

Summer Advantage Summary 2016

The 2016 Summer Advantage Program included 3 components. The two workshop components were intended to advance students' placement in English and Math courses. The third component was a one day orientation to Norco College. In all, 1,058 students applied to the program and 606 were invited to attend a workshop and/or NOW. Four hundred and eighteen students completed the entire program (Workshop and NOW). The table below indicates the number of completers for each component.

Component	# Students
English Workshops	123
Math Workshops	229
NOW	530*

**12 of these students did not complete their assigned workshop and did not receive early registration.*

The table below indicates the number of levels advanced in the English workshops. The majority of students advanced two levels in the English series.

Number of Levels Advanced - English

English Levels Advanced	# Students	Percent
0	12	9.8%
1	35	28.5%
2	60	48.8%
3	16	13.0%

The table below indicates the number of levels advanced in the Math workshops. The majority of students did not advance in the math series.

Number of Levels Advanced - Math

Math Levels Advanced	# Students	Percent
0	134	58.5%
1	59	25.8%
2	34	14.8%
3	2	0.9%

Summer Advantage 2016 Analysis

An analysis of the Fall 2016 enrollment and success of Summer Advantage students was completed. Three-hundred and ninety-three of the 418 SA students enrolled past census in Fall 2016.

The overall success rates for all Fall 2016 enrollments were compared. This comparison includes all courses a student enrolled in, not just Math and English. All enrollments of SA participants were compared to all enrollments of first-time students at Norco College. There were 1,286 enrollments of SA participants and 868 (67.5%) received successful grades. The comparison group had a success rate of **61.4%**, with 1,584 of 2,581 enrollments receiving successful grades. There is a significant difference in course success ($t=3.779$, $p<.01$) and retention ($t=2.067$, $p=.039$) between groups, with the SA group being higher in both. SA students enrolled in 12.30 units on average, while all other first-time Norco students enrolled in 9.52 units on average.

	Success	Retention
SA Enrollments	67.5%*	89.3%*
First-time students Enrollments	61.4%	87.0%

**T-tests show that the differences between groups for success and retention are significant. Retention-Percentage of students who do not withdraw from class and receive a valid grade.*

The overall success of SA students compared to all other first time students at Norco College was disaggregated by gender and ethnicity.

	SA Student Success Rate		First time student success rate	
	Count	Success Rate	Count	Success Rate
Total	393	67.5%	951	61.4%
Female	190	66.9%	457	60.9%
Male	191	67.2%	475	61.9%
Unknown	12	80.0%	19	59.6%

	SA Student Success Rate		First time student success rate	
	Count	Success Rate	Count	Success Rate
Total	393	67.5%	951	61.4%
Asian/PI	21	76.6%	80	78.2%
African American	19	83.9%	54	46.0%
Hispanic	264	63.9%	561	57.5%
Native American/Alaskan			2	50.0%
White	3	66.7%	5	100.0%
Two or more races	86	72.5%	243	67.8%
Unknown			6	50.0%

Comparison of Average Units Attempted in Fall 2016

	Average Unit Course Load
Summer Advantage	12.30*
First-time students	9.52

**Significant difference (t=15.113, p<.01)*

Comparison of Math and English enrollments

	Enrolled in Math and English	Enrolled in Math or English	Not enrolled in Math or English	Did not Enroll
SA Participants	335/393 (85.2%)	48/393 (12.2%)	10/393 (2.5%)	25
First-Time Students	292/951 (30.7%)	326/951 (34.3%)	333/951 (35.0%)	n/a

Comparison of success rates with similar units/intensity- cohorts narrowed down to students who enrolled in at least one math or English Course and attempted 12 or more units in Fall 2016.

Comparison of Overall Success	Enrollments	Success Rate
Summer Advantage Students (n=288)	1023	69.5%*
All First-Time Students (n=353)	1302	63.9%

**Significant difference (t = 2.855, p = .004)*

English Analysis

Success rates were compared for SA English participants and all other students enrolled in the same English sections. Of the 123 SA English participants who completed the program, 105 enrolled in an English course in Fall 2016. Sixty-seven of these students succeeded in their English class (**63.8%**). The comparison group showed a success rate of **66.3%** (780/1177). A t-test to compare means was completed to see if the difference in success rates was significant. A t-value of 0.510 and a p-value greater than .05 were obtained. These success rates are not significantly different from each other. Success rates for SA English participants by the number of English levels advanced and by English course were done. The tables below indicate results.

	Success	Percent
SA English Participant	67/105	63.8%
Non-Participants	780/1177	66.3%

Not a significant difference (t=-0.510, p>.05)

English Levels Advanced	Count	Percent Successful
0	9/11	81.8%
1	19/28	67.9%
2	33/52	63.5%
3	6/14	42.9%
Total	67/105	63.8%

Course	SA English Participant		Non-Participants	
	Count	Percent Successful	Count	Percent Successful
English-60A	5/5	100%	92/112	82.1%
English-60B	5/6	83.3%	89/107	83.2%
English-50	30/47	63.8%	219/358	61.2%
English-80	7/12	58.3%	79/154	51.3%
English-1A	20/35	57.1%	302/449	67.3%
Total	67/105	63.8%	780/1177	66.3%

Math Analysis

Success rates were compared for Math SA participants and all other students enrolled in the same Math sections. Of the 229 SA Math participants who completed the program, 195 enrolled in a Math course in Fall 2016. One hundred and seventeen of these students succeed in their Math class (**60.0%**). The comparison group showed a success rate of **61.6%** (1534/2491). A t-test to compare means was completed to see if the difference in success rates was significant. A t-value of 0.437 and a p-value greater than .05 were obtained. The success rates of these two groups are not significantly different from each other. Success rates for SA Math participants by the number of Math levels advanced and by Math course were done. The tables below indicate results.

	Success	Percent
SA Math Participant	117/195	60.0%
Non-Participants	1534/2491	61.6%

Not a significant difference (t= -0.437, p>.05)

Math Levels Advanced	Count	Percent Successful
0	60/108	55.9%
1	30/54	55.6%
2	26/31	83.9%
3	1/2	50.0%
Total	117/195	60.0%

Course	SA Math Participant		Non-Participants	
	Count	Percent Successful	Count	Percent Successful
Math-64	1/1	100%	23/30	76.7%
Math-65	28/64	43.8%	204/333	61.3%
Math-52	35/46	76.1%	295/455	64.8%
Math-53	3/3	100%	91/133	68.4%
Math-35	29/49	59.2%	385/799	48.2%
Math-36	6/11	54.5%	109/161	67.7%
Math-11	3/5	60.0%	77/120	64.2%
Math-12	7/10	70.0%	226/292	77.4%
Math-25	1/1	100%	25/27	92.6%
Math-5	3/4	75.0%	72/92	78.3%
Math-1B	1/1	100%	27/49	55.1%
Total	117/195	60.0%	1534/2491	61.6%

Spring 2017 Analysis

Term-to-Term Persistence	Summer Advantage	All Other First-Time College Students
Fall 16-Spring 17	335/393*	705/951
	85.2%	74.1%
Fall 16-Fall 17	284/393*	538/951
	72.3%	56.6%

**Indicates significant difference between groups (t=4.859, p< .01)*

**Indicates significant difference between groups (t=5.656, p< .01)*

Pipeline Completion	Summer Advantage	All Other First-Time College Students
English	192/393*	180/951
	48.9%	18.9%
Math	92/393*	79/951
	23.4%	8.3%

**Indicates significant difference between groups (t=10.588, p<.01)*

**Indicates significant difference between groups (t=6.514, p< .01)*