

▪ **SUMMARY**

• **Introduction**

The **VC Math Center**, located in room **SCI-223A** in the Sciences and Mathematics building, is funded through the college's Title V *Velocidad* Grant. The Math Center assists Ventura College students in acquiring the skills they need to succeed in their current mathematics class/es.

This report examines tutoring sessions provided during **fall 2014**. Data for the study were extracted from SARS-GRID (Math Center tutoring sessions) and the VCCCD Banner System (final grades).

• **Overview**

Summary data for **fall 2014** and **spring 2014** are presented in the table below.

Tutoring Category	Fall 2014	Spring 2014	Difference	
			Points	Percent
A. Number of Courses in which Tutoring was Provided	17	11	6	55%
B. Unduplicated Number of Tutored Students	244	79	165	209%
C. Unduplicated Number of Basic-Skills Students	48	22	26	118%
D. Number of Student Visits to the Math Center	764	288	476	165%
E. Number of Student Course Enrollments	299	88	211	240%

Explanations of Tutoring Categories:

SARS-GRID creates multiple records for each tutoring session. For example, a student who received tutoring in MATH V03 would have a "History Code" record for that date plus a "Reason Code" record of MATH V03 and possibly another record with a "Reason Code" of AABSKSKL (Basic Skills student).

- (A) "Number of Courses in which Tutoring was Provided": Count of the courses in which tutoring was provided.
- (B) "Unduplicated Number of Tutored Students": Count of individual students who received tutoring services (many students received tutoring in more than one discipline).
- (C) "Unduplicated Number of Individual Basic-Skills Students": Unduplicated number of students enrolled in MATH V01, MATH V10, MATH V11A, or MATH V11B.
- (D) "Number of Student Visits to the Math Center": Count of individual "History ID" numbers. A "History ID" number is created every time a student visits the Math Center. The "History ID" number may have more than one "Reason Code" associated with it, e.g., AABSKSKL, MATH V02, and MATH V03.
- (E) "Number of Student Course Enrollments": Count of Math course enrollments in which students received tutoring. Many of the tutored students were enrolled in more than one Math class.

• **Success Rates in Basic Skills Courses**

In fall 2014, the overall success rate for students who received tutoring in MATH V01, MATH V10, or MATH V11A was **lower** than the corresponding rate for non-tutored students in the same sections.

<u>Basic Skills</u> Tutoring Category	Fall 2014		
	Enrolled	Success	Rate
Tutored Students	29	12	41.4%
Non-Tutored Student	624	355	56.9%
Difference in Rates			-15.5 pp

Success Rate Formula  
(Number of A, B, C or P grades *divided by*  
(Number of A through W grades) *times* 100

Note: pp = percentage point/s

• **Demographics of Tutored Students**

In the table below, fall 2014 tutored students, whose Student IDs were matched to grade records, are categorized by ethnicity and gender. Students are counted for each course in which they received tutoring. Success rates for each demographic group are indicated in the right-hand column.

Demographic Characteristic Demographic Group	Students		Successful	
	Count	Percent	Number	Rate
<b>Ethnicity</b>				
Asian	3	1.8%	1	33.3%
Black or African American	5	2.9%	2	40.0%
Hispanic	105	61.1%	72	68.6%
Native American	3	1.7%	1	33.3%
Pacific Islander	0	--	--	--
Two or More Ethnicities	7	4.1%	5	71.4%
White	47	27.3%	34	72.3%
Unreported or Not Available	2	1.1%	1	50.0%
<b>Totals</b>	<b>172</b>	<b>100.0%</b>	<b>116</b>	<b>67.4%</b>
<b>Gender</b>				
Female	100	58.14%	69	69.0%
Male	70	40.70%	45	64.3%
Unreported or Not Available	2	1.16%	2	100.0%
<b>Totals</b>	<b>172</b>	<b>100.0%</b>	<b>116</b>	<b>67.4%</b>

▪ **Ethnicity:** Hispanic students accounted for the greatest percentage of tutored students: **61%**.

▪ **Gender:** The majority of tutored students were female: **58%**.

▪ **FINAL GRADES**

To obtain a final grade for a course in which a student was tutored, the **Student ID** (900 Number) and the **Course ID** are required. The SARS “Reason Code” is the data element in which the Course ID can be entered. If a student has one/more tutoring sessions and a Course ID is **not** entered for at least one session, then a match to the Grades File cannot be made.

In **fall 2014**, **244** students were tutored in **299** courses for which a Course ID was entered in SARS. Of those **299**, **172 (58%)** were matched to a grades record. The remaining **127** SARS records were not matched to a grades record because (a) the students had dropped the courses, (b) incorrect Course IDs were entered in SARS, or (c) incorrect Student IDs were entered in SARS. Of the **244** students who received tutoring, the Student IDs for **24** students were not able to be matched to **any** VC course records (in Banner).

▪ **DATA TABLES**

<u>Item</u>	<u>Page</u>
Success Rates by Course	3
Success Rate Comparisons	4

**VENTURA COLLEGE**  
Office of Research and Evaluation  
**Fall 2014 – Math Center**

■ **SUCCESS RATES BY COURSE**

This table indicates the courses in which students received tutoring.  
Successful refers to the number of students receiving an A, B, C, or P in the course.

Course	Fall 2014				
	Tutor Sessions Per Course	Course Enrollments	Course Enrollments with Grades		
			Count	Successful	Success Rate
MATH V01	90	37	20	10	50.0%
MATH V02	8	2	2	2	100.0%
MATH V03	376	101	44	32	72.7%
MATH V04	85	36	29	26	89.7%
MATH V05	13	8	2	2	100.0%
MATH V10	14	9	6	2	33.3%
MATH V11A	8	7	3	0	0.0%
MATH V12	10	5	5	3	60.0%
MATH V20	5	4	2	1	50.0%
MATH V21A	31	18	11	7	63.6%
MATH V21B	4	3	3	2	66.7%
MATH V21C	3	2	2	1	50.0%
MATH V23	1	1	1	1	100.0%
MATH V35	12	6	3	3	100.0%
MATH V40	1	1	0	--	--
MATH V44	131	55	37	23	62.2%
MATH V46	8	4	2	1	50.0%
<b>Totals/Av. %</b>	<b>800</b>	<b>299</b>	<b>172</b>	<b>116</b>	<b>67.4%</b>

■ **SUCCESS RATE COMPARISONS**

This table compares the course success rates of tutored students to those of non-tutored students. The non-tutored students were enrolled in the **same** course sections as the tutored students.

Overall difference in success rates of tutored students and non-tutored students is **9.5** points, or **16%**.

Fall 2014 Course	Total Number Enrolled	Tutored Students			Non- Tutored Students			Difference (A) – (B)	
		Count	Successful		Count	Successful		Points	Percent
			Num.	(A) Rate		Num.	(B) Rate		
MATH V01	437	20	10	50.0%	417	232	55.6%	- 5.6	- 10.1%
MATH V02	36	2	2	100.0%	34	17	50.0%	50.0	100.0%
MATH V03	466	44	32	72.7%	422	247	58.5%	14.2	24.3%
MATH V04	276	29	26	89.7%	247	124	50.2%	39.5	78.6%
MATH V05	81	2	2	100.0%	79	46	58.2%	41.8	71.7%
MATH V10	169	6	2	33.3%	163	104	63.8%	- 30.5	- 47.8%
MATH V11A	47	3	0	0.0%	44	19	43.2%	- 43.2	-100.0%
MATH V12	85	5	3	60.0%	80	44	55.0%	5.0	9.1%
MATH V20	82	2	1	50.0%	80	50	62.5%	- 12.5	- 20.0%
MATH V21A	168	11	7	63.6%	157	95	60.5%	3.1	5.2%
MATH V21B	88	3	2	66.7%	85	56	65.9%	0.8	1.2%
MATH V21C	38	2	1	50.0%	36	22	61.1%	- 11.1	- 18.2%
MATH V23	27	1	1	100.0%	26	22	84.6%	15.4	18.2%
MATH V35	26	3	3	100.0%	23	13	56.5%	43.5	76.9%
MATH V44	501	37	23	62.2%	464	272	58.6%	3.5	6.0%
MATH V46	29	2	1	50.0%	27	18	66.7%	- 16.7	- 25.0%
<b>Tot/Av Rate</b>	<b>2,556</b>	<b>172</b>	<b>116</b>	<b>67.4%</b>	<b>2,384</b>	<b>1,381</b>	<b>57.9%</b>	<b>9.5</b>	<b>16.4%</b>