

▪ **SUMMARY**

• **Introduction**

The Ventura College **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 students at all mathematics levels in acquiring the skills they need to succeed in their current math class.

The study period consists of the **spring 2014** term. Data for the study were extracted from SARS-GRID (Math Center tutoring sessions) and the VCCCD Banner System (final grades).

• **Overview**

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

Tutoring Category	Spring 2014
A. Number of Courses in which Tutoring was Provided	11
B. Unduplicated Number of Tutored Students	79
C. Unduplicated Number of Basic-Skills Students	62
D. Number of Student Visits to the Math Center	288
E. Number of Student-Discipline Sessions	284

Explanations of Tutoring Categories:

SARS-GRID creates multiple records for each tutoring session. For example, a student who received tutoring in ENGL V03 would have a "History Code" record for that date plus a "Reason Code" record of ENGL V03 and possibly another record with a "Reason Code" of AA/RW (Reading Writing Center).

- (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": Count of students who were coded **AABSKSKL** one/more times; even if there were no associated records with "Reason Codes" identifying specific basic skills.
- (D) "Number of Student Visits to the Reading/Writing Center": Count of individual "History ID" numbers. A "History ID" number is created for every student-tutoring session. The "History ID" number may have more than one "Reason Code" associated with it, e.g., AA/RW, AABSKSKL, and ENGL V03.
- (E) "Number of Student-Discipline Sessions": Count of all "Reason Codes" that are either a Subject Area (e.g., ENGL) or a Course ID (e.g., ENGL V03). Row (E) can be less than Row (D) as a result of staff not creating "Reason Code" records when students visit the RWC.

• **Success Rates in Basic Skills Courses**

In spring 2014, the overall success rate for students who received tutoring in MATH V01, MATH V10, or MATH V11 was **higher** than the corresponding rate for non-tutored students in the same sections.

Basic Skills Tutoring Category	Spring 2014		
	Enrolled	Success	Rate
Tutored Students	17	9	52.9%
Non-Tutored Student	404	156	38.6%
Difference in Rates			14.3 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, spring 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
Ethnicity				
Asian / Pacific Islander	2	3.3%	2	100.0%
Black or African American	--	--	--	--
Hispanic	30	50.0%	21	70.0%
Native American	1	1.7%	0	0.0%
Two or More Ethnicities	3	5.0%	1	33.3%
White	23	38.3%	17	73.9%
Unreported or Not Available	1	1.7%	1	100.0%
Totals	60	100.0%	42	70.0%
Gender				
Female	41	68.3%	28	68.3%
Male	18	30.0%	14	77.8%
Unreported or Not Available	1	1.7%	0	0.0%
Totals	60	100.0%	42	70.0%

- **Ethnicity:** **Hispanic** students accounted for the greatest percentage of tutored students: **50%**.
- **Gender:** The majority of tutored students were **female: 68%**.

▪ **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. **Thirty-four** students had only AA/RW or AABSKSKL “Reason Codes”, so there was no way to determine in which course/s they received tutoring. Tutoring Records which were not matched to grade records are related to courses which students dropped during the first weeks of the term.

Category	Number	Percent
A. Students with <u>only</u> AA/RW or AABSKSKL “Reason Codes”	0	0%
B. Students with <u>one</u> or <u>more</u> Discipline (or Course) “Reason Codes”	79	100%
C. Students who Received Tutoring at the Math Center	79	100%
D. Tutoring related to a Discipline (or Course) “Reason Code”	88	100%
E. Tutoring Records which were <u>not</u> matched to a Banner Grade Record	28	32%
F. Tutoring Records which were matched to a Banner Grade Record	60	68%

Note: Because several students received tutoring in more than one course, the number in **Row D (88)** is greater than the number of students who received tutoring (**Row C, 79**).

▪ **DATA TABLES**

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Office of Research and Evaluation
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■ **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 discipline or course.

Course	Spring 2014				
	No. of Student Tutoring Sessions	Number of Students	Students with Grades		
			Count	Successful	Success Rate
MATH V01	48	19	13	8	61.5%
MATH V03	195	41	26	22	84.6%
MATH V04	1	1	1	1	100.0%
MATH V05	5	3	2	1	50.0%
MATH V10	8	4	2	0	0.0%
MATH V11B	3	3	2	1	50.0%
MATH V20	1	1	1	1	100.0%
MATH V35	2	2	1	1	100.0%
MATH V40	1	1	1	0	0.0%
MATH V44	18	11	9	6	66.7%
MATH V46	2	2	2	1	50.0%
Totals/Av. %	284	88	60	42	70.0%

■ **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.

The overall difference in the success rates of tutored students and non-tutored students is **24.4** points,
or **54%**.

Spring 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	349	13	8	61.5%	336	118	35.1%	26.4	75.2%
MATH V03	333	26	22	84.6%	307	142	46.3%	38.4	82.9%
MATH V04	39	1	1	100.0%	38	14	36.8%	63.2	171.4%
MATH V05	85	2	1	50.0%	83	50	60.2%	-10.2	-17.0%
MATH V10	42	2	0	0.0%	40	19	47.5%	-47.5	-100.0%
MATH V11B	30	2	1	50.0%	28	19	67.9%	-17.9	-26.3%
MATH V20	45	1	1	100.0%	44	18	40.9%	59.1	144.4%
MATH V35	18	1	1	100.0%	17	13	76.5%	23.5	30.8%
MATH V40	32	1	0	0.0%	31	17	54.8%	-54.8	-100.0%
MATH V44	172	9	6	66.7%	163	86	52.8%	13.9	26.4%
MATH V46	33	2	1	50.0%	31	14	45.2%	4.8	10.7%
Tot/Av Rate	1,178	60	42	70.0%	1,118	510	45.6%	24.4	53.5%