

■ **Summary**

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

- SI was offered in **45** sections (**20** courses).
- Of the **1,930** graded students in SI sections, **718 (37%)** 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 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 (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 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.

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

The tables below show success rate data for fall 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 **11%** of students in fall 2014 SI classes 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.

Fall 2014

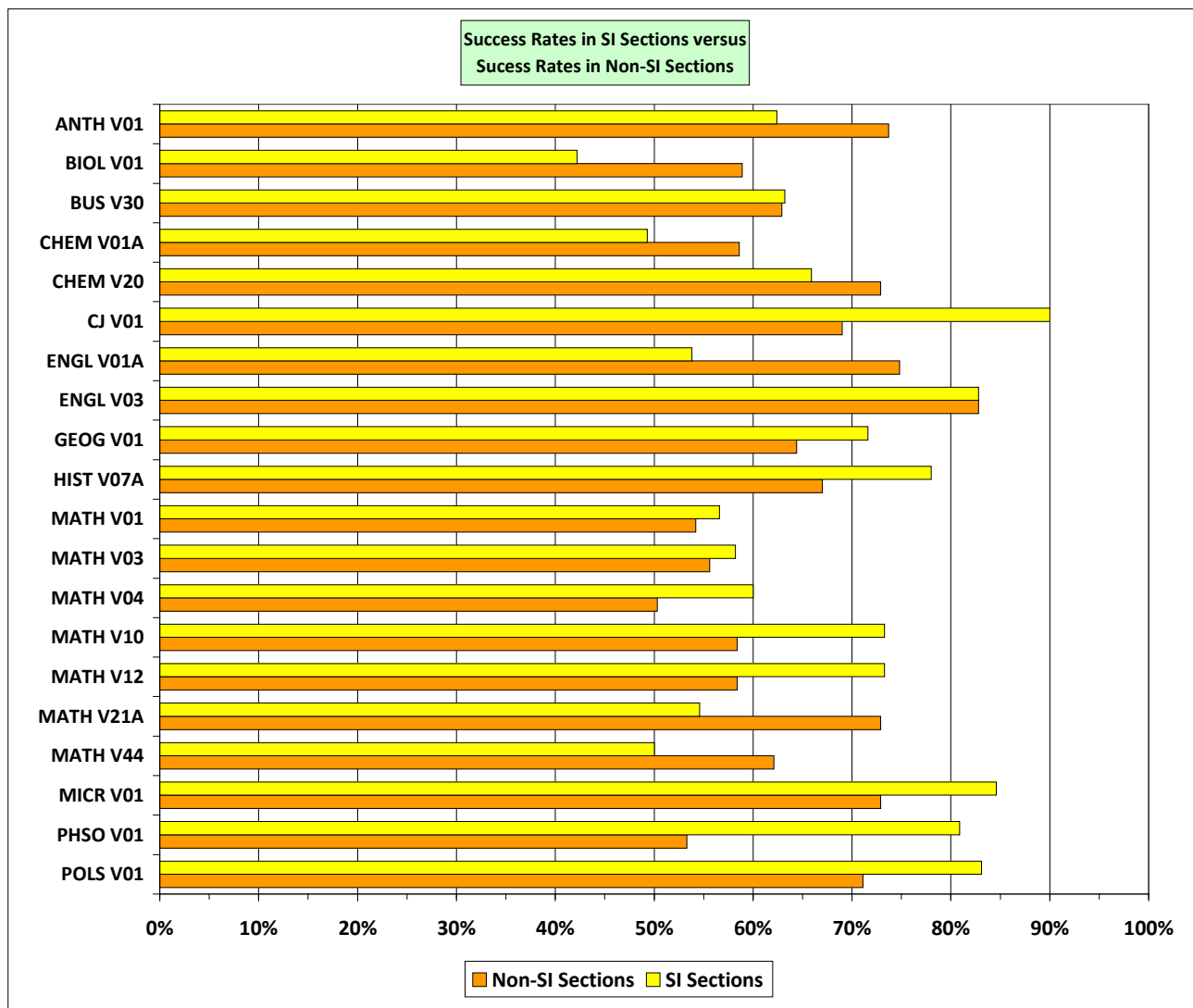
Number of SI Contacts	Students		Success Rate
	Total	Success	
0	1,212	700	57.8%
1 to 5	499	339	67.9%
6 to 10	98	76	77.6%
11 to 15	40	34	85.0%
16 to 20	43	37	86.0%
21 to 29	28	25	89.3%
30 to 61	10	7	70.0%
Totals	1,930	1,218	63.1%
0 to 5	1,711	1,039	60.7%
6 to 61	219	179	81.7%
Difference in percentage points			21.0

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 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	85	53	62.4%	17	26	10		7	7		18
ANTH V01	No	262	193	73.7%	72	51	70		17	16		36
Difference: SI minus Non-SI				-11.3								
BIOL V01	Yes	185	78	42.2%	23	23	32		22	46		39
BIOL V01	No	581	342	58.9%	84	132	126		46	75		118
Difference: SI minus Non-SI				-16.7								
BUS V30	Yes	38	24	63.2%	11	7	6		3	4		7
BUS V30	No	302	190	62.9%	75	62	53		27	33		52
Difference: SI minus Non-SI				0.3								
CHEM V01A	Yes	75	37	49.3%	9	13	15		7	7		24
CHEM V01A	No	157	92	58.6%	34	31	27		14	20		31
Difference: SI minus Non-SI				-9.3								

This table is continued on the next page.

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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
CHEM V20	Yes	126	83	65.9%	31	29	23		8	12		23
CHEM V20	No	85	62	72.9%	28	14	18	2	5	9		9
Difference: SI minus Non-SI				-7.0								
CJ V01	Yes	40	36	90.0%	20	11	5			2		2
CJ V01	No	187	129	69.0%	30	49	50		20	9		29
Difference: SI minus Non-SI				21.0								
ENGL V01A	Yes	26	14	53.8%	7	6	1			5		7
ENGL V01A	No	1,084	811	74.8%	285	336	190		51	70		152
Difference: SI minus Non-SI				-21.0								
ENGL V03	Yes	58	48	82.8%				48			6	4
ENGL V03	No	320	265	82.8%				265			38	17
Difference: SI minus Non-SI				0.0								
GEOG V01	Yes	109	78	71.6%	11	32	35		11	11		9
GEOG V01	No	371	239	64.4%	54	91	94		35	54		43
Difference: SI minus Non-SI				7.2								
HIST V07A	Yes	41	32	78.0%	13	12	7			2		7
HIST V07A	No	455	305	67.0%	91	135	79		36	32		82
Difference: SI minus Non-SI				11.0								
MATH V01	Yes	189	107	56.6%	32	34	41		24	19		39
MATH V01	No	583	316	54.2%	76	109	129	2	63	74		130
Difference: SI minus Non-SI				2.4								
MATH V03	Yes	232	135	58.2%	54	36	45		18	41		38
MATH V03	No	617	343	55.6%	87	120	134	2	61	91		122
Difference: SI minus Non-SI				2.6								
MATH V04	Yes	110	66	60.0%	34	16	16		16	9		19
MATH V04	No	304	153	50.3%	51	57	45		23	52		76
Difference: SI minus Non-SI				9.7								
MATH V10	Yes	86	63	73.3%	30	20	13		7	8		8
MATH V10	No	413	241	58.4%	69	84	87	1	37	71		64
Difference: SI minus Non-SI				14.9								
MATH V12	Yes	47	26	55.3%	3	10	12	1	4	8		9
MATH V12	No	38	21	55.3%	2	4	15		8	8		1
Difference: SI minus Non-SI				0.0								
MATH V21A	Yes	163	89	54.6%	31	38	20		23	10		41
MATH V21A	No	48	35	72.9%	15	15	5		4	5		4
Difference: SI minus Non-SI				-18.3								
MATH V44	Yes	44	22	50.0%	6	10	6		5	8		9
MATH V44	No	601	373	62.1%	145	105	123		50	58		120
Difference: SI minus Non-SI				-12.1								
MICR V01	Yes	13	11	84.6%	3	5	3					2
MICR V01	No	59	43	72.9%	16	17	10		1			15
Difference: SI minus Non-SI				11.7								
PHSO V01	Yes	115	93	80.9%	24	46	23		6	5		11
PHSO V01	No	30	16	53.3%	1	4	11		3	2		9
Difference: SI minus Non-SI				33.6								
POLS V01	Yes	148	123	83.1%	64	44	15		2	6		17
POLS V01	No	308	219	71.1%	135	56	28		16	22		51
Difference: SI minus Non-SI				12.0								
ALL SI	Yes	1,930	1,218	63.1%	423	418	328	49	163	210	6	333
ALL NON-SI	No	6,805	4,388	64.5%	1,350	1,472	1,294	272	517	701	38	1,161
Difference: SI minus Non-SI				-1.4								

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■ **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 **24%** 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	72%	---	---
Non-SI students	58%	---	---
Difference	14 points	24%	(14 ÷ 58) x 100

Fall 2014 – Sections that Offered SI Course Information				Total Students		Non-SI Students			SI Students		
				N	S/R*	Total N	Successful N	Rate	Total N	Successful N	Rate
ANTH V01		3.0		43	58%	29	14	48%	14	11	79%
ANTH V01		3.0		42	67%	25	14	56%	17	14	82%
Totals & Overall Success Rates				85	62%	54	28	52%	31	25	81%
BIOL V01		3.0		83	34%	62	18	29%	21	10	48%
BIOL V01		3.0		102	49%	95	45	47%	7	5	71%
Totals & Overall Success Rates				185	42%	157	63	40%	28	15	54%
BUS V30		3.0		38	63%	29	16	55%	9	8	89%
CHEM V01A		3.0		75	49%	23	9	39%	52	28	54%
CHEM V20		4.0		70	64%	45	33	73%	25	12	48%
CHEM V20		4.0		56	68%	41	27	66%	15	11	73%
Totals & Overall Success Rates				126	66%	86	60	70%	40	23	58%
CJ V01		3.0		40	90%	15	12	80%	25	24	96%
ENGL V01A		5.0		26	54%	11	4	36%	15	10	67%
ENGL V03		5.0		29	76%	16	10	63%	13	12	92%
ENGL V03		5.0		29	90%	11	9	82%	18	17	94%
Totals & Overall Success Rates				58	83%	27	19	70%	31	29	94%
GEOG V01		3.0		53	60%	36	20	56%	17	12	71%
GEOG V01		3.0		56	82%	37	29	78%	19	17	89%
Totals & Overall Success Rates				109	72%	73	49	67%	36	29	81%
HIST V07A		3.0		41	78%	5	3	60%	36	29	81%
MATH V01		5.0		45	69%	41	29	71%	4	2	50%
MATH V01		5.0		40	30%	35	11	31%	5	1	20%
MATH V01		5.0		45	67%	31	22	71%	14	8	57%
MATH V01		5.0		23	78%	11	6	55%	12	12	100%
MATH V01		5.0		36	44%	32	13	41%	4	3	75%
Totals & Overall Success Rates				189	57%	150	81	54%	39	26	67%

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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 V03		5.0		44	39%	28	7	25%	16	10	63%
MATH V03		5.0		46	70%	27	19	70%	19	13	68%
MATH V03		5.0		40	43%	34	15	44%	6	2	33%
MATH V03		5.0		37	54%	16	8	50%	21	12	57%
MATH V03		5.0		30	63%	22	12	55%	8	7	88%
MATH V03		5.0		35	86%	16	13	81%	19	17	89%
Totals & Overall Success Rates				232	58%	143	74	52%	89	61	69%
MATH V04		4.0		38	45%	24	7	29%	14	10	71%
MATH V04		4.0		43	63%	35	22	63%	8	5	63%
MATH V04		4.0		29	76%	19	13	68%	10	9	90%
Totals & Overall Success Rates				110	60%	78	42	54%	32	24	75%
MATH V10		3.0		46	74%	35	25	71%	11	9	82%
MATH V10		3.0		40	73%				40	29	73%
Totals & Overall Success Rates				86	73%	35	25	71%	51	38	75%
MATH V12		3.0		47	55%	33	16	48%	14	10	71%
MATH V21A		5.0		43	51%	29	14	48%	14	8	57%
MATH V21A		5.0		39	44%	21	7	33%	18	10	56%
MATH V21A		5.0		40	60%	13	11	85%	27	13	48%
MATH V21A		5.0		41	63%	24	12	50%	17	14	82%
Totals & Overall Success Rates				163	55%	87	44	51%	76	45	59%
MATH V44		4.0		44	50%	37	18	49%	7	4	57%
MICR V01		4.0		13	85%	10	9	90%	3	2	67%
PHSO V01		4.0		25	88%	7	7	100%	18	15	83%
PHSO V01		4.0		27	81%	14	11	79%	13	11	85%
PHSO V01		4.0		20	80%	13	9	69%	7	7	100%
PHSO V01		4.0		22	86%	12	10	83%	10	9	90%
PHSO V01		4.0		21	67%	7	4	57%	14	10	71%
Totals & Overall Success Rates				115	81%	53	41	77%	62	52	84%
POLS V01		3.0		74	93%	60	55	92%	14	14	100%
POLS V01		3.0		74	73%	46	32	70%	28	22	79%
Totals & Overall Success Rates				148	83%	106	87	82%	42	36	86%
Totals & Overall Success Rates				1,930	63%	1,212	700	58%	718	518	72%

* 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**

Fall 2014 Student Demographics	Total Student Enrollments		Non-SI Participants			SI Participants		
	Num.	Percnt	Total Num.	Successful		Total Num.	Successful	
				Number	Rate		Number	Rate
Ethnicity								
Asian	93	5%	55	42	76%	38	21	55%
Black	42	2%	26	10	38%	16	11	69%
Hispanic	1,185	61%	748	406	54%	437	305	70%
Native American	6	0%	3	2	67%	3	2	67%
Pacific Islander	5	0%	4	3	75%	1	0	0%
Two/More Ethnicities	67	4%	46	24	52%	21	13	62%
White	5,22	27%	326	210	64%	196	162	83%
Unreported	10	1%	4	3	75%	6	4	67%
Totals and Rates	1,930	100%	1,212	700	58%	718	518	72%
Gender								
Female	988	51%	585	342	58%	403	296	73%
Male	924	48%	613	353	58%	311	218	70%
Unreported	18	1%	14	5	36%	4	4	100%
Totals and Rates	1,930	100%	1,212	700	58%	718	518	72%
Age (in years)								
17 or younger	31	1.6%	21	15	71%	10	10	100%
18 – 22	1,410	73.1%	901	499	55%	509	365	72%
23 – 29	299	15.5%	182	113	62%	117	78	67%
30 – 39	122	6.3%	73	49	67%	49	37	76%
40 or older	68	3.5%	35	24	69%	33	28	85%
Totals and Rates	1,930	100%	1,212	700	58%	718	518	72%

■ **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	1,212	700	57.8%
1 to 5	499	339	67.9%
6 to 10	98	76	77.6%
11 to 15	40	34	85.0%
16 to 20	43	37	86.0%
21 to 29	28	25	89.3%
30 to 54	10	7	70.0%
Totals	1,930	1,218	63.1%
0 to 5	1,711	1,039	60.7%
6 to 54	219	179	81.7%
Difference in percentage points			21.0

Table B. Summary for Hispanic Students

Number of SI Contacts	Students		Success Rate
	Total	Success	
0	748	406	54.3%
1 to 5	316	210	66.5%
6 to 10	62	48	77.4%
11 to 15	20	16	80.0%
16 to 20	21	17	81.0%
21 to 29	13	10	76.9%
30 to 54	5	4	80.0%
Totals	1,185	711	60.0%
0 to 5	1,064	616	57.9%
6 to 54	121	95	78.5%
Difference in percentage points			20.6

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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	85	53	62.4%	80	60.0%	5	100.0%	40.0	66.7%
BIOL V01	185	78	42.2%	180	41.1%	5	80.0%	38.9	94.6%
BUS V30	38	24	63.2%	36	61.1%	2	100.0%	38.9	63.6%
CHEM V01A	75	37	49.3%	55	38.2%	20	80.0%	41.8	109.5%
CHEM V20	126	83	65.9%	122	65.6%	4	75.0%	9.4	14.4%
CJ V01	40	36	90.0%	38	89.5%	2	100.0%	10.5	11.8%
ENGL V01A	26	14	53.8%	24	50.0%	2	100.0%	50.0	100.0%
ENGL V03	58	48	82.8%	58	82.8%	--	--	--	--
GEOG V01	109	78	71.6%	105	71.4%	4	75.0%	3.6	5.0%
HIST V07A	41	32	78.0%	24	62.5%	17	100.0%	37.5	60.0%
MATH V01	189	107	56.6%	184	55.4%	5	100.0%	44.6	80.4%
MATH V03	232	135	58.2%	201	54.7%	31	80.6%	25.9	47.4%
MATH V04	110	66	60.0%	99	58.6%	11	72.7%	14.1	24.1%
MATH V10	86	63	73.3%	42	73.8%	44	72.7%	-1.1	-1.5%
MATH V12	47	26	55.3%	46	56.5%	1	0.0%	-56.5	-100.0%
MATH V21A	163	89	54.6%	138	52.9%	25	64.0%	11.1	21.0%
MATH V44	44	22	50.0%	43	48.8%	1	100.0%	51.2	104.8%
MICR V01	13	11	84.6%	12	83.3%	1	100.0%	16.7	20.0%
PHSO V01	115	93	80.9%	86	76.7%	29	93.1%	16.4	21.3%
POLS V01	148	123	83.1%	138	81.9%	10	100.0%	18.1	22.1%
Totals	1,930	1,218	63.1%	1,711	60.7%	219	81.7%	21.0	34.6%

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

- In all courses, except MATH V10 and MATH V12, the success rates for students with “6/more SI Contacts” are **higher** than the success rates for students with “0 to 5 SI Contacts.”
- Six of the courses (in yellow) had only **one** or **two** students in the “6/more SI Contacts” category.