



**16-Week and Intersession Comparison
FTES Generation and Success and Retention Rates
2014-15, 2015-16, and 2016-17 Academic Years**

Overview. At the request of the Associate Superintendent of Instruction and Institutional Effectiveness and to address questions raised by the 16-Week Calendar Committee, the Chaffey College Office of Institutional Research (OIR) recently examined various enrollment and outcome measures associated with colleges/districts on a 16-week primary term calendar. Specifically, the OIR examined FTES generation and success and retention rates of colleges/districts on a 16-week primary term in order to address the following research questions:

- 1) What was the primary term FTES difference pre/post 16-week conversion?
- 2) What was the primary term success/retention rate difference pre/post 16-week conversion?
- 3) Do FTES differences exist between the fall and spring semesters? If so, how pronounced are these differences?
- 4) Do success and retention rate differences exist between the fall and spring semesters? If so, how pronounced are these differences?
- 5) On average, how much less FTES is generated in the winter intersession than in the primary terms (fall and spring)?
- 6) What are the success and retention rate differences between the winter intersession and the fall/spring semesters?
- 7) For colleges/districts that offer a winter intersession, do FTES generation and success/retention rate differences exist between the winter intersession and the summer semester?

With the exception of research questions #1 and #2 (which are contingent upon each district/college's 16-week conversion year), data was examined for the past three full academic years (i.e., 2014-15, 2015-16, and 2016-17) in order to ensure that multiple data points existed for each semester/period being analyzed.

Methodology. In order to identify colleges/districts that were on some version of a 16-week calendar (16.0 weeks to 16.8 weeks), the OIR examined the 2017-18 term length multiplier list available on the California Community College Chancellor's Office website: (http://extranet.cccco.edu/Divisions/FinanceFacilities/FiscalServicesUnit/StudentAttendanceAccountingManual.aspx#Attendance_Accounting_/FTES). Table 1 identifies the colleges/districts that offered 16.0 - 16.8 week primary terms. The table also identifies when the district/college converted to an alternative length calendar and the length of the most recent academic year primary terms, winter intersession (if offered), and summer semester. Consistent with Chancellor's Office reporting, academic year begins in the summer semester (e.g., 2016-17 would comprise Summer 2016, Fall 2016, Winter Intersession 2017, and Spring 2017).

Table 1: Districts/Colleges With 16-Week Primary Term Calendars

District	College	Year Started on 16 wk.	Primary Term Length	Length of Winter Intersession	Length of Summer Semester
Antelope CCD	Antelope Valley	01-02	16.0	5 Weeks	8 Weeks
Cabrillo CCD	Cabrillo	98-99	16.0	Not Offered	8 Weeks
Citrus CCD	Citrus	07-08	16.2	6 Weeks	8 Weeks
Coast CCD	Coastline	01-02	16.0	4 Weeks	10 Weeks
	Golden West	01-02	16.0	4 Weeks	10 Weeks
	Orange Coast	01-02	16.0	4 Weeks	10 Weeks
Compton CCD	Compton	05-06	16.4	6 Weeks	8 Weeks
Desert CCD	College of the Desert	03-04	16.6	3 Weeks	9 Weeks
El Camino CCD	El Camino	02-03	16.4	6 Weeks	8 Weeks
Gavilan CCD	Gavilan	06-07	16.7	4 Weeks	6 Weeks
Glendale CCD	Glendale	01-02	16.5	6 Weeks	10 Weeks
Imperial CCD	Imperial Valley	05-06	16.0	5 Weeks	6 Weeks
Kern CCD	Bakersfield	02-03	16.3	Not Offered	12 Weeks
	Cerro Coso	02-03	16.3	Not Offered	12 Weeks
	Porterville	06-07	16.3	Not Offered	12 Weeks
Long Beach CCD	Long Beach	12-13	16.3	5 Weeks	10 Weeks
Los Angeles CCD	East Los Angeles	02-03	16.5	5 Weeks	11 Weeks
	LA City	01-02	16.5	5 Weeks	11 Weeks
	LA Harbor	01-02	16.5	5 Weeks	11 Weeks
	LA Mission	01-02	16.5	5 Weeks	11 Weeks
	LA Pierce	00-01	16.5	5 Weeks	11 Weeks
	LA Southwest	00-01	16.5	5 Weeks	11 Weeks
	LA Trade Tech	01-02	16.5	5 Weeks	11 Weeks
	LA Valley	00-01	16.5	5 Weeks	11 Weeks
	West Los Angeles	02-03	16.5	5 Weeks	11 Weeks
Mt. San Antonio CCD	Mt. San Antonio	06-07	16.2	6 Weeks	6 Weeks
North Orange County CCD	Cypress	12-13	16.0	4 Weeks	8 Weeks
	Fullerton	12-13	16.2	4 Weeks	8 Weeks
Ohlone CCD	Ohlone	06-07	16.4	Not Offered	8 Weeks
Palomar CCD	Palomar	16-17	16.7	Not Offered	12 Weeks
Pasadena Area CCD	Pasadena City	03-04	16.0	Not Offered	8 Weeks
Rancho Santiago CCD	Santa Ana	06-07	16.6	4 Weeks	8 Weeks
	Santiago Canyon	06-07	16.6	4 Weeks	8 Weeks
Redwoods CCD	College of the Redwoods	01-02	16.4	5 Weeks	12 Weeks
Rio Hondo CCD	Rio Hondo	05-06	16.7	4 Weeks	6 Weeks
Riverside CCD	Moreno Valley	10-11	16.4	6 Weeks	5 Weeks
	Norco	10-11	16.4	6 Weeks	5 Weeks
	Riverside	99-00	16.4	6 Weeks	5 Weeks
San Diego CCD	San Diego City	02-03	16.5	Not Offered	10 Weeks
	San Diego Mesa	02-03	16.5	Not Offered	10 Weeks
	San Diego Miramar	02-03	16.5	Not Offered	10 Weeks
San Jose-Evergreen CCD	Evergreen Valley	01-02	16.3	Not Offered	6 Weeks
	San Jose City	01-02	16.3	Not Offered	6 Weeks
Santa Barbara CCD	Santa Barbara	03-04	16.0	Not Offered	12 Weeks
Santa Clarita CCD	College of the Canyons	06-07	16.0	5 Weeks	11 Weeks
Santa Monica CCD	Santa Monica	91-92	16.0	6 Weeks	9 Weeks
Sierra CCD	Sierra College	05-06	16.0	Not Offered	8 Weeks
Siskiyou CCD	College of the Siskiyous	17-18	16.5	4 Weeks	9 Weeks
Southwestern CCD	Southwestern	15-16	16.2	Not Offered	4 Weeks
Victor Valley CCD	Victor Valley	04-05	16.0	6 Weeks	8 Weeks
West Valley-Mission CCD	Mission	03-04	16.2	4 Weeks	10 Weeks
	West Valley	02-03	16.2	4 Weeks	10 Weeks
Yosemite CCD	Columbia	02-03	16.4	Not Offered	15 Weeks
	Modesto	02-03	16.4	Not Offered	15 Weeks

Source: http://datamart.cccco.edu/Courses/Academic_Calendar.aspx

As table 1 illustrates, in the 2017-18 academic year 33 districts (45.8% of the community college district's statewide) and 54 colleges (47.4% of the community college's statewide) had Chancellor's Office approved academic calendars that offered 16-week primary terms. Among these districts/colleges, 23 districts (31.9% of the community college district's statewide) and 37 colleges (32.5% of the community college's statewide) offered a winter intersession.

For the purposes of the current study some districts/colleges were excluded from further analyses for a variety of factors. Since one of the goals of the current study is to examine differences in FTES generation, districts/colleges that offered a 16-week primary term but had a Chancellor's Office approved term length multiplier (TLM) of 17.0 were excluded since the TLM impacts all census procedure attendance accounting formulas. Additionally, analyses were further restricted to colleges/districts that were comparable in size to Chaffey College (+/- 33% unduplicated student headcount, based upon Fall 2017 semester enrollment). Districts/colleges with extreme anomalies (e.g., College of the Redwoods is the only institution that offered a winter intersession that started in December (12/17/17) and ended in mid-January (01/12/18); Columbia and Modesto Colleges in the Yosemite CCD offers summer semesters (15 weeks) that are almost as long as the primary terms (16.4 weeks)) were also excluded from analyses. Finally, districts/colleges that counted winter intersession days towards the 175-day minimum instructional day requirement were excluded from analyses. Regardless of their status relative to the aforementioned criteria, in order to examine districts/colleges that were geographically similar all contiguous districts/colleges were retained for analyses. Applying the aforementioned criteria, Table 2 illustrates which districts/colleges were retained for analyses; these districts/colleges are highlighted in green. In total, 18 colleges representing 12 districts were retained for analyses.

FTES data for identified districts/colleges was obtained through the Chancellor's Office DataMart. As reported in DataMart, *"the FTES value is calculated by summing "Total Hours" (MIS derived data element SXD4 "Total-Hours") in all enrollment records reported to the California Community College Chancellor's Office MIS during the requested period, then dividing by 525. If total hours cannot be derived because data is missing or set to "Unknown/Unreported," the enrollments are not included. All activity in classes eligible for state apportionment funding is included. This methodology is not the same as the methodology used in calculating FTES for CCFS-320 report."* Due to the reporting periods and methodology employed, some differences in FTES calculation may exist. Furthermore, MIS data is only as accurate as the integrity checks and review processes established by each individual district/college.

To identify success and retention rates, DataMart data was once again used. Success and retention rate calculations are based upon MIS data element SX04 (Enrollment-Grade). Consistent with operational definitions employed by the California Community College Chancellor's Office, success rate is defined as the number of A, B, C, or P grades earned on record divided by the total number of valid grades earned on record (i.e., all A, B, C, D, F, FW, P, NP, I, or W grades). Similarly, retention rate is defined as the number of A, B, C, D, F, FW, P, NP or I grades earned on record divided by the total number of valid grades earned on record (i.e., all A, B, C, D, F, FW, P, NP, I, or W grades).

Table 2: 16-Week Districts/Colleges - Reason for Excluding From Further Analyses

District	College	Reason(s) Excluded From Analyses			
		Fall 2017 Headcount Greater Than +/- 33%	17.0 TLM	Winter Intersession Counted in 175-Day Min.	Offering Anomalies
Antelope CCD	Antelope Valley	X	X	X	
Cabrillo CCD	Cabrillo	X	X	X	
Citrus CCD	Citrus				
Coast CCD	Coastline	X			
	Golden West	X			
	Orange Coast				
Compton CCD	Compton	X			
Desert CCD	College of the Desert	X			
El Camino CCD	El Camino				
Gavilan CCD	Gavilan	X			
Glendale CCD	Glendale			X	
Imperial CCD	Imperial Valley	X		X	
Kern CCD	Bakersfield				
	Cerro Coso	X			
	Porterville	X			
Long Beach CCD	Long Beach			X	
Los Angeles CCD	East Los Angeles	X			
	LA City				
	LA Harbor	X			
	LA Mission	X			
	LA Pierce				
	LA Southwest	X			
	LA Trade Tech				
	LA Valley				
	West Los Angeles	X			
Mt. San Antonio CCD	Mt. San Antonio				
North Orange County CCD	Cypress				
	Fullerton				
Ohlone CCD	Ohlone	X		X	
Palomar CCD	Palomar				
Pasadena Area CCD	Pasadena City				
Rancho Santiago CCD	Santa Ana	X		X	
	Santiago Canyon			X	
Redwoods CCD	College of the Redwoods	X			X
Rio Hondo CCD	Rio Hondo			X	
Riverside CCD	Moreno Valley				
	Norco				
	Riverside				
San Diego CCD	San Diego City	X			
	San Diego Mesa				
	San Diego Miramar	X			
San Jose-Evergreen CCD	Evergreen Valley	X		X	
	San Jose City	X		X	
Santa Barbara CCD	Santa Barbara		X	X	
Santa Clarita CCD	College of the Canyons		X	X	
Santa Monica CCD	Santa Monica		X	X	
Sierra CCD	Sierra College		X		
Siskiyou CCD	College of the Siskiyous	X			
Southwestern CCD	Southwestern			X	
Victor Valley CCD	Victor Valley				
West Valley-Mission CCD	Mission	X		X	
	West Valley	X		X	
Yosemite CCD	Columbia	X			X
	Modesto				X

Research Question #1: *What was the primary term FTES difference pre/post 16-week conversion?*

The academic year that each district/college converted to an alternative calendar is reported in tables 3 and 4. In table 3, FTES generated during the fall/spring semesters of the conversion year is compared to the FTES generated in the fall/spring semesters of the preceding year. Similarly, table 4 compares FTES generated in the conversion academic year (SU, FA, WI, and SP) to FTES generated in the preceding academic year (SU, FA, and SP).

Table 3: Fall & Spring Semester FTES Change, Pre/Post Calendar Conversion

College	Year Started	Fall Semester FTES			Spring Semester FTES		
		Pre	Post	Diff.	Pre	Post	Diff.
Bakersfield	02-03	5,682	6,850	1,168	5,930	6,609	679
Citrus	07-08	5,013	4,550	-463	4,613	4,787	174
Cypress	12-13	5,762	5,451	-311	5,893	6,164	271
El Camino	02-03	8,792	9,310	518	9,078	8,599	-479
Fullerton	12-13	7,230	7,576	346	7,523	8,406	883
LA City	01-02	6,962	7,597	635	7,608	6,877	-731
LA Pierce	00-01	4,736	5,618	882	5,300	6,158	858
LA Trade Tech	01-02	4,848	4,901	53	5,372	4,952	-420
LA Valley	00-01	6,040	5,417	-623	5,641	6,045	404
Moreno Valley	10-11	n/a	2,952	n/a	n/a	2,838	n/a
Mt. San Antonio	06-07	11,770	11,512	-258	11,380	10,929	-451
Norco	10-11	n/a	3,037	n/a	n/a	2,859	n/a
Orange Coast	01-02	7,650	7,890	240	8,024	7,657	-367
Palomar	16-17	8,493	8,721	228	8,434	8,943	509
Pasadena City	03-04	9,867	10,194	327	10,481	9,884	-597
Riverside	99-00	8,040	7,348	-692	7,797	5,659	-2,138
San Diego Mesa	02-03	6,689	6,142	-547	6,595	6,596	1
Victor Valley	04-05	8,694	4,212	-4,482	9,147	4,878	-4,269
TOTAL		7,267	7,081	-186	7,426	7,071	-355

Table 4: Annual FTES Change, Pre/Post Calendar Conversion

College	Year Started	Annual Period		
		Pre-Conversion	Post-Conversion	Difference
Bakersfield	02-03	12,520	14,359	1,839
Citrus	07-08	10,997	11,906	909
Cypress	12-13	12,160	12,008	-152
El Camino	02-03	20,211	20,671	460
Fullerton	12-13	15,676	16,882	1,206
LA City	01-02	15,500	16,780	1,280
LA Pierce	00-01	10,880	11,570	690
LA Trade Tech	01-02	13,562	12,050	-1,512
LA Valley	00-01	13,923	13,596	-327
Moreno Valley	10-11	n/a	7,175	n/a
Mt. San Antonio	06-07	27,468	30,083	2,615
Norco	10-11	n/a	6,825	n/a
Orange Coast	01-02	16,128	17,308	1,180
Palomar	16-17	18,947	19,649	702
Pasadena City	03-04	23,199	23,457	258
Riverside	99-00	17,929	15,684	-2,245
San Diego Mesa	02-03	15,074	14,667	-407
Victor Valley	04-05	19,051	10,042	-9,009
TOTAL		16,452	16,295	-140

As tables 3 and 4 suggest, districts/colleges that converted to an alternative calendar exhibited a wide range of experiences in post-conversion FTES generation. Excluding two colleges that were newly approved and initially started on a 16-week calendar (Moreno Valley and Norco), nine of the sixteen colleges examined experienced increases in fall semester FTES generation while eight of the sixteen colleges experienced increases in spring FTES generation. Furthermore, it should be noted that the economic climate associated with the varied conversion periods and each district/colleges internal enrollment management practices also likely had an impact on pre/post FTES generation. Finally, one district/college - Victor Valley - was an extreme anomaly. The extremely high pre-FTES generation for a district/college this size suggests some possible errors or anomalies in 2003-04 MIS reporting. Excluding Victor Valley, the aggregate post-conversion FTES generated in the Fall semester (7,272) was higher than pre-conversion Fall semester FTES (7,172), an average difference of 100 FTES (1.39%). Applying similar filters to Spring semester data, post-conversion Spring FTES (7,218) was slightly lower than pre-conversion Spring FTES (7,311), on average 93 FTES lower (-1.27%).

Examining data by pre/post conversion academic year and excluding Moreno Valley, Norco, and Victor Valley, larger differences in FTES generation were identified. Excluding these three colleges, on average the remaining fifteen colleges generated an average of 16,711 FTES in their first year on an alternative calendar. In comparison, these fifteen colleges generated an average of 16,278 FTES in the academic year preceding calendar conversion, a difference of 433 FTES (2.66%).

Research Question #2: What was the primary term success/retention rate difference pre/post 16-week conversion?

Employing the aforementioned operational definitions to examine student performance outcomes, table 5 examines fall and spring semester success rates prior to/after conversion to an alternative calendar while table 6 examines pre/post conversion retention rates.

Table 5: Fall & Spring Semester Success Rates, Pre/Post Calendar Conversion

College	Year Started	Fall Semester			Spring Semester		
		Pre	Post	Diff.	Pre	Post	Diff.
Bakersfield	02-03	62.75	62.71	-0.04	63.03	63.31	0.28
Citrus	07-08	66.07	65.42	-0.65	64.08	66.09	2.01
Cypress	12-13	73.61	73.42	-0.19	73.32	71.79	-1.53
El Camino	02-03	63.99	64.21	0.22	64.23	64.07	-0.16
Fullerton	12-13	71.29	69.28	-2.01	69.35	67.78	-1.57
LA City	01-02	64.36	67.49	3.13	71.04	67.25	-3.79
LA Pierce	00-01	61.76	60.85	-0.91	63.56	62.61	-0.95
LA Trade Tech	01-02	71.21	62.83	-8.38	69.46	64.64	-4.82
LA Valley	00-01	63.13	62.19	-0.94	63.67	62.10	-1.57
Moreno Valley	10-11	n/a	71.51	n/a	n/a	69.91	n/a
Mt. San Antonio	06-07	63.92	64.28	0.36	64.80	63.39	-1.41
Norco	10-11	n/a	66.83	n/a	n/a	70.64	n/a
Orange Coast	01-02	67.44	66.33	-1.11	66.50	66.25	-0.25
Palomar	16-17	70.28	70.64	0.36	70.71	71.25	0.54
Pasadena City	03-04	68.39	68.22	-0.17	68.13	68.04	-0.09
Riverside	99-00	61.15	59.98	-1.17	60.38	59.34	-1.04
San Diego Mesa	02-03	64.96	64.46	-0.50	66.66	65.72	-0.94
Victor Valley	04-05	60.69	61.85	1.16	58.99	61.57	2.58
TOTAL		65.94	65.26	-0.68	66.12	65.33	-0.79

Table 6: Fall & Spring Semester Retention Rates, Pre/Post Calendar Conversion

College	Year Started	Fall Semester			Spring Semester		
		Pre	Post	Diff.	Pre	Post	Diff.
Bakersfield	02-03	80.21	80.30	0.09	78.78	80.95	2.17
Citrus	07-08	90.55	93.72	3.17	90.16	93.28	3.12
Cypress	12-13	85.98	86.13	0.15	84.49	84.31	-0.18
El Camino	02-03	78.47	79.19	0.72	78.72	77.93	-0.79
Fullerton	12-13	84.71	84.54	-0.17	82.83	83.20	0.37
LA City	01-02	81.51	83.23	1.72	86.53	81.64	-4.89
LA Pierce	00-01	75.09	78.10	3.01	76.39	78.72	2.33
LA Trade Tech	01-02	83.25	82.61	-0.64	83.07	81.85	-1.22
LA Valley	00-01	77.18	81.09	3.91	77.45	78.86	1.41
Moreno Valley	10-11	n/a	86.95	n/a	n/a	83.62	n/a
Mt. San Antonio	06-07	81.42	82.11	0.69	81.87	80.64	-1.23
Norco	10-11	n/a	84.96	n/a	n/a	84.23	n/a
Orange Coast	01-02	81.52	79.83	-1.69	80.09	79.21	-0.88
Palomar	16-17	91.58	91.50	-0.08	91.42	90.87	-0.55
Pasadena City	03-04	84.22	83.87	-0.35	84.34	83.71	-0.63
Riverside	99-00	83.26	81.03	-2.23	82.15	81.03	-1.12
San Diego Mesa	02-03	79.72	79.32	-0.40	80.24	80.10	-0.14
Victor Valley	04-05	83.10	85.17	2.07	80.59	84.72	4.13
TOTAL		82.61	83.23	0.62	82.45	82.56	0.12

As table 5 indicates, slightly lower success rates were observed in both the Fall and Spring semesters following alternative calendar conversion. In the fall semester, eleven of the sixteen colleges for which valid data existed (68.8%) experienced a decline in success rates, ranging from negligible (-0.04%) to much larger (-8.38%) differences. Similarly, thirteen of the sixteen colleges examined (81.3%) experienced pre/post conversion declines in spring semester success rates, ranging from -0.16% to -4.82%. Overall, fall semester success rates declined from 65.94% to 65.26% (-0.68%) while spring semester success rates declined from 66.12% to 65.33% (-0.79%).

While slight college-specific and overall success rate declines were observed in both the fall and spring semester, slight improvements were observed in retention rates. Nine of the sixteen colleges examined experienced increases in fall semester retention rates with gains in retention ranging from +0.09% to +3.91%. Examining the spring semester, six of the sixteen colleges experienced increases in retention rates, ranging from +0.37% to +4.13%. Overall, fall semester retention rates rose from 82.61% to 83.23% (+0.62%) while spring semester retention rates rose from 82.45% to 82.56% (+0.12%).

Research Question #3: Do FTES differences exist between the fall and spring semesters? If so, how pronounced are these differences?

Table 7: Fall/Spring FTES Differences - 2014-15, 2015-16, and 2016-17

College	Fall/Spring Semester FTES Differences											
	FA14	SP15	Diff	FA15	SP16	Diff	FA16	SP17	Diff	3-Yr FA Avg	3-Yr SP Avg	3-Yr Diff
Bakersfield	6,075.7	6,277.0	201.30	6,540.9	6,706.0	165.1	7,037.5	6,939.2	-98.3	6,551.4	6,640.7	89.3
Citrus	5,150.6	4,888.7	-261.90	5,243.4	5,033.1	-210.3	5,107.8	5,145.4	37.6	5,167.3	5,022.4	-144.9
Cypress	5,956.6	5,966.8	10.20	6,216.2	5,962.3	-253.9	6,075.6	5,817.0	-258.6	6,082.8	5,915.4	-167.4
El Camino	8,775.6	7,992.9	-782.70	8,616.0	7,771.0	-845.0	8,655.2	7,577.4	-1,077.8	8,682.3	7,780.5	-901.8
Fullerton	10,700.5	10,341.7	-358.80	10,654.1	10,293.2	-360.9	10,686.0	10,244.4	-441.6	10,680.2	10,293.1	-387.1
LA City	5,525.1	5,349.1	-176.00	5,375.2	5,126.5	-248.7	5,164.9	4,915.2	-249.7	5,355.1	5,130.3	-224.8
LA Pierce	6,372.9	6,200.1	-172.80	6,301.3	5,955.3	-346.0	6,049.1	5,863.4	-185.7	6,241.1	6,006.3	-234.8
LA Trade Tech	5,110.3	5,085.1	-25.20	5,325.9	5,058.4	-267.5	4,987.6	4,892.5	-95.1	5,141.2	5,012.0	-129.2
LA Valley	5,417.3	5,278.2	-139.10	5,394.7	5,069.9	-324.8	5,253.8	4,954.8	-299.0	5,355.3	5,100.9	-254.4
Moreno Valley	2,910.3	2,616.4	-293.90	2,868.5	2,625.6	-242.9	2,837.4	2,585.5	-251.9	2,872.0	2,609.2	-262.8
Mt. San Antonio	12,669.7	12,158.8	-510.90	12,707.6	12,025.8	-681.8	12,813.2	12,045.5	-767.7	12,730.1	12,076.7	-653.4
Norco	2,852.9	2,691.7	-161.20	2,984.0	2,768.5	-215.5	3,091.1	2,858.1	-233.0	2,976.0	2,772.8	-203.2
Orange Coast	9,027.6	8,590.1	-437.50	9,336.7	9,140.4	-196.3	9,335.7	8,440.8	-894.9	9,233.4	8,723.8	-509.6
Palomar	9,042.6	8,849.1	-193.50	8,492.8	8,434.4	-58.4	8,721.3	8,943.5	222.2	8,752.2	8,742.3	-9.9
Pasadena City	11,372.1	10,777.8	-594.30	11,449.2	10,637.5	-811.7	11,307.5	10,671.1	-636.4	11,376.3	10,695.5	-680.8
Riverside	6,660.6	6,222.8	-437.80	6,782.8	6,313.9	-468.9	6,972.1	6,732.8	-239.3	6,805.1	6,423.2	-381.9
San Diego Mesa	7,209.3	7,223.0	13.70	7,043.3	7,013.5	-29.8	7,119.6	7,151.7	32.1	7,124.1	7,129.4	5.3
Victor Valley	4,126.1	3,930.8	-195.30	4,174.8	3,933.8	-241.0	4,197.3	3,799.9	-397.4	4,166.1	3,888.1	-278.0
TOTAL	6,942.0	6,691.1	-250.9	6,972.6	6,659.4	-313.2	6,967.4	6,643.2	-324.1	6,960.7	6,664.6	-296.1

Examining data for the past three academic years, the eighteen comparison colleges that employ 16-week primary terms experienced slightly lower FTES generation in the spring semester than in the fall semester. On average, over the past three fall semesters examined the comparison colleges generated an average of 6,960.7 FTES in the fall semester. In the spring semester, colleges generated a three-year average of 6,664.6 FTES, approximately 296.1 less FTES (-4.25% in the spring semester). Only two colleges (Bakersfield and San Diego Mesa) generated more FTES on average in the spring semesters than in the fall semesters.

Comparing Chaffey College's current fall/spring FTES generation patterns, the past three fall semesters have generated an average of 6,986.52 resident FTES, while the past three spring semesters have generated an average of 6,550.91 FTES, a three-year average difference of 435.61 FTES (-6.24% in the spring semester). Only four of the eighteen alternative calendar colleges examined in the current study exhibited a higher fall/spring semester FTES difference: Cypress (10.39% difference), Los Angeles Valley (9.15% difference), Mt. San Antonio (6.83% difference), and Victor Valley (6.67% difference).

Research Question #4: Do success rate differences exist between the fall and spring semesters? If so, how pronounced are these differences?

Table 8: Fall/Spring Success Rate Differences - 2014-15, 2015-16, and 2016-17

College	Fall/Spring Semester Success Rate Differences									3-Yr FA Avg	3-Yr SP Avg	3-Yr Diff
	FA14	SP15	Diff	FA15	SP16	Diff	FA16	SP17	Diff			
Bakersfield	67.29	69.46	2.17	67.09	69.42	2.33	68.33	70.66	2.33	67.57	69.85	2.28
Citrus	69.63	70.03	0.40	69.31	69.36	0.05	70.26	69.46	-0.80	69.73	69.62	-0.12
Cypress	71.14	70.10	-1.04	71.25	70.63	-0.62	70.91	71.78	0.87	71.10	70.84	-0.26
El Camino	67.37	67.68	0.31	67.77	69.20	1.43	68.71	68.71	0.00	67.95	68.53	0.58
Fullerton	65.41	65.94	0.53	66.49	66.86	0.37	66.82	68.12	1.30	66.24	66.97	0.73
LA City	64.79	65.06	0.27	65.97	67.87	1.90	66.53	68.81	2.28	65.76	67.25	1.48
LA Pierce	68.06	67.77	-0.29	68.56	68.81	0.25	68.28	70.05	1.77	68.30	68.88	0.58
LA Trade Tech	67.62	67.02	-0.60	68.29	69.55	1.26	69.31	69.56	0.25	68.41	68.71	0.30
LA Valley	67.62	67.86	0.24	66.80	68.30	1.50	67.81	70.45	2.64	67.41	68.87	1.46
Moreno Valley	68.43	69.05	0.62	67.82	70.66	2.84	67.55	68.10	0.55	67.93	69.27	1.34
Mt. San Antonio	67.43	68.01	0.58	67.52	69.08	1.56	68.25	70.06	1.81	67.73	69.05	1.32
Norco	67.59	68.43	0.84	69.86	70.00	0.14	67.68	69.05	1.37	68.38	69.16	0.78
Orange Coast	71.44	72.32	0.88	71.28	73.16	1.88	72.75	73.30	0.55	71.82	72.93	1.10
Palomar	70.00	70.34	0.34	70.28	70.71	0.43	70.64	71.25	0.61	70.31	70.77	0.46
Pasadena City	69.33	69.32	-0.01	69.76	70.68	0.92	71.72	70.73	-0.99	70.27	70.24	-0.03
Riverside	64.31	66.03	1.72	65.62	66.62	1.00	65.77	65.32	-0.45	65.23	65.99	0.76
San Diego Mesa	69.91	70.67	0.76	70.89	71.00	0.11	70.63	72.07	1.44	70.48	71.25	0.77
Victor Valley	63.38	61.80	-1.58	64.39	64.73	0.34	64.90	63.98	-0.92	64.22	63.50	-0.72
TOTAL	67.82	68.16	0.34	68.28	69.26	0.98	68.71	69.53	0.81	68.27	68.98	0.71

Examining success rates over the past three full academic years, fourteen of the eighteen comparison colleges examined (77.8%) exhibited higher spring than fall semester success rates. Among the eighteen comparison colleges, the largest fall/spring success rate difference was 2.28% (Bakersfield) while the lowest fall/spring semester success rate differences was -0.72% (Victor Valley). Overall, the average three-year spring semester success rate (68.98%) was 0.71% higher than the average three-year fall semester success rate (68.27%). Over the past three full academic years, the average fall semester success rate at Chaffey College was 69.65% while the average spring semester success rate was 71.10%, a 1.45% difference in fall/spring semester success rate.

Research Question #4: Do retention rate differences exist between the fall and spring semesters? If so, how pronounced are these differences?

Table 9: Fall/Spring Retention Rate Differences - 2014-15, 2015-16, and 2016-17

College	Fall/Spring Semester Retention Rate Differences									3-Yr FA Avg	3-Yr SP Avg	3-Yr Diff
	FA14	SP15	Diff	FA15	SP16	Diff	FA16	SP17	Diff			
Bakersfield	85.44	87.30	1.86	86.76	87.09	0.33	88.77	88.43	-0.34	86.99	87.61	0.62
Citrus	90.19	89.03	-1.16	90.33	88.94	-1.39	90.82	88.91	-1.91	90.45	88.96	-1.49
Cypress	85.24	83.91	-1.33	85.28	84.03	-1.25	85.10	84.84	-0.26	85.21	84.26	-0.95
El Camino	82.13	81.08	-1.05	82.69	82.37	-0.32	83.12	82.20	-0.92	82.65	81.88	-0.76
Fullerton	82.37	81.75	-0.62	82.89	82.03	-0.86	83.06	82.78	-0.28	82.77	82.19	-0.59
LA City	84.52	83.34	-1.18	83.32	83.17	-0.15	82.82	83.85	1.03	83.55	83.45	-0.10
LA Pierce	86.18	85.60	-0.58	84.76	84.20	-0.56	84.67	85.17	0.50	85.20	84.99	-0.21
LA Trade Tech	85.32	84.75	-0.57	84.09	85.17	1.08	85.39	85.52	0.13	84.93	85.15	0.21
LA Valley	84.96	84.83	-0.13	83.28	83.89	0.61	84.65	86.33	1.68	84.30	85.02	0.72
Moreno Valley	85.31	86.65	1.34	85.41	86.16	0.75	85.25	84.74	-0.51	85.32	85.85	0.53
Mt. San Antonio	86.98	86.10	-0.88	86.79	86.44	-0.35	86.60	86.12	-0.48	86.79	86.22	-0.57
Norco	85.13	85.25	0.12	85.80	86.20	0.40	85.16	85.24	0.08	85.36	85.56	0.20
Orange Coast	86.29	86.55	0.26	86.69	85.78	-0.91	87.32	86.21	-1.11	86.77	86.18	-0.59
Palomar	90.96	90.20	-0.76	91.58	91.42	-0.16	91.50	90.87	-0.63	91.35	90.83	-0.52
Pasadena City	84.77	84.22	-0.55	84.67	84.92	0.25	85.74	84.11	-1.63	85.06	84.42	-0.64
Riverside	84.12	85.45	1.33	84.89	85.43	0.54	84.87	83.64	-1.23	84.63	84.84	0.21
San Diego Mesa	86.11	85.64	-0.47	86.33	86.12	-0.21	86.32	86.50	0.18	86.25	86.09	-0.17
Victor Valley	90.65	90.15	-0.50	91.05	90.42	-0.63	91.27	90.75	-0.52	90.99	90.44	-0.55
TOTAL	85.93	85.66	-0.27	85.92	85.77	-0.16	86.25	85.90	-0.35	86.03	85.77	-0.26

Examining retention rates over the past three full academic years, twelve of the eighteen comparison colleges examined (66.7%) exhibited lower spring than fall semester retention rates. Among the eighteen comparison colleges, the largest fall/spring retention rate difference was 0.72% (Los Angeles valley) while the lowest fall/spring semester retention rate differences was -1.49% (Citrus). Overall, the average three-year fall semester retention rate (86.03%) was 0.26% higher than the average three-year spring semester retention rate (85.77%). Over the past three full academic years, the average fall semester retention rate at Chaffey College was 91.28% while the average spring semester retention rate was 90.65%, a 0.63% difference in fall/spring semester retention rate.

Research Question #5: On average, how much less FTES is generated in the winter intersession than in the fall semester?

Table 10: Fall Semester/Winter Intersession FTES Differences - 2014-15, 2015-16, and 2016-17

College	Fall Semester/Winter Intersession FTES Differences											
	FA14	WI15	Diff	FA15	WI16	Diff	FA16	WI17	Diff	3-Yr FA Avg	3-Yr WI Avg	3-Yr Diff
Citrus	5,150.6	911.1	-4,239.5	5,243.4	1,023.9	-4,219.5	5,107.8	1,044.9	-4,062.9	5,167.3	993.3	-4,174.0
El Camino							8,655.2	1,009.4	-7,645.8			
LA City	5,525.1	809.9	-4,715.2	5,375.2	681.5	-4,693.7	5,164.9	679.1	-4,485.8	5,355.1	723.5	-4,631.6
LA Pierce	6,372.9	482.0	-5,890.9	6,301.3	780.1	-5,521.2	6,049.1	836.3	-5,212.8	6,241.1	699.5	-5,541.6
LA Trade Tech	5,110.3	537.4	-4,572.9	5,325.9	732.6	-4,593.3	4,987.6	637.8	-4,349.8	5,141.3	635.9	-4,505.3
LA Valley	5,417.3	589.9	-4,827.4	5,394.7	720.0	-4,674.7	5,253.8	720.7	-4,533.1	5,355.3	676.9	-4,678.4
Moreno Valley	2,910.3	556.0	-2,354.3	2,868.5	498.7	-2,369.8	2,837.4	553.2	-2,284.2	2,872.1	536.0	-2,336.1
Mt. San Antonio	12,669.7	2,541.6	-10,128.1	12,707.6	2,585.0	-10,122.6	12,813.2	2,636.7	-10,176.5	12,730.2	2,587.8	-10,142.4
Norco	2,852.9	460.0	-2,392.9	2,984.0	486.4	-2,497.6	3,091.1	529.4	-2,561.7	2,976.0	491.9	-2,484.1
Pasadena City							8,721.3	2,124.2	-6,597.1			
Riverside	6,660.6	1,277.2	5,383.4	6,782.8	1,357.3	-5,425.5	6,972.1	1,434.1	-5,538.0	6,805.2	1,356.2	-5,449.0
Victor Valley	4,126.1	528.7	-3,597.4	4,174.8	484.9	-6,558.4	4,197.3	580.9	-3,616.4	4,166.1	531.5	-3,634.6
TOTAL	5,679.6	869.4	-4,810.2	5,715.8	935.0	-4,780.8	6,154.2	1,065.6	-5,088.7	5,680.9	923.2	-4,757.7

Restricting analyses to colleges that offered a winter intersession in the past three academic years, twelve colleges were examined. Additionally, two of these colleges - El Camino and Pasadena City College - only recently (2016-17) submitted MIS data for the winter intersession. As a result, these two colleges were excluded from analyses of three-year patterns reducing the number of comparison colleges for the remaining research questions to ten.

Examining FTES generation for colleges that offered winter intersessions over the past three full academic years, winter intersessions generated significantly less FTES than the fall semester. On average, the ten colleges examined generated 5,680.9 FTES over the past three fall semesters. For the winter intersession, these colleges generated an average of 923.3 FTES, a difference of 4,757.7 FTES (83.75% less FTES). Among the colleges examined, the disparity ranged from -88.79% (Los Angeles Pierce) to -79.67% (Mt. San Antonio College).

Research Question #5: On average, how much less FTES is generated in the winter intersession than in the spring semester?

Table 11: Spring Semester/Winter Intersession FTES Differences - 2014-15, 2015-16, and 2016-17

College	Spring Semester/Winter Intersession FTES Differences											
	SP15	WI15	Diff	SP16	WI16	Diff	SP17	WI17	Diff	3-Yr SP Avg	3-Yr WI Avg	3-Yr Diff
Citrus	4,888.7	911.1	-3,977.6	5,033.1	1,023.9	-4,009.2	5,145.4	1,044.9	-4,100.5	5,022.4	993.3	-4,029.1
El Camino							7,577.4	1,009.4	-6,568.0			
LA City	5,349.1	809.9	-4,539.2	5,126.5	681.5	-4,445.0	4,915.2	679.1	-4,236.1	5,130.3	723.5	-4,406.8
LA Pierce	6,200.1	482.0	-5,718.1	5,955.3	780.1	-5,175.2	5,863.4	836.3	-5,027.1	6,006.3	699.5	-5,306.8
LA Trade Tech	5,085.1	537.4	-4,547.7	5,058.4	732.6	-4,325.8	4,892.5	637.8	-4,254.7	5,012.0	635.9	-4,376.1
LA Valley	5,278.2	589.9	-4,688.3	5,069.9	720.0	-4,349.9	4,954.8	720.7	-4,234.1	5,101.0	676.9	-4,424.1
Moreno Valley	2,616.4	556.0	-2,060.4	2,625.6	498.7	-2,126.9	2,585.5	553.2	-2,032.3	2,609.2	536.0	-2,073.2
Mt. San Antonio	12,158.8	2,541.6	-9,617.2	12,025.8	2,585.0	-9,440.8	12,045.5	2,636.7	-9,408.8	12,076.7	2,587.8	-9,488.9
Norco	2,691.7	460.0	-2,231.7	2,768.5	486.4	-2,282.1	2,858.1	529.4	-2,328.7	2,772.8	491.9	-2,280.8
Pasadena City							10,671.1	2,124.2	-8,546.9			
Riverside	6,222.9	1,277.2	-4,945.7	6,313.9	1,357.3	-4,956.6	6,732.8	1,434.1	-5,298.7	6,423.2	1,356.2	-5,067.0
Victor Valley	3,930.8	528.7	-3,402.1	3,933.8	484.9	-3,448.9	3,800.0	580.9	-3,219.1	3,888.2	531.5	-3,356.7
TOTAL	5,442.2	869.4	-4,572.8	5,391.1	935.0	-4,456.1	6,003.5	1,065.6	-4,937.9	5,404.2	923.2	-4,481.0

Examining FTES generation for colleges that offered winter intersessions over the past three full academic years, winter intersessions generated significantly less FTES than the spring semester. On average, the ten colleges examined generated 5,404.2 FTES over the past three spring semesters. For the winter intersession, these colleges generated an average of 923.3 FTES, a difference of 4,481.0 FTES (82.92% less FTES). Among the colleges examined, the disparity ranged from -88.35% (Los Angeles Pierce) to -78.57% (Mt. San Antonio College).

Research Question #6: *What are the success rate differences between the winter intersession and the fall semester?*

Table 12: Fall Semester/Winter Intersession Success Rate Differences - 2014-15, 2015-16, and 2016-17

College	Fall Semester/Winter Intersession Success Rate Differences									3-Yr FA Avg	3-Yr WI Avg	3-Yr Diff
	FA14	WI15	Diff	FA15	WI16	Diff	FA16	WI17	Diff			
Citrus	69.63	79.87	10.24	69.31	79.23	9.92	70.26	79.71	9.45	69.73	79.60	9.87
El Camino							68.71	82.91	14.20			
LA City	64.79	75.10	10.31	65.97	76.36	10.39	66.53	73.94	7.41	65.76	75.13	9.37
LA Pierce	68.06	81.16	13.10	68.56	81.09	12.53	68.28	80.58	12.30	68.30	80.94	12.64
LA Trade Tech	67.62	77.29	9.67	68.29	79.23	10.94	69.31	79.33	10.02	68.41	78.62	10.21
LA Valley	67.62	79.38	11.76	66.80	77.68	10.88	67.81	80.13	12.32	67.41	79.06	11.65
Moreno Valley	68.43	79.78	11.35	67.82	80.59	12.77	67.55	80.56	13.01	67.93	80.31	12.38
Mt. San Antonio	67.43	79.39	11.96	67.52	79.46	11.94	68.25	80.27	12.02	67.73	79.71	11.97
Norco	67.59	80.87	13.28	69.86	79.92	10.06	67.68	81.84	14.16	68.38	80.88	12.50
Pasadena City							71.72	81.13	9.41			
Riverside	64.31	76.27	11.96	65.62	76.51	10.89	65.77	76.42	10.65	65.23	76.40	11.17
Victor Valley	63.38	73.17	9.79	64.39	76.23	11.84	64.90	75.16	10.26	64.22	74.85	10.63
TOTAL	66.89	78.23	11.34	67.41	78.63	11.22	68.06	79.33	11.27	67.31	78.55	11.24

Among comparison colleges that offered a winter intersession, success rates in the winter intersession were significantly higher than success rates generated in the fall semester. Annual success rate differences between the fall semester and winter intersession were very consistent, ranging from 11.22% to 11.34%. In total, the three-year average success rate in the winter intersession (78.55%) was 11.24% higher than the three-year average success rate observed in the fall semester (67.31%). Three-year differences by institution were relatively similar, ranging from a high difference of 12.64% (Los Angeles Pierce) to a low of 9.37% (Los Angeles City).

Research Question #6: What are the success rate differences between the winter intersession and the spring semester?

Table 13: Spring Semester/Winter Intersession Success Rate Differences - 2014-15, 2015-16, and 2016-17

College	Spring Semester/Winter Intersession Success Rate Differences									3-Yr SP Avg	3-Yr WI Avg	3-Yr Diff
	SP15	WI15	Diff	SP16	WI16	Diff	SP17	WI17	Diff			
Citrus	70.03	79.87	9.84	69.36	79.23	9.87	69.46	79.71	10.25	69.62	79.60	9.99
El Camino							68.71	82.91	14.20			
LA City	65.06	75.10	10.04	67.87	76.36	8.49	68.81	73.94	5.13	67.25	75.13	7.89
LA Pierce	67.77	81.16	13.39	68.81	81.09	12.28	70.05	80.58	10.53	68.88	80.94	12.07
LA Trade Tech	67.02	77.29	10.27	69.55	79.23	9.68	69.56	79.33	9.77	68.71	78.62	9.91
LA Valley	67.86	79.38	11.52	68.30	77.68	9.38	70.45	80.13	9.68	68.87	79.06	10.19
Moreno Valley	69.05	79.78	10.73	70.66	80.59	9.93	68.10	80.56	12.46	69.27	80.31	11.04
Mt. San Antonio	68.01	79.39	11.38	69.08	79.46	10.38	70.06	80.27	10.21	69.05	79.71	10.66
Norco	68.43	80.87	12.44	70.00	79.92	9.92	69.05	81.84	12.79	69.16	80.88	11.72
Pasadena City							70.73	81.13	10.40			
Riverside	66.03	76.27	10.24	66.62	76.51	9.89	65.32	76.42	11.10	65.99	76.40	10.41
Victor Valley	61.80	73.17	11.37	64.73	76.23	11.50	63.98	75.16	11.18	63.50	74.85	11.35
TOTAL	67.11	78.23	11.12	68.50	78.63	10.13	68.69	79.33	10.64	68.03	78.55	10.52

Among comparison colleges that offered a winter intersession, success rates in the winter intersession were significantly higher than success rates generated in the spring semester. Although not quite as pronounced as observed fall semester/winter intersession differences, annual success rate differences between the spring semester and winter intersession were similarly consistent, ranging from 10.13% to 11.12%. In total, the three-year average success rate in the winter intersession (78.55%) was 10.52% higher than the three-year average success rate observed in the spring semester (68.03%). Three-year differences by institution were relatively similar, ranging from a high difference of 12.07% (Los Angeles Pierce) to a low of 7.89% (Los Angeles City).

Research Question #6: What are the retention rate differences between the winter intersession and the fall semester?

Table 14: Fall Semester/Winter Intersession Retention Rate Differences - 2014-15, 2015-16, and 2016-17

College	Fall Semester/Winter Intersession Retention Rate Differences									3-Yr FA Avg	3-Yr WI Avg	3-Yr Diff
	FA14	WI15	Diff	FA15	WI16	Diff	FA16	WI17	Diff			
Citrus	90.19	92.53	2.34	90.33	91.45	1.12	90.82	92.11	1.29	90.45	92.03	1.58
El Camino							83.12	90.76	7.64			
LA City	84.52	87.26	2.74	83.32	88.47	5.15	82.82	87.33	4.51	83.55	87.69	4.13
LA Pierce	86.18	91.76	5.58	84.76	90.69	5.93	84.67	91.29	6.62	85.20	91.25	6.04
LA Trade Tech	85.32	88.55	3.23	84.09	89.72	5.63	85.39	90.82	5.43	84.93	89.70	4.76
LA Valley	84.96	90.18	5.22	83.28	88.52	5.24	84.65	89.62	4.97	84.30	89.44	5.14
Moreno Valley	85.31	90.83	5.52	85.41	91.47	6.06	85.25	90.83	5.58	85.32	91.04	5.72
Mt. San Antonio	86.98	91.07	4.09	86.79	90.47	3.68	86.60	91.23	4.63	86.79	90.92	4.13
Norco	85.13	91.62	6.49	85.80	89.42	3.62	85.16	91.61	6.45	85.36	90.88	5.52
Pasadena City							85.74	90.18	4.44			
Riverside	84.12	89.24	5.12	84.89	88.98	4.09	84.87	89.82	4.95	84.63	89.35	4.72
Victor Valley	90.65	91.99	1.34	91.05	93.26	2.21	91.27	91.49	0.22	90.99	92.25	1.26
TOTAL	86.34	90.50	4.17	85.97	90.25	4.27	85.86	90.59	4.73	86.15	90.45	4.30

Among comparison colleges that offered a winter intersession, retention rates in the winter intersession were higher than retention rates generated in the fall semester. Annual retention rate differences between the fall semester and winter intersession were very consistent, ranging from 4.17% to 4.73%. In total, the three-year average retention rate in the winter intersession (90.45%) was 4.30% higher than the three-year average retention rate observed in the fall semester (86.15%). Three-year differences by institution were relatively similar, ranging from a high difference of 6.04% (Los Angeles Pierce) to a low of 1.26% (Victor Valley).

Research Question #6: What are the retention rate differences between the winter intersession and the spring semester?

Table 14: Spring Semester/Winter Intersession Retention Rate Differences - 2014-15, 2015-16, and 2016-17

College	Spring Semester/Winter Intersession Retention Rate Differences											
	SP15	WI15	Diff	SP16	WI16	Diff	SP17	WI17	Diff	3-Yr SP Avg	3-Yr WI Avg	3-Yr Diff
Citrus	89.03	92.53	3.50	88.94	91.45	2.51	88.91	92.11	3.20	88.96	92.03	3.07
El Camino							82.20	90.76	8.56			
LA City	83.34	87.26	3.92	83.17	88.47	5.30	83.85	87.33	3.48	83.45	87.69	4.23
LA Pierce	85.60	91.76	6.16	84.20	90.69	6.49	85.17	91.29	6.12	84.99	91.25	6.26
LA Trade Tech	84.75	88.55	3.80	85.17	89.72	4.55	85.52	90.82	5.30	85.15	89.70	4.55
LA Valley	84.83	90.18	5.35	83.89	88.52	4.63	86.33	89.62	3.29	85.02	89.44	4.42
Moreno Valley	86.65	90.83	4.18	86.16	91.47	5.31	84.74	90.83	6.09	85.85	91.04	5.19
Mt. San Antonio	86.10	91.07	4.97	86.44	90.47	4.03	86.12	91.23	5.11	86.22	90.92	4.70
Norco	85.25	91.62	6.37	86.20	89.42	3.22	85.24	91.61	6.37	85.56	90.88	5.32
Pasadena City							84.11	90.18	6.07			
Riverside	85.45	89.24	3.79	85.43	88.98	3.55	83.64	89.82	6.18	84.84	89.35	4.51
Victor Valley	90.15	91.99	1.84	90.42	93.26	2.84	90.75	91.49	0.74	90.44	92.25	1.81
TOTAL	86.12	90.50	4.39	86.00	90.25	4.24	85.55	90.59	5.04	86.05	90.45	4.41

Among comparison colleges that offered a winter intersession, retention rates in the winter intersession were significantly higher than retention rates generated in the spring semester. Annual retention rate differences between the spring semester and winter intersession were consistent, ranging from 4.24% to 5.04%. In total, the three-year average retention rate in the winter intersession (90.45%) was 4.41% higher than the three-year average retention rate observed in the spring semester (86.05%). Three-year differences by institution were relatively similar, ranging from a high difference of 6.26% (Los Angeles Pierce) to a low of 1.81% (Victor Valley).

Research Question #7: For colleges/districts that offer a winter intersession, do FTES generation differences exist between the winter intersession and the summer semester?

Table 15: Summer Semester/Winter Intersession FTES Differences - 2014-15, 2015-16, and 2016-17

College	Summer Semester/Winter Intersession FTES Differences											
	SU15	WI15	Diff	SU16	WI16	Diff	SU17	WI17	Diff	3-Yr SU Avg	3-Yr WI Avg	3-Yr Diff
Citrus	1,333.4	911.1	-422.3	1,345.3	1,023.9	-321.4	1,396.8	1,044.9	-351.9	1,358.5	993.3	-365.2
El Camino							1,450.9	1,009.4	-441.5			
LA City	1,300.3	809.9	-490.4	1,234.2	681.5	-552.7	1,133.0	679.1	-453.9	1,222.5	723.5	-499.0
LA Pierce	1,456.3	482.0	-974.3	1,428.4	780.1	-648.3	1,367.4	836.3	-531.1	1,417.4	699.5	-717.9
LA Trade Tech	1,046.1	537.4	-508.7	1,091.4	732.6	-358.8	1,093.0	637.8	-455.2	1,076.9	635.9	-440.9
LA Valley	833.8	589.9	-243.9	856.5	720.0	-136.5	1,074.0	720.7	-353.3	921.4	676.9	-244.6
Moreno Valley	588.6	556.0	-32.6	578.8	498.7	-80.1	604.7	553.2	-51.5	590.7	536.0	-54.7
Mt. San Antonio	4,835.8	2,541.6	-2,294.2	5,172.6	2,585.0	-2,587.6	5,717.0	2,636.7	-3,080.3	5,241.8	2,587.8	-2,654.0
Norco	414.1	460.0	45.9	489.1	486.4	-2.7	519.8	529.4	9.6	474.3	491.9	17.6
Pasadena City							2,343.7	2,124.2	-219.5			
Riverside	1,278.7	1,277.2	-1.5	1,320.3	1,357.3	37.0	1,412.9	1,434.1	21.2	1,337.3	1,356.2	18.9
Victor Valley	862.4	528.7	-333.7	839.4	484.9	-354.5	816.7	580.9	-235.8	839.5	531.5	-308.0
TOTAL	1,394.9	869.4	-526.5	1,435.6	935.0	-500.6	1,577.5	1,065.6	-511.9	1,448.03	923.2	-524.8

In examining differences in Summer Semester/Winter Intersession FTES generation, greater variance was observed by college. Overall, comparison colleges that offered both a summer semester and a winter intersession generated more FTES in the summer semester. Examining three-year averages, comparison colleges generated an average of 1,448.03 FTES in the summer semester and 923.3 FTES in the winter intersession, an average difference of 524.8 FTES (-36.24%) during the winter intersession. By college, differences in summer semester/winter intersession FTES generation ranged from a high of -50.65% (Los Angeles Pierce, which generated a three-year average of 1,417.4 FTES in the summer semester and 699.5 FTES during the winter intersession) to a low of +3.71% (Norco, which generated a three-year average of 474.3 FTES in the summer semester and 491.9 FTES during the winter intersession). Norco and Riverside Colleges were the only institutions that over the three-year examination period generated more FTES in the winter intersession than in the summer semester (+3.71% and +1.41%, respectively).

Research Question #7: For colleges/districts that offer a winter intersession, do success rate differences exist between the winter intersession and the summer semester?

Table 16: Summer Semester/Winter Intersession Success Rate Differences - 2014-15, 2015-16, and 2016-17

College	Summer Semester/Winter Intersession Success Rate Differences											
	SU15	WI15	Diff	SU16	WI16	Diff	SU17	WI17	Diff	3-Yr SU Avg	3-Yr WI Avg	3-Yr Diff
Citrus	77.79	79.87	2.08	77.76	79.23	1.47	75.72	79.71	3.99	77.09	79.60	2.51
El Camino						0.00	78.41	82.91	4.50			
LA City	74.56	75.10	0.54	76.07	76.36	0.29	77.64	73.94	-3.70	76.09	75.13	-0.96
LA Pierce	80.20	81.16	0.96	79.95	81.09	1.14	80.29	80.58	0.29	80.15	80.94	0.80
LA Trade Tech	79.10	77.29	-1.81	77.89	79.23	1.34	78.89	79.33	0.44	78.63	78.62	-0.01
LA Valley	77.72	79.38	1.66	79.20	77.68	-1.52	78.99	80.13	1.14	78.64	79.06	0.43
Moreno Valley	82.32	79.78	-2.54	80.75	80.59	-0.16	79.57	80.56	0.99	80.88	80.31	-0.57
Mt. San Antonio	80.12	79.39	-0.73	80.52	79.46	-1.06	80.31	80.27	-0.04	80.32	79.71	-0.61
Norco	82.95	80.87	-2.08	81.52	79.92	-1.60	80.18	81.84	1.66	81.55	80.88	-0.67
Pasadena City			0.00			0.00	80.88	81.13	0.25			
Riverside	75.97	76.27	0.30	76.35	76.51	0.16	75.51	76.42	0.91	75.94	76.40	0.46
Victor Valley	72.06	73.17	1.11	72.89	76.23	3.34	74.29	75.16	0.87	73.08	74.85	1.77
TOTAL	78.28	78.23	-0.05	78.29	78.63	0.34	78.39	79.33	0.94	78.32	78.73	0.41

Among comparison colleges that offered a winter intersession, success rates in the winter intersession were comparable to success rates generated in the summer semester. Annual success rate differences between the summer semester and winter intersession were consistent, ranging from +0.94% to -0.05%. In total, the three-year average success rate in the winter intersession (78.73%) was 0.41% higher than the three-year average success rate observed in the summer semester (78.32%). Three-year differences by institution were relatively similar, ranging from a high difference of +2.51% (Citrus) to a low of -0.96% (Los Angeles City).

Research Question #7: For colleges/districts that offer a winter intersession, do retention rate differences exist between the winter intersession and the summer semester?

Table 17: Summer Semester/Winter Intersession Retention Rate Differences - 2014-15, 2015-16, and 2016-17

College	Summer Semester/Winter Intersession Retention Rate Differences											
	SU15	WI15	Diff	SU16	WI16	Diff	SU17	WI17	Diff	3-Yr SU Avg	3-Yr WI Avg	3-Yr Diff
Citrus	91.19	92.53	1.34	91.29	91.45	0.16	88.78	92.11	3.33	90.42	92.03	1.61
El Camino						0.00	88.19	90.76	2.57			
LA City	87.50	87.26	-0.24	88.06	88.47	0.41	89.17	87.33	-1.84	88.24	87.69	-0.56
LA Pierce	90.58	91.76	1.18	90.72	90.69	-0.03	90.52	91.29	0.77	90.61	91.25	0.64
LA Trade Tech	89.86	88.55	-1.31	89.80	89.72	-0.08	91.76	90.82	-0.94	90.47	89.70	-0.78
LA Valley	89.64	90.18	0.54	90.29	88.52	-1.77	90.25	89.62	-0.63	90.06	89.44	-0.62
Moreno Valley	91.58	90.83	-0.75	91.50	91.47	-0.03	90.83	90.83	0.00	91.30	91.04	-0.26
Mt. San Antonio	91.55	91.07	-0.48	90.53	90.47	-0.06	89.85	91.23	1.38	90.64	90.92	0.28
Norco	91.44	91.62	0.18	91.32	89.42	-1.90	91.35	91.61	0.26	91.37	90.88	-0.49
Pasadena City						0.00	88.76	90.18	1.42			
Riverside	89.84	89.24	-0.60	89.11	88.98	-0.13	89.44	89.82	0.38	89.46	89.35	-0.12
Victor Valley	91.48	91.99	0.51	90.65	93.26	2.61	91.95	91.49	-0.46	91.36	92.25	0.89
TOTAL	90.47	90.50	0.03	90.33	90.25	-0.08	90.07	90.59	0.52	90.29	90.45	0.16

Among comparison colleges that offered a winter intersession, retention rates in the winter intersession were comparable to retention rates generated in the summer semester. Annual retention rate differences between the summer semester and winter intersession were consistent, ranging from +0.52% to -0.08%. In total, the three-year average retention rate in the winter intersession (90.45%) was 0.16% higher than the three-year average retention rate observed in the summer semester (90.29%). Three-year differences by institution were relatively similar, ranging from a high difference of +1.61% (Citrus) to a low of -0.78% (Los Angeles Trade Tech).