanic	1,163	62.4%	632	344	54%	531	347	65%
Native American	6	0.3%	5	3	60%	1	1	100%
Pacific Islander	3	0.2%	2	1	50%	1	0	0%
Multi- Ethnic	69	3.7%	38	30	79%	31	23	74%
White	500	26.8%	269	164	61%	231	173	75%
Unreported	8	0.4%	5	0	0%	3	2	67%
Totals and Rates	1,864	100.0%	1,016	576	57%	848	583	69%
Gender								
Female	1,022	54.8%	557	309	55%	465	332	71%
Male	810	43.5%	443	258	58%	367	239	65%
Unreported	32	1.7%	16	9	56%	16	12	75%
Totals and Rates	1,864	100.0%	1,016	576	57%	848	583	69%
Age (in years)								
17 or younger	60	3.2%	34	28	82%	26	20	77%
18 – 22	1,337	71.8%	771	427	55%	566	374	66%
23 – 29	304	16.3%	157	91	58%	147	108	73%
30 – 39	103	5.5%	34	18	53%	69	56	81%
40 or older	60	3.2%	20	12	60%	40	25	63%
Totals and Rates	1,864	100.0%	1,016	576	57%	848	583	69%

■ **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. All Students in SI sections

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			13.5

Table B. Hispanic Students in SI Sections

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	632	344	54.4%
1 to 5	289	177	61.2%
6 to 10	76	59	77.6%
11 to 15	51	39	76.5%
16 to 20	12	7	58.3%
21 to 29	21	14	66.7%
30 or more	82	51	62.2%
Totals	1,163	691	59.4%

0 to 5	921	521	56.6%
6 or more	242	170	70.2%
Difference in percentage points			13.6

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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	75	46	61.3%	65	56.9%	10	90.0%	33.1	58.1%
ANTH V02	37	29	78.4%	37	78.4%	0	---	---	---
BIOL V01	77	35	45.5%	74	43.2%	3	100.0%	56.8	131.3%
BUS V97	45	34	75.6%	0	---	45	75.6%	---	----
CHEM V01A	169	113	66.9%	162	66.0%	7	85.7%	19.7	29.8%
ENGL V01A	85	47	55.3%	45	42.2%	40	70.0%	27.8	65.8%
ENGL V02	27	14	51.9%	20	35.0%	7	100.0%	65.0	185.7%
GEOG V01	100	69	69.0%	93	67.7%	7	85.7%	18.0	26.5%
HIST V07A	69	52	75.4%	41	63.4%	28	92.9%	29.4	46.4%
MATH V01	405	206	50.9%	290	48.6%	115	56.5%	7.9	16.3%
MATH V03	217	123	56.7%	187	53.5%	30	76.7%	23.2	43.4%
MATH V04	120	66	55.0%	102	51.0%	18	77.8%	26.8	52.6%
MATH V10	77	48	62.3%	66	63.6%	11	54.5%	- 9.1	-14.3%
MATH V13B	11	7	63.6%	1	0.0%	10	70.0%	70.0	---
MATH V21A	101	67	66.3%	90	63.3%	11	90.9%	27.6	43.5%
MICR V01	47	36	76.6%	40	75.0%	7	85.7%	10.7	14.3%
MUS V08	42	37	88.1%	38	86.8%	4	100.0%	13.2	15.2%
PHSO V01	84	73	86.9%	71	84.5%	13	100.0%	15.5	18.3%
POLS V01	76	57	75.0%	75	74.7%	1	100.0%	25.3	33.9%
Totals	1,864	1,159	62.2%	1,497	59.5%	367	73.0%	13.5	22.7%

* **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 V10, success rates for students with “6/more SI Contacts” was **higher** than the success rates for students with “0 to 5 SI Contacts.”
2. Three courses (in light yellow) had **four or less** students in the “6/more SI Contacts” category.
3. Of the **1,864** students in SI classes, only **367** received six or more SI contacts (**20%** 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 **13.5** percentage points or **22.7%**.