

Ventura College
Office of Research and Evaluation
Peer Mentoring Program 2013–2014

■ **SUMMARY**

● **Introduction**

The **Ventura College Peer Mentoring Program**, sponsored by the college's Title V *Velocidad* Grant, was implemented in fall 2013 and consisted of 20 volunteer mentors and 208 mentees. Mentors met with their assigned mentees several times throughout the 2013–2014 academic year. A second group of mentors and mentees is currently (summer 2014) being formed for the 2014–2015 academic year.

The mission of the Peer Mentoring Program is to assist first year VC students in their transition to college life by providing motivation and encouragement and by connecting them to campus programs and services.

This report compares academic outcomes of 2013–2014 mentees to academic outcomes of a comparable group. Since mentees were selected from fall 2013 VC Promise students, it was decided that the comparison group would be composed of the non-mentored fall 2013 Promise students.

● **Demographics**

There were **208** mentees and **726** non-mentees in this study. The table below highlights the demographic groups that constituted the majority of students in both the mentee and non-mentee populations. It is worth noting that **females** accounted for **70%** of mentees compared to **51%** of non-mentees.

Demographic Group	Mentees		Non- Mentees	
	Number	Percent	Number	Percent
Hispanic	159	76%	502	69%
Female	145	70%	373	51%
18 years of age	174	84%	592	82%
1st-generation college	147	71%	482	66%
AA/AS and/or Transfer	182	87%	628	86%

● **Fall 2013 Outcomes**

The course success rate for mentees was **78.4%** versus **75.7%** for non-mentees; a **2.7** percentage point difference. This difference in success rates is **not** statistically significant.

Fall 2013 Groups	Successful		Retained		Total Count
	Count	Rate	Count	Rate	
Mentee	650	78.4%	755	91.1%	829
Non-Mentee	2,119	75.7%	2,507	89.5%	2,801

● **Spring 2014 Outcomes**

The persistence rate for mentees was **99.0%** compared to **93.3%** for non-mentees; a **5.7** percentage point difference. This difference in persistence rates **is** statistically significant.

The course success rates for non-mentees exceeded the success rate for mentees by **3.0** points, which is **not** a statistically significant difference.

Spring 2014 Groups	Successful		Retained		Total Count
	Count	Rate	Count	Rate	
Mentee	608	70.5%	716	83.1%	862
Non-Mentee	2,069	73.5%	2,449	87.0%	2,815

■ **BACKGROUND**

The **Ventura College Peer Mentoring Program** was implemented in fall 2013 by Bill Hart (Director of the college's Title V–*Velocidad* Grant) and Gema Espinoza (Student Outreach Specialist).

The mission of the Peer Mentoring Program is to assist first year VC students in their transition to college life by providing motivation and encouragement and by connecting them to campus programs and services.

A cadre of twenty (20) volunteer Peer Mentors was recruited from the following student organizations/areas: Associated Students (ASVC), SHP/MESA, AGS, and the Welcome Center (Student Workers). Mentees were selected from fall 2013 VC Promise recipients who demonstrated a desire to be in the mentoring program.

For the 2014–2015 academic year, the Peer Mentoring Program will be coordinated by Bill Hart and Rachel Marchioni (Peer Mentoring Program Project Specialist).

■ **PURPOSE OF THE REPORT**

The purpose of this report is to compare academic outcomes of mentees to the academic outcomes of a comparable group. Since **mentees** were selected from fall 2013 VC Promise students, it was decided that the **non-mentee** comparison group would be the non-mentored fall 2013 Promise students.

The groups will be compared on the bases of demographics, fall 2013 course outcomes, persistence to spring 2014, and spring 2014 course outcomes

■ **MENTEES AND COMPARISION GROUP**

The initial group of mentees consisted of **218** students, **216** of whom actually enrolled in fall 2013 (**Table A**). Of the **216** enrollees, **212** received one/more final grades. The four (**4**) mentees who were not VC Promise students (i.e., their Banner VC-Promise-Ind = N), have been excluded from the mentee evaluation group.

Table A. Mentees: Total Enrollments and Final Grades

Category	Mentees			Course Count	Total Units
	Total	VC Promise	Non-Prom.		
Fall 2013: Gema's Excel File	218	---	---	---	---
Fall 2013: VCCCD Enrolled	216	212	4	1,025	3,189.0
Fall 2013: VCCCD Final Grades	212	208	4	843	2,908.5

Data regarding the mentee and non-mentee groups are indicated in **Table B**. A total of **208** mentees are compared to **726** non-mentees (green row, below). Mentees received grades in **829** courses (**2,866.5** units) and non-mentees received grades in **2,801** courses (**9,497.5** units). Percentages of “final grades” to “enrollments” are virtually equivalent for both groups (blue row, below).

Table B. Mentee and Non-Mentee Groups

Category	Mentees			Non-Mentees		
	Students	Courses	Units	Students	Courses	Units
Fall 2013: VCCCD Enrolled	212	1,008	3,138.0	732	3,393	10,420.5
Fall 2013: VCCCD Final Grades	208	829	2,866.5	726	2,801	9,497.5
Percentage with Final Grades	98.1%	82.2%	91.3%	99.2%	82.5%	91.1%

The **mentee** group consists of **208** students and the **non-mentee** group consists of **726** students.

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■ **DEMOGRAPHICS**

Most Ventura College Promise students were **Hispanic**: **71%** ((661 ÷ 934) x 100)
 The majority of mentees and non-mentees were **Hispanic**: **76%** and **69%**, respectively
Females accounted for the majority of mentees and non-mentees: **70%** and **51%**, respectively
 The great majority of mentees and non-mentees were **18 years of age**: **84%** and **82%**, respectively
 Most mentees and non-mentees were **1st-Generation** college students: **71%** and **66%**, respectively
 Most mentees and non-mentees desired to earn an **AA/AS and/or Transfer**: **87%** and **86%**, respectively

Demographic Characteristics Groups	Mentees		Non-Mentees		Difference in Percentages	
	Number of Students	Percent	Number of Students	Percent	Number	Percent
Ethnicity						
Asian	10	4.8%	23	3.2%		
Black	4	1.9%	14	1.9%		
Hispanics	159	76.4%	502	69.1%	7.3	10.6%
Pacific Islander	0	0.0%	1	0.1%		
Two/More Ethnicities	6	2.9%	28	3.9%		
Whites	28	13.5%	156	21.5%		
Unreported	1	0.5%	2	0.3%		
Total	208	100.0%	726	100.0%		
Gender						
Female	145	69.7%	373	51.4%	18.3	35.6%
Male	62	29.8%	345	47.5%		
Unreported	1	0.5%	8	1.1%		
Total	208	100.0%	726	100.0%		
Age in Fall 2013						
16 years old	1	0.5%	1	0.1%		
17 years old	2	2.0%	13	1.8%		
18 years old	174	83.7%	592	81.6%	2.1	2.6%
19 years old	28	13.4%	113	15.6%		
20 years old	3	1.4%	5	0.7%		
23 years old	--	--%	1	0.1%		
31 years old	--	--%	1	0.1%		
Total	208	100.0%	726	100.0%		
1st Generation College Status						
1st-Generation Student	147	70.7%	482	66.4%	4.3	6.5%
Not 1st-Generation Student	61	29.3%	244	33.6%		
Total	208	100.0%	726	100.0%		
Educational Goal						
Earn AA/AS and Transfer	134	64.4%	497	68.5%		
Transfer without AA/AS	36	17.3%	89	12.3%		
AA/AS without Transfer	12	5.8%	42	5.8%		
AA/AS and/or Transfer	182	87.5%	628	86.6%	0.9	1.0%
All Other Educational Goals	26	12.5%	98	13.4%		
Total	208	100.0%	726	100.0%		

Points Difference in Percentages = Mentees Percent – Non-Mentees Percent

Percentage Difference in percentages = ((Mentees Percent – Non-Mentees Percent) / (Non-Mentees Percent)) x 100

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■ **FALL 2013 – COURSE OUTCOMES**

Course outcomes data and grades distributions for mentees and non-mentees appear in the tables below. The course success rate for mentees was **2.7** points higher than the success rate for non-mentees. However, the difference in success rates (**2.7** points) is **not** statistically significant (see Statistical Tests on page 12).

Groups	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Mentee	650	78.4%	755	91.1%	829	222	228	158	42	43	56	6	74
Non-Mentee	2,119	75.7%	2,507	89.5%	2,801	890	628	503	98	159	214	15	294
Groups	Total Students		Percentage of Students by Grade Notation										
	Count	Percent	A	B	C	P	D	F	NP	W			
Mentee	829	100.0%	26.8%	27.5%	19.1%	5.1%	5.2%	6.8%	0.7%	8.8%			
Non-Mentee	2,801	100.0%	31.8%	22.4%	18.0%	3.5%	5.7%	7.6%	0.5%	10.5%			

Demographic Characteristics Groups	Mentees		Non-Mentees		Difference in Success Rates	
	Number of Grades	Success Rate	Number of Grades	Success Rate	Points	Percent
Ethnicity						
Asian	44	79.5%	98	88.8%	- 9.3	- 10.5%
Black	18	94.4%	55	72.7%	21.7	29.8%
Hispanic Students	629	76.9%	1,894	72.3%	4.6	6.4%
Pacific Islander	--	--	4	50.0%	--	--
Two/More Ethnicities	24	79.2%	116	81.0%	- 1.8	- 2.2%
White Students	110	82.7%	625	83.0%	0.3	0.4%
Unreported	4	100.0%	9	88.9%	11.1	12.5%
Total	829	78.4%	2,801	75.7%	2.7	3.6%
Gender						
Female	568	77.3%	1,432	77.4%	- 0.1	- 0.1%
Male	257	80.5%	1,335	73.4%	7.1	9.7%
Unreported	4	100.0%	34	88.2%	1.8	2.0%
Total	829	78.4%	2,801	75.7%	2.7	3.6%
Age in Fall 2013						
16 years old	4	75.0%	4	100.0%	- 25.0	- 25.0%
17 years old	10	90.0%	50	70.0%	20.0	28.6%
18 years old	702	78.6%	2,292	76.0%	2.6	3.4%
19 years old	101	74.3%	431	74.0%	0.3	0.4%
20 years old	12	91.7%	16	75.0%	16.7	22.2%
23 years old	--	--	4	75.0%	--	--
31 years old	--	--	4	75.0%	--	--
Total	829	78.4%	2,801	75.7%	2.7	3.6%
1st-Generation College						
1st-Generation Student	569	76.3%	1,812	73.2%	3.1	4.2%
Not 1st-Generation Student	260	83.1%	989	80.1%	3.0	3.7%
Total	829	78.4%	2,801	75.7%	2.7	3.6%

Points Difference in Success Rates = Mentees Success Rate – Non-Mentees Success Rate

Percentage Difference in Success Rates = ((Mentees Success Rate – Non-Mentees Success Rate) / (Non-Mentees Success Rate)) x 100

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■ **SPRING 2014 – COURSE OUTCOMES AND PERSISTENCE**

Course outcomes data and grades distributions for mentees and non-mentees appear in the tables below. The course success rate for non-mentees is **3.0** points higher than for mentees (**not** statistically significant). The persistence rate for mentees is **5.7** points higher than for non-mentees which **is** statistically significant).

Groups	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Mentee	608	70.5%	716	83.1%	862	251	205	139	13	44	62	2	146
Non-Mentee	2,069	73.5%	2,449	87.0%	2,815	872	684	474	39	164	209	7	366
Groups	Total Students		Percentage of Students by Grade Notation										
	Count	Percent	A	B	C	P	D	F	NP	W			
Mentee	862	100.0%	29.1%	23.8%	16.1%	1.5%	5.1%	7.2%	0.3%	16.9%			
Non-Mentee	2,815	100.0%	31.0%	24.3%	16.8%	1.4%	5.8%	7.4%	0.3%	13.0%			

Demographic Characteristics Groups	Mentees			Non-Mentees			Difference in Persistence Rates	
	Persistence			Persistence			Points	Percent
	Fall '13	Spr '14	Rate	Fall '13	Spr '14	Rate		
Ethnicity								
Asian	10	10	100.0%	23	23	100.0%	0.0	0.0%
Black	4	4	100.0%	14	13	92.9%	7.1	7.6%
Hispanic Students	159	157	98.7%	502	464	92.4%	6.3	6.8%
Pacific Islander	6	6	100.0%	1	1	100.0%	0.0	0.0%
Two/More Ethnicities	28	28	100.0%	28	27	96.4%	3.6	3.7%
White Students	1	1	100.0%	156	147	94.2%	5.8	6.2%
Unreported	10	10	100.0%	2	2	100.0%	0.0	0.0%
Total	208	206	99.0%	726	677	93.3%	5.7	6.1%
Gender								
Female	145	143	98.6%	373	351	94.1%	4.5	4.8%
Male	62	62	100.0%	345	319	92.5%	7.5	8.1%
Unreported	1	1	100.0%	8	7	87.5%	12.5	14.3%
Total	208	206	99.0%	726	677	93.3%	5.7	6.1%
Age in Fall 2013								
16 years old	1	1	100.0%	1	1	100.0%	0.0	0.0%
17 years old	2	2	100.0%	13	11	84.6%	15.4	18.2%
18 years old	174	172	98.9%	592	554	93.6%	5.3	5.7%
19 years old	28	28	100.0%	113	105	92.9%	7.1	7.6%
20 years old	3	3	100.0%	5	5	100.0%	0.0	0.0%
23 years old	--	--	--	1	1	100.0%	--	--
31 years old	--	--	--	1	0	0.0%	--	--
Total	208	206	99.0%	726	677	93.3%	5.7	6.1%
1st-Generation College								
1st-Generation	147	146	99.3%	482	446	92.5%	6.8	7.4%
Not 1st-Generation	61	60	98.4%	244	231	94.7%	3.7	3.9%
Total	208	206	99.0%	726	677	93.3%	5.7	6.1%

Points Difference in Success Rates = Mentees Success Rate – Non-Mentees Success Rate

Percentage Difference in Success Rates = ((Mentees Success Rate – Non-Mentees Success Rate) / (Non-Mentees Success Rate)) x 100

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■ **DATA TABLES**

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■ **DEMOGRAPHICS TABLES**

● **Educational Goal**

Most mentees and non-mentees desired to earn an AA/AS with or without transfer: **87%** and **86%**, respectively. Eighty-seven percent (**87%**) of all VC Promise students desired to earn an AA/AS with or without transfer $((810 \div 934) \times 100)$.

Educational Goal		Students by Educational Goal			
		Mentees	Non-Mentees	Mentees	Non-Mentees
Code	Description				
A	Earn AA/AS and Transfer to 4-year	134	497	64.42%	68.46%
B	Transfer to 4-year without AA/AS	36	89	17.31%	12.26%
C	Earn AA/AS without Transfer to 4-year	12	42	5.77%	5.79%
	Earn AA/AS with or without Transfer	182	628	87.50%	86.51%
D	Earn 2-year Certificate w/out Transfer	2	5	0.96%	0.69%
E	Earn Voc. Certificate w/out Transfer	1	2	0.48%	0.28%
F	Formulate Career Plans/Goals	0	7	0.00%	0.96%
G	Acquire Job Skills / New Career	2	10	0.96%	1.38%
H	Update Job Skills / Job Advance	0	2	0.00%	0.28%
I	Maintain Certificate or License	1	0	0.48%	0.00%
J	Educational Development	0	5	0.00%	0.69%
K	Improve Basic Skills	3	3	1.44%	0.41%
L	Complete Credits for HS Diploma	6	11	2.88%	1.52%
M	Undecided on goal	8	42	3.85%	5.79%
O	Take courses to meet 4-year degree	3	11	1.44%	1.52%
Total		208	726	100.00%	100.00%

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• **High School Attended**

The top four high schools attended by **mentees** were:

Pacifica HS (16.35%), Santa Paula Union HS (12.02%), Oxnard HS (9.62%), and Ventura HS (8.65%)

The top four high schools attended by **non-mentees** were:

Buena HS (14.33%), Pacifica HS (11.85%), Ventura HS (11.43%), and Rio Mesa HS (11.29%)

High School Attended		Students by High School			
		Mentees	Non-Mentees	Mentees	Non-Mentees
Code	Description				
563079	Buena High School	16	104	7.69%	14.33%
563161	Camarillo High School	5	12	2.40%	1.65%
563174	Channel Islands High School	13	17	6.25%	2.34%
563181	Chaparral High School	0	1	0.00%	0.14%
563029	El Camino High School	3	27	1.44%	3.72%
620447	El Shaddai Academy	1	1	0.48%	0.14%
563202	Fillmore Senior High School	16	26	7.69%	3.58%
563034	Foothill Tech High School	10	40	4.81%	5.51%
563006	Frontier High School	0	2	0.00%	0.28%
403019	Grizzly Challenge Charter School	0	1	0.00%	0.14%
564243	Happy Valley School	0	1	0.00%	0.14%
691740	Home School	0	2	0.00%	0.28%
563284	Hueneme High School	10	29	4.81%	3.99%
563300	Mar Vista Continuation High School	1	4	0.48%	0.55%
563325	Moorpark Memorial High School	0	6	0.00%	0.83%
564366	Newbury Park Adventist Academy	0	1	0.00%	0.14%
563374	Newbury Park High School	2	10	0.96%	1.38%
563407	Nordhoff High School	6	13	2.88%	1.79%
563448	Oxnard Adult School	1	0	0.48%	0.00%
563454	Oxnard High School	20	56	9.62%	7.71%
563027	Pacific High (Continuation) Ventura	0	2	0.00%	0.28%
563038	Pacifica High School, Oxnard	34	86	16.35%	11.85%
563617	Renaissance High School	2	2	0.96%	0.28%
563476	Rio Mesa High School	12	82	5.77%	11.29%
563500	Royal High School	1	1	0.48%	0.14%
564536	Santa Clara High School	2	12	0.96%	1.66%
563577	Santa Paula Union High School	25	57	12.02%	7.85%
563618	Simi Valley High School	0	2	0.00%	0.28%
708796	St Augustine Academy - Ventura	0	1	0.00%	0.14%
564486	St. Bonaventure High School	4	16	1.92%	2.21%
563700	Thousand Oaks High School	1	5	0.48%	0.69%
563781	Ventura Adult School	0	1	0.00%	0.14%
708797	Ventura County Christian HS	0	1	0.00%	0.14%
563782	Ventura High School	18	83	8.65%	11.43%
010990	Vista Real Charter High School	0	1	0.00%	0.14%
563011	Westlake High School	1	0	0.48%	0.00%
56XXXX	Other Ventura County high school	1	2	0.48%	0.28%
5XXXXX	Unknown California high school	3	19	1.44%	2.62%
Total		208	726	100.00%	100.00%

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• **Ventura College Major**

Mentees and non-mentees chose a variety of majors. Nursing Science is the top major for both groups, with mentees at **13.46%** and non-mentees at **10.19%**.

Ventura College Major Code Description		Students by VC Major			
		Mentees	Non-Mentees	Mentees	Non-Mentees
1234	Accounting	1	13	0.48%	1.79%
2105	Admin of Justice, CSU Transfer	1	1	0.48%	0.14%
1000	Art History for CSU Transfer	2	2	0.96%	0.28%
1256	Art, Fine Arts	1	12	0.48%	1.65%
0948	Automotive Technology	3	14	1.44%	1.93%
1267	Bilingual/Cross Cultural	1	1	0.48%	0.14%
1268	Biology, General	12	43	5.77%	5.92%
0431	Biotech: Plant Biotechnology	1	2	0.48%	0.28%
0430	Biotechnology	1	3	0.48%	0.41%
1278	Business	10	40	4.81%	5.51%
0505	Business Admin, CSU Transfer	8	13	3.85%	1.79%
0506	Business Management	3	22	1.44%	3.03%
1346	Child Development	8	13	3.85%	1.79%
1021	Commercial Art	1	2	0.48%	0.28%
3579	Communication Study, CSU Trans	5	7	2.40%	0.96%
1236	Criminal Justice	14	51	6.73%	7.02%
1390	Drafting: Electronic Design	0	1	0.00%	0.14%
1389	Drafting: Industrial Design	1	3	0.48%	0.41%
1305	Early Child. Education, CSU Transfer	1	5	0.48%	0.69%
1464	EMS: Paramedic Studies	1	9	0.48%	1.24%
1467	Engineering	5	36	2.40%	4.96%
0925	General Engineering Technology	2	5	0.96%	0.69%
4906	GS:ARTS AND HUMANITIES (P3)	4	11	1.92%	1.52%
3677	GS:LIB STUDIES/TEACHING, PII	1	11	0.48%	1.52%
3678	GS:LIBERAL STUDIES/TEACHING	1	8	0.48%	1.10%
4912	GS:SOCIAL/BEHAV SCI (P3)	2	8	0.96%	1.10%
4903	GS:ARTS AND HUMANITIES (P1)	9	28	4.33%	3.86%
4905	GS:ARTS AND HUMANITIES (P2/3)	12	52	5.77%	7.16%
4907	GS:NAT SCI OR MATHEMATICS (P3)	4	27	1.92%	3.72%
4902	GS:NAT SCIENCE OR MATHEMATICS	3	18	1.44%	2.48%
4904	GS:NATURAL SCIENCES	1	4	0.48%	0.55%
4910	GS:SOCIAL/BEHAV SCI (P1)	1	6	0.48%	0.83%
4911	GS:SOCIAL/BEHAV SCI (P2/3)	1	2	0.48%	0.28%
2000	High School Special Program	10	20	4.81%	2.75%
2205	History for CSU Transfer AA	3	4	1.44%	0.55%
4915	Holistic Studies	0	3	0.00%	0.41%
2348	Human Services	2	3	0.96%	0.41%
2360	International Studies	1	2	0.48%	0.28%
1244	Medical Assistant	2	9	0.96%	1.24%
2458	Music	2	9	0.96%	1.24%
1203	Nursing Science	28	74	13.46%	10.19%
2568	Photography	1	2	0.48%	0.28%
2207	Political Science, CSU Transfer	0	6	0.00%	0.83%
2001	Psychology, CSU Transfer	20	38	9.62%	5.23%
1003	Sculpture- 3-D Studio	0	1	0.00%	0.14%
2208	Sociology	4	12	1.92%	1.65%
1002	Studio Arts, CSU Transfer	0	4	0.00%	0.55%
1007	Theater Arts, CSU Transfer	0	4	0.00%	0.55%
3689	Theatre Arts	2	4	0.96%	0.55%
4700	TRANSFER STUDIES: IGETC	3	10	1.44%	1.38%
4701	TRANSFER STUDIES:CSU-GE	2	12	0.96%	1.65%
4579	Water Science: Wastewater	1	0	0.48%	0.00%
4580	Water Science: Water	0	2	0.00%	0.28%
4589	Welding	0	2	0.00%	0.28%
4500	Undecided/Undeclared	6	32	2.88%	4.41%
Total		208	726	100.00%	100.00%

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■ **FALL 2013 – Grades Distributions**

Table C. Ethnicity

Mentee Ethnicity	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Asian	35	79.5%	41	93.2%	44	19	9	6	1	1	5	0	3
Black	17	94.4%	18	100.0%	18	5	6	6	0	1	0	0	0
Hispanic	484	76.9%	569	90.5%	629	156	167	123	38	36	43	6	60
Pac Islander	0	--	--	--	--	--	--	--	--	--	--	--	--
Two/More	19	79.2%	22	91.7%	24	4	8	7	0	0	3	0	2
White	91	82.7%	101	91.8%	110	37	37	15	2	5	5	0	9
Unreported	4	100.0%	4	100.0%	4	1	1	1	1	0	0	0	0
Total	650	78.4%	755	91.1%	829	222	228	158	42	43	56	6	74

Non-Mentee Ethnicity	Successful		Retained		Total Cnt	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Asian	87	88.8%	94	95.9%	98	43	28	14	2	3	4	0	4
Black	40	72.7%	50	90.9%	55	23	8	6	3	4	6	0	5
Hispanic	1,369	72.3%	1,671	88.2%	1,894	509	414	363	83	121	167	14	223
Pac Islander	2	50.0%	3	75.0%	4	1	1	0	0	0	1	0	1
Two/More	94	81.0%	106	91.4%	116	50	26	16	2	4	7	1	10
White	519	83.0%	575	92.0%	625	260	150	102	7	27	29	0	50
Unreported	8	88.9%	8	88.9%	9	4	1	2	1	0	0	0	1
Total	2,119	75.7%	2,507	89.5%	2,801	890	628	503	98	159	214	15	294

Table D. Gender

Mentee Gender	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Female	439	77.3%	519	91.4%	568	142	156	109	32	34	42	4	49
Male	207	80.5%	232	90.3%	257	80	69	48	10	9	14	2	25
Unreported	4	100.0%	4	100.0%	4	0	3	1	0	0	0	0	0
Total	650	78.4%	755	91.1%	829	222	228	158	42	43	56	6	74

Non-Mentee Gender	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Female	1,109	77.4%	1,290	90.1%	1,432	469	343	235	62	75	97	9	142
Male	980	73.4%	1,185	88.8%	1,335	409	276	262	33	83	116	6	150
Unreported	30	88.2%	32	94.1%	34	12	9	6	3	1	1	0	2
Total	2,119	75.7%	2,507	89.5%	2,801	890	628	503	98	159	214	15	294

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Table E. Age

Mentee Age	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
16	3	75.0%	4	100.0%	4	1	1	1	0	0	1	0	0
17	9	90.0%	10	100.0%	10	2	4	3	0	1		0	0
18	552	78.6%	637	90.7%	702	198	191	130	33	35	45	5	65
19	75	74.3%	92	91.1%	101	19	25	24	7	7	9	1	9
20	11	91.7%	12	100.0%	12	2	7		2	0	1	0	0
23	--	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	650	78.4%	755	91.1%	829	222	228	158	42	43	56	6	74

Non-Mentee Age	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
16	4	100.0%	4	100.0%	4	4	0	0	0	0	0	0	0
17	35	70.0%	45	90.0%	50	22	11	1	1	2	8		5
18	1,743	76.0%	2,056	89.7%	2,292	727	517	420	79	128	171	14	236
19	319	74.0%	379	87.9%	431	132	97	73	17	25	34	1	52
20	12	75.0%	15	93.8%	16	3	1	7	1	2	1	0	1
23	3	75.0%	4	100.0%	4	1	1	1		1	0	0	0
31	3	75.0%	4	100.0%	4	1	1	1		1	0	0	0
Total	2,119	75.7%	2,507	89.5%	2,801	890	628	503	98	159	214	15	294

Table F. 1st-Generation-College Status

Mentee 1st Gen	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Yes	434	76.3%	513	90.2%	569	134	147	116	37	31	43	5	56
No	216	83.1%	242	93.1%	260	88	81	42	5	12	13	1	18
Total	650	78.4%	755	91.1%	829	222	228	158	42	43	56	6	74

Non-Mentee 1st Gen	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Yes	1,327	73.2%	1,612	89.0%	1,812	494	395	358	80	112	160	13	200
No	792	80.1%	895	90.5%	989	396	233	145	18	47	54	2	94
Total	2,119	75.7%	2,507	89.5%	2,801	890	628	503	98	159	214	15	294

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■ **SPRING 2014 – Grades Distributions**

Table G. Ethnicity

Mentee Ethnicity	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Asian	35	83.3%	37	88.1%	42	20	7	6	2	0	2	0	5
Black	17	85.0%	17	85.0%	20	5	8	4	0	0	0	0	3
Hispanic	437	67.8%	526	81.6%	645	173	155	100	9	35	52	2	119
Pac Islander	--	--	--	--	--	--	--	--	--	--	--	--	--
Two/More	18	64.3%	21	75.0%	28	9	5	4		2	1	0	7
White	98	79.7%	112	91.1%	123	44	28	24	2	7	7	0	11
Unreported	3	75.0%	3	75.0%	4	0	2	1	0	0	0	0	1
Total	608	70.5%	716	83.1%	862	251	205	139	13	44	62	2	146

Non-Mentee Ethnicity	Successful		Retained		Total Cnt	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Asian	94	83.9%	101	90.2%	112	41	32	20	1	5	2	0	11
Black	39	76.5%	46	90.2%	51	18	15	6	0	5	2	0	5
Hispanic	1,320	70.4%	1,623	86.5%	1,876	495	449	342	34	128	168	7	253
Pac Islander	10	100.0%	10	100.0%	10	1	1	8	0	0	0	0	
Two/More	100	83.3%	108	90.0%	120	60	24	16	0	3	5	0	12
White	499	78.5%	553	86.9%	636	253	162	82	2	22	32	0	83
Unreported	7	70.0%	8	80.0%	10	4	1	0	2	1	0	0	2
Total	2,069	73.5%	2,449	87.0%	2,815	872	684	474	39	164	209	7	366

Table H. Gender

Mentee Gender	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Female	396	67.9%	478	82.0%	583	159	133	93	11	33	47	2	105
Male	209	76.0%	235	85.5%	275	91	70	46	2	11	15	0	40
Unreported	3	75.0%	3	75.0%	4	1	2	0	0	0	0	0	1
Total	608	70.5%	716	83.1%	862	251	205	139	13	44	62	2	146

Non-Mentee Gender	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Female	1,076	74.6%	1,253	86.9%	1,442	473	358	222	23	71	105	1	189
Male	967	72.2%	1,166	87.0%	1,340	385	320	246	16	92	101	6	174
Unreported	26	78.8%	30	90.9%	33	14	6	6	0	1	3	0	3
Total	2,069	73.5%	2,449	87.0%	2,815	872	684	474	39	164	209	7	366

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Table I. Age (In fall 2013)

Mentee Age	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
16	1	50.0%	1	50.0%	2	1	0	0	0	0	0	0	1
17	9	90.0%	9	90.0%	10	3	4	2	0	0	0	0	1
18	511	70.4%	604	83.2%	726	205	180	115	11	38	53	2	122
19	78	70.3%	93	83.8%	111	39	18	20	1	6	9	0	18
20	9	69.2%	9	69.2%	13	3	3	2	1	0	0	0	4
23	--	--	--	--	--	--	--	--	--	--	--	--	--
31	--	--	--	--	--	--	--	--	--	--	--	--	--
Total	608	70.5%	716	83.1%	862	251	205	139	13	44	62	2	146

Non-Mentee Age	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
16	5	100.0%	5	100.0%	5	4	1	0	0	0	0	0	0
17	40	87.0%	42	91.3%	46	24	12	4	0	0	2	0	4
18	1,712	73.8%	2,037	87.8%	2,319	719	569	398	26	145	176	4	282
19	300	70.6%	351	82.6%	425	119	100	69	12	18	31	2	74
20	10	58.8%	12	70.6%	17	5	1	3	1	1	0	1	5
23	2	66.7%	2	66.7%	3	1	1	0	0	0	0	0	1
31	0	0.0%	0	0.0%	0	0	0	0	0	0	0	0	0
Total	2,069	73.5%	2,449	87.0%	2,815	872	684	474	39	164	209	7	366

Table J. 1st-Generation-College Status

Mentee 1st Gen	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Yes	396	66.1%	484	80.8%	599	158	136	94	8	32	54	2	115
No	212	80.6%	232	88.2%	263	93	69	45	5	12	8	0	31
Total	608	70.5%	716	83.1%	862	251	205	139	13	44	62	2	146

Non-Mentee 1st Gen	Successful		Retained		Total Count	Number of Students by Grade Notation							
	Count	Rate	Count	Rate		A	B	C	P	D	F	NP	W
Yes	1,249	69.4%	1,534	85.2%	1,800	472	425	325	27	127	152	6	266
No	820	80.8%	915	90.1%	1,015	400	259	149	12	37	57	1	100
Total	2,069	73.5%	2,449	87.0%	2,815	872	684	474	39	164	209	7	366

■ **STATISTICAL TESTS**

● **Fall 2013 – Course Success Rates**

▪ **Chi-Square Test**

		<u>Fall 2013</u>		
		<u>Mentoring Category</u>		
<u>Course Outcome</u>		<u>Non-Mentee</u>	<u>Mentee</u>	<u>Row Totals</u>
<u>Successful</u> Grade of A, B, C, P	A	2,119	B 650	2,769
<u>Not Successful</u> Grade of D, F, NP, W	C	682	D 179	861
<u>Column Totals</u>		2,801	829	3,630

	<u>Expected Frequencies</u>	<u>Individual Chi Squares</u>
Cell A:	$(2,769) \times (2,801) \div 3,630 = 2,136.6$	$(2,119 - 2,136.6)^2 \div 2,136.6 = 0.14$
Cell B:	$(2,769) \times (829) \div 3,630 = 632.4$	$(650 - 632.4)^2 \div 632.4 = 0.49$
Cell C:	$(861) \times (2,801) \div 3,630 = 664.4$	$(682 - 664.4)^2 \div 664.4 = 0.47$
Cell D:	$(861) \times (829) \div 3,630 = 196.6$	$(179 - 196.6)^2 \div 196.6 = 1.58$
	Total students = 3,336.0	Total Chi Square = 2.68

$df = (\text{row total} - 1) \times (\text{column total} - 1) = 1$

With $df = 1$, tabled value is **3.84**.

The *chi square* of **2.68** is below the tabled value of **3.84** and is, therefore, not significant at the **.05** level.

The success rate of students who received **peer mentoring** is not significantly different than for students who did not receive peer mentoring.

▪ **Phi Correlation Coefficient**

$\text{Phi} = \sqrt{\text{Chi Square} \div N} = \sqrt{2.68 \div 3,630} = \sqrt{0.000738292} = 0.0272 \approx \mathbf{.03}$

A **.03** correlation coefficient indicates no relationship between **course success** and **peer mentoring**.

• **Persistence – Fall 2013 to Spring 2014**

• **Chi-Square Test**

<u>Persistence Outcome</u>	<u>Mentoring Category</u>		<u>Row Totals</u>
	<u>Non-Mentee</u>	<u>Mentee</u>	
<u>Persisted to Spring 2014</u>	A	B	883
<u>Did not persist to Spring 2014</u>	C	D	51
<u>Column Totals</u>	726	208	934

	<u>Expected Frequencies</u>	<u>Individual Chi Squares</u>
Cell A:	$(883) \times (726) \div 934 = 686.4$	$(677 - 686.4)^2 \div 686.4 = 0.13$
Cell B:	$(883) \times (208) \div 934 = 196.6$	$(206 - 196.6)^2 \div 196.6 = 0.45$
Cell C:	$(51) \times (726) \div 934 = 39.6$	$(49 - 39.6)^2 \div 39.6 = 2.23$
Cell D:	$(51) \times (208) \div 934 = 11.4$	$(2 - 11.4)^2 \div 11.4 = 7.75$
	Total students = 934.0	Total Chi Square = 10.56

$$df = (\text{row total} - 1) \times (\text{column total} - 1) = 1$$

With $df = 1$, tabled value is **3.84**.

The *chi square* of **10.56** **exceeds** the tabled value of **3.84** and is, therefore, **significant** at the **.05** level.

The persistence rate of students who received **peer mentoring** is **significantly** higher than for students who did **not** receive peer mentoring.

• **Phi Correlation Coefficient**

$$\text{Phi} = \sqrt{\text{Chi Square} \div N} = \sqrt{10.56 \div 934} = \sqrt{0.01130621} = \mathbf{0.106 \approx .11}$$

A **.11** correlation coefficient indicates a **minimal** (weak) relationship between **persistence** and **peer mentoring**.