

Research Report

5-Year Study--Patterns in MJC English 49 and English 50 Course Retention, Success, and Within-Course Success Rates Gaps, Fall 2011-Fall 2016; Comparative Data on English 45 Fall 2016

Scott Kerlin, MJC Office of Research and Planning

January 2017

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Introduction

In December 2016 a major study of English 49 and 50 course activity at MJC was conducted with the objective of measuring patterns in student success and student retention at the course level, for the semesters Fall 2011 through Spring 2016. Data for this report was obtained through the Crystal Report in Datatel “Student Success and Retention”, which is the standard MJC internal data report for tracking course success rates and retention rates, along with CCCCCO Datamart Basic Skills Progress Tracker and internal data from the MJC Office of Research and Planning.

The emphasis in this study is on courses **English 49** and **English 50**. These courses do not transfer to 4-year institutions for the purpose of fulfilling college-level mathematics requirements.

During Fall 2016, a new course, **English 45** (Accelerated Reading, Writing & Reasoning) was launched. For Fall 2016, this report includes data on course enrollments, success rates, success rate gaps by ethnicity, success rates by section, and course retention rates for **English 45**, **English 49**, and **English 50**.

I: Trends: English 49 and English 50 Patterns in Enrollment, Course-Level Success Rates and Retention Rates, and Course Success Rate Gaps

(1) Enrollment: Overall average course enrollment during the researched periods was greatest in **English 50** (Basic English Skills), with a 2-year figure of **1007** (Fall 2014-Spring 2016) and a 5-year figure of **870** (Fall 2011 through Spring 2016). **English 49** (Basic Composition & Reading) had a 2-year average of **602** and a 5-year average of **870**. The census enrollment counts (Fall 2011 through Spring 2016) for these courses were the following:

TABLE 1		*****1 st Census Course Enrollment*****					
<u>Course</u>	<u>Title</u>	<u>Fall 2014</u>	<u>Spring 2015</u>	<u>Fall 2015</u>	<u>Spring 2016</u>	<u>2-Yr. Avg</u>	
English 49	Basic English Skills	611	585	586	626	602	
English 50	Basic Comp & Reading	943	985	1069	1029	1007	

		*****1 st Census Course Enrollment*****					
<u>Course</u>	<u>Fall 2011</u>	<u>Spring 2012</u>	<u>Fall 2012</u>	<u>Spring 2013</u>	<u>Fall 2013</u>	<u>Spring 2014</u>	<u>5-Yr. Avg</u>
English 49	609	523	374	352	453	530	525
English 50	829	807	650	773	847	769	870

(2) Course Success Rates: Success rates at the course level are defined as the percentage of students enrolled at first-census who achieve a grade of “A”, “B”, “C”, or “Pass” in the course. Average 5-year success rate for **English 49** was **49.1%** for the period Fall 2011 through Spring 2016, while the rate for **English 50** at **64.0%** during the same period. Rates for all courses were the following:

TABLE 2

*****Course Success Rates*****

Course	Title	Fall 2014	Spring 2015	Fall 2015	Spring 2016	2-Yr. Avg
English 49	Basic English Skills	46.48%	43.08%	52.56%	54.63%	49.19%
English 50	Basic Comp & Reading	61.51%	64.06%	62.39%	62.97%	62.73%

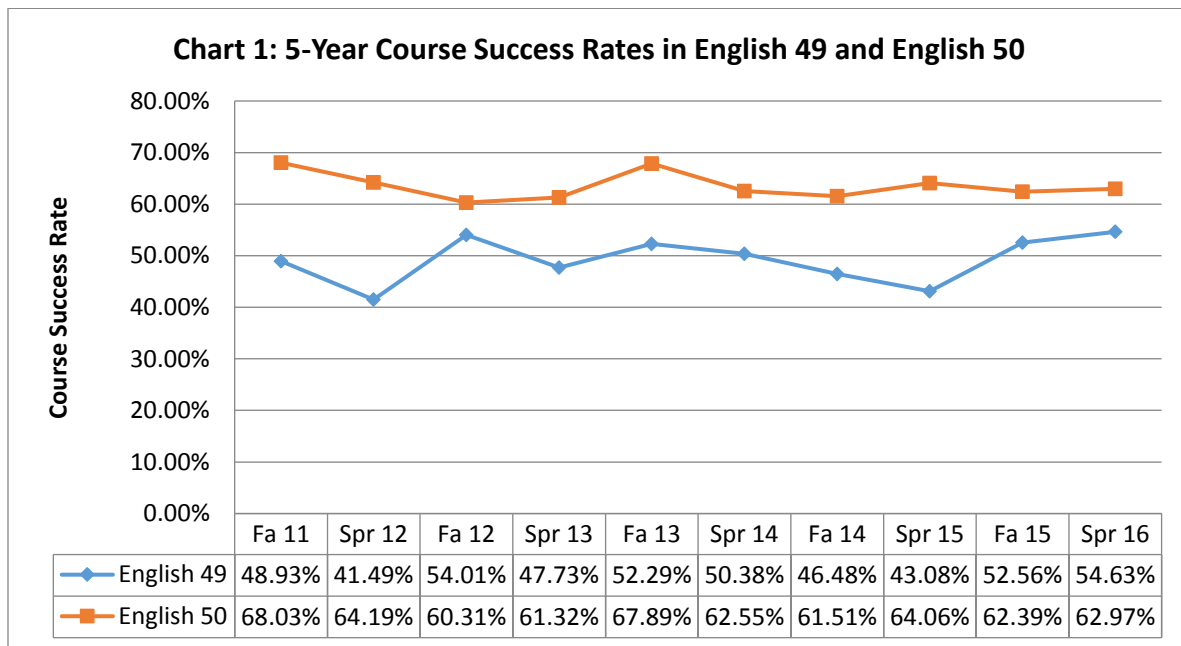
*****Course Success Rates*****

Course	Fall 2011	Spring 2012	Fall 2012	Spring 2013	Fall 2013	Spring 2014	5-Yr. Avg
English 49	48.93%	41.49%	54.01%	47.73%	52.29%	50.38%	49.14%
English 50	68.03%	64.19%	60.31%	61.32%	67.89%	62.55%	64.04%

Comparing the 2-year success rate average (Fall 2014-Spring 2016) for both courses against the 5-year average for Fall 2011-Spring 2016 indicated that **English 49** had a consistent average of just over **49%** success, but the semester-by-semester success rate significantly improved between Spring 2015 (**43.1%**) and Spring 2016 (**54.6%**).

For **English 50**, the 2-year average Fall 2014-Spring 2016 stayed relatively consistent from term to term, peaking at **64.1%** in **Spring 2015** and equaling **63%** in Spring 2016.

Chart 1 below displays the overall patterns in student success rates at the course level for the period Fall 2011 through Spring 2016.



(3) Course Success Rates by Race/Ethnicity: Success rate differences were measured for **African-American, Asian, Hispanic, and White** students across **English 49** and **English 50**. Average 2-year success rate gap (Highest Ethnicity vs. Lowest Ethnicity 2-year average) for **English 49** was **16.8%** for Fall 2014 through Spring 2016, while for **English 50** it was just **8.5%**. Rates for both courses during this 2-year period along with 5-year trend data appear below.

TABLE 3

*****Course Success Rates*****

<u>Course</u>	<u>Title</u>	<u>Fall 2014</u>	<u>Spring 2015</u>	<u>Fall 2015</u>	<u>Spring 2016</u>	<u>2-Yr. Avg</u>
English 49	All Students	46.48%	43.08%	52.56%	54.63%	49.19%
	African-Americans	30.43%	14.29%	45.00%	45.45%	33.79%
	Asians	47.73%	44.44%	51.11%	51.11%	48.60%
	Hispanics	45.86%	44.00%	51.70%	59.23%	50.20%
	Whites	49.12%	47.89%	54.61%	50.76%	50.60%
	GAP (High to Low)					
English 50	All Students	61.51%	64.06%	62.39%	62.97%	62.73%
	African-Americans	60.61%	58.06%	56.67%	71.43%	61.68%
	Asians	65.85%	66.67%	74.00%	74.00%	70.13%
	Hispanics	60.70%	63.24%	62.30%	66.67%	63.23%
	Whites	61.20%	64.98%	61.96%	67.11%	63.81%
	GAP (High to Low)					

*****Course Success Rates*****

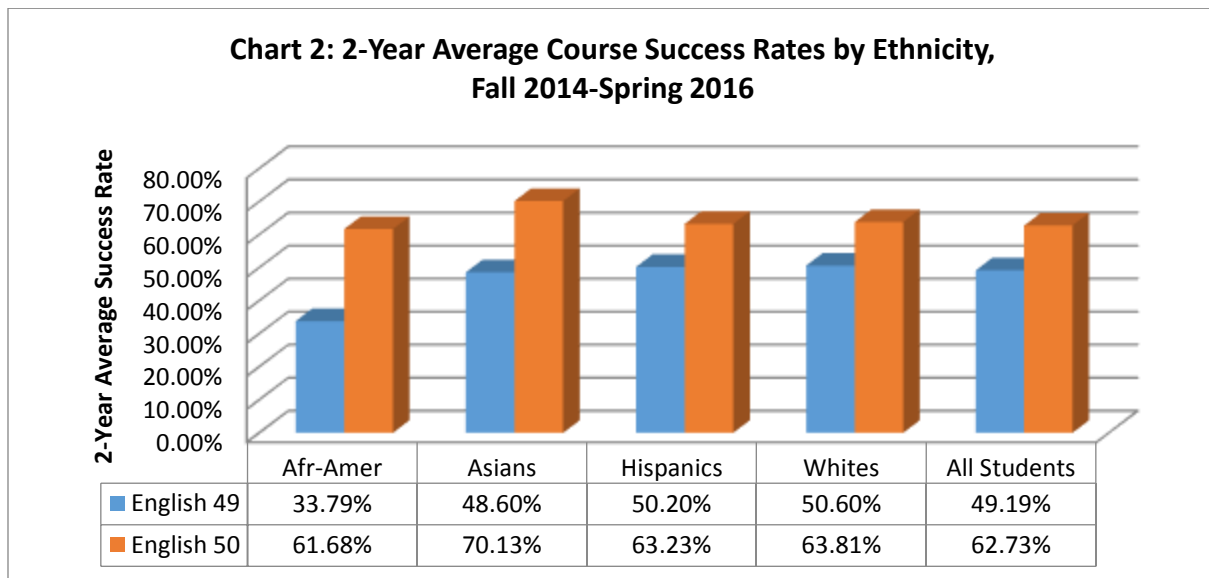
<u>Course</u>	<u>Ethn</u>	<u>Fall 2011</u>	<u>Spring 2012</u>	<u>Fall 2012</u>	<u>Spring 2013</u>	<u>Fall 2013</u>	<u>Spring 2014</u>	<u>5-Yr. Avg</u>
English 49	All	48.93%	41.49%	54.01%	47.73%	52.29%	50.38%	49.14%
	AfAm	18.18%	32.43%	42.86%	34.78%	46.15%	20.59%	33.02%
	Asian	56.52%	47.83%	44.44%	70.83%	59.26%	52.38%	52.57%
	Hispan	48.57%	40.80%	55.21%	47.22%	54.58%	52.65%	49.98%
	White	50.31%	45.58%	54.29%	47.42%	59.09%	49.23%	50.86%
GAP (High-Low)								19.55%
English 50	All	64.10%	65.24%	57.76%	66.21%	58.08%	53.82%	62.53%
	AfAm	46.88%	41.18%	50.00%	37.08%	55.26%	35.90%	46.13%
	Asian	71.43%	66.67%	75.61%	76.32%	81.82%	72.09%	72.45%
	Hispan	67.73%	61.93%	57.31%	59.95%	65.41%	58.03%	62.33%
	White	69.29%	67.65%	63.55%	62.20%	70.00%	72.22%	66.02%
GAP (High-Low)								26.32%

Overall equity gaps among **African-American, Asian, Hispanic, and White** students for the 5-year period Fall 2011 through Spring 2016 were calculated for **English 49** and **English 50**. For each course, the gap between highest 5-year average ethnicity and lowest 5-year average ethnicity was computed.

The average 5-year success rate gap (Highest Ethnicity vs. Lowest Ethnicity) for **English 49** was **19.6%** for Fall 2011 through Spring 2016, with **Asians** having the highest average rate (**52.6%**) and **African-Americans** having the lowest average rate (**33.0%**). For the most recent two years, the success rate gap narrowed to **16.8%**, with **white** students averaging **50.6%** and **African-Americans** averaging **33.8%**.

For **English 50**, there was a significant improvement in average success rate gap for the most recent two years (**8.5%**), compared with the 5-year average gap of **26.3%**. **Asian** students posted the highest success rates in both the 2-year and 5-year data, typically scoring an average above **70%**. **African-Americans**, while scoring lowest during most semesters between Fall 2011 and Spring 2016, showed significant improvements in the most recent two years. In fact, they attained **71.4%** success in Spring 2016, surpassing **Hispanics** and **Whites** and only trailing **Asian** students by **2.6%**.

Chart 2 displays the variations in student success rates by major ethnic group at MJC at the course level, averaged for the 2-year period Fall 2014 through Spring 2016.



(4) Course Retention Rates: Retention rates at the course level are defined as the percentage of students enrolled at first-census who remain enrolled in the course regardless of whether they pass or don't pass. Average 5-year retention rate for **English 49** was **82.0%** for the period Fall 2011 through Spring 2016, and for **English 50** it was **84.4%**. The 2-year average rates for both courses Fall 2014-Spring 2016 remained nearly the same as the 5-year averages for both courses, but measured **2%** improvement for the most recent two years (reaching **84%**).

TABLE 4

*****Course Retention Rates*****

<u>Course</u>	<u>Title</u>	<u>Fall 2014</u>	<u>Spring 2015</u>	<u>Fall 2015</u>	<u>Spring 2016</u>	<u>2-Yr. Avg</u>
English 49	Basic English Skills	83.47%	83.08%	82.76%	87.21%	84.13%
English 50	Basic Comp & Reading	84.20%	81.93%	89.25%	86.90%	85.57%

*****Course Retention Rates*****

<u>Course</u>	<u>Fall 2011</u>	<u>Spring 2012</u>	<u>Fall 2012</u>	<u>Spring 2013</u>	<u>Fall 2013</u>	<u>Spring 2014</u>	<u>5-Yr. Avg</u>
English 49	82.10%	71.89%	85.03%	76.70%	85.87%	82.08%	82.02%
English 50	86.13%	82.53%	82.15%	81.63%	87.25%	82.44%	84.44%

(5) Course Success Rates Gap Analysis: Overall success rates at the course level (reported above) represent the average of success rates for all sections of each course that is offered in the specific semester measured (in this case, Fall 2011 through Spring 2016).

In order to measure the degree of variation in course success rates across the range of sections offered in a given semester, an additional calculation was created for this report: the **Course Success Rates Gap Analysis**.

For example, the course **English 50** (Basic Composition & Reading) had **31 sections** with **948** enrolled students in Fall 2014, **34 sections** with **985** enrolled students in Spring 2015, **35 sections** with **1,069** enrolled students in Fall 2015, and **36 sections** with **1,029** enrolled students in Spring 2016. The **Success Rate Gap Analysis** calculates the difference between the course section with the highest success rate and the section with the lowest success rate.

Overall, **English 49** had a 5-year average Success Rate Gap at **48.3%**, and English 50 had a 5-year rate of **41.9%**. During the most recent 2 years (Fall 2014 through Spring 2016), the Success Rates gaps were **58%** for **English 49** and nearly **60%** for English **50**. Rates for all courses were the following:

TABLE 5

*****Course Success Rates Gaps*****

<u>Course</u>	<u>Title</u>	<u>Fall 2014</u>	<u>Spring 2015</u>	<u>Fall 2015</u>	<u>Spring 2016</u>	<u>2-Yr. Avg</u>
English 49	Basic English Skills	51.62%	60.32%	63.07%	56.78%	57.95%
English 50	Basic Comp & Reading	61.43%	63.91%	60.32%	54.09%	59.94%

*****Course Success Rates Gaps*****

<u>Course</u>	<u>Fall 2011</u>	<u>Spring 2012</u>	<u>Fall 2012</u>	<u>Spring 2013</u>	<u>Fall 2013</u>	<u>Spring 2014</u>	<u>5-Yr. Avg</u>
English 49	38.34%	15.40%	12.35%	23.61%	13.11%	32.06%	48.26%
English 50	24.55%	26.47%	25.61%	39.24%	26.56%	36.32%	41.85%

II. Trends: Fall 2016 Course Success Rates Measures

For Fall 2016, comparative data was gathered for courses **English 49** and **English 50**, as well as the new **English 45** course “Accelerated Reading, Writing, & Reasoning”. The following measures were included:

TABLE 6

Fall 2016 Course	1st Census Enrollment	Course Success %	Course Retention %	Success Gap %	Highest Success Section %	Lowest Success Section %
English 45	360	56.11%	78.33%	22.92%	66.67%	43.75%
English 49	358	70.95%	89.39%	42.59%	83.33%	40.74%
English 50	1,099	67.70%	84.44%	57.30%	90.63%	33.33%

TABLE 7

Fall 2016 Ethnicity by Course Success Rates %	English 45	English 49	English 50
All	56.11%	70.95%	67.70%
African-Americans	33.33%	66.67%	61.76%
Asians	68.75%	76.47%	77.50%
Hispanics	52.61%	71.86%	66.56%
Whites	60.98%	67.02%	68.88%
GAP (High-Low)	35.42%	9.80%	15.74%

For **English 45**, the Fall 2016 success rate was **56.1%**, which exceeded the Fall 2011-Spring 2016 5-year average success rate for **English 49 (49%)** by nearly **7%**. **English 45** students from the Fall 2016 cohort will continue to be tracked during Spring and Summer 2017 to determine subsequent rate of persistence into and completion of college English within the first year.

Success rates for **English 49** and **English 50** during Fall 2016 exceeded the average 5-year and 2-year success rates for each of these courses. **English 49** showed nearly **71%** success rate (compared with the overall averages of **49%** in previous years)--while **English 50** showed nearly a **68%** success rate, which is more than **4%** improvement over the 5-year and 2-year averages from previous years.

For each course in Fall 2016, the success rate gap analysis (similar to **Table 5**) was calculated. Data are reported in **Table 6** above in the column labeled “Success Gap %”. **English 45** had **11 sections** enrolling a total of **360 students** and a success rate gap across sections of **22.9%**. **English 49** had **358 students** enrolled in **13 sections** with a success rate gap of **42.6%**. This is a significant improvement over the 2-year average gap for Fall 2014-Spring 2016 of **58%**. **English 50** had **36 sections** with an overall success rate gap of **57.3%**. This is a 2.5% improvement over the 2-year average gap for **English 50**, which is **60%**.

In all three courses, **Asian** students had the highest success rates in Fall 2016 while **African-American** students had the lowest rates. Ethnicity gap was highest in **English 45 (35.4%)** and lowest in **English 49 (9.8%)**. The **English 49** gap is a significant improvement over the average 5-year and 2-year gaps for the 2011-12 through 2015-16 academic years.

III. Trends: Student Persistence and Progression from English 49 through English 101 (College English)

Using the California Community Colleges Basic Skills progress tracker at http://datamart.cccco.edu/Outcomes/BasicSkills_Cohort_Tracker.aspx the educational progress of several cohorts of English 45 students at MJC was measured. Using a **1 year measure of progress for English 49** students in the cohort tracker, (eg. Fall 2011 through Summer 2012), we find that on average, the following trends appear when averaged over the 5 years (**Fall 11-Summer 12; Fall 12-Summer 13, Fall 13-Summer 14; Fall 14-Summer 15; Fall 15-Summer 16**):

- * Percent of entering **English 49** cohorts who pass **English 49** within the first year (including retakes), averaged over the period Fall 2011 through Fall 2016: (**English 49 Pass Rate**): **58.0%**
- * Percent of entering **English 49** cohorts during the 5 years studied who ultimately attempt **English 50** in the same year: (**Overall Progression Rate, English 49 to English 50**): **37.2%**
- * Of the students who passed **English 49**, the proportion who subsequently enroll in **English 50** within the same year: (**First Year Progression Rate, English 49 Passes to English 50 Enrolls**): **64.1%**
- * Percent of total entering **English 49** cohorts who ultimately pass **English 50** within the first year: (**English 49 Cohort Persistence to Passing English 50 in Year 1**): **26.0%**
- * Percent of **English 50** attempting students who ultimately pass **English 50** within the first year: (**English 50 Pass Rate in Year 1**): **70.0%**
- * Percent of entering **English 49** cohorts over the 5 year study who ultimately progress to **English 101** enrollment within the first year: (**1-year English 49 Cohort Progression to Attempting College English Rate**): **4.6%**
- * Percent of entering **English 49** cohorts over the 5-year study who ultimately pass **English 101** (college English) within the first year: (**1-year English 49 Cohort Progression to Passing College English Rate**): **3.4%**
- * Of the students who pass **English 49**, the proportion who subsequently enroll in English 101 (college English) within the first year: (**1-year Progression of Passing English 49 students Who Ultimately Attempt English 101 in the Same Year**): **8.0%**
- * Of the students who pass **English 49**, the proportion who subsequently pass **English 101** (college English) within the first year: (**1-year Progression of Passing English 49 Students to Ultimate Passage of English 101**): **5.9%**
- * Percent of English 101 attempting students who ultimately pass English 101 within the first year: (**English 101 Pass Rate in Year 1**): **73.6%**

APPENDIX A: 3-Year, 2-Year, and 1-Year Progression Data Trends by Colleges Compared for Cohorts2 Levels Below College English

(Source: CCC DataMart Basic Skills Progress Tracker)

3-Year Success/Persistence Rates Fall 2014 Cohorts for Students Beginning English Writing at 2 Levels Below College English (Equivalent to ENGL 49)
Tracking: Fall 2013 Cohort through Summer 2016

College	2 Levels Below % Success	1 Level Below % Success	College Level % Success
Bakersfield College	61.1%	32.3%	24.3%
Citrus College	65.8%	40.6%	19.7%
City College of San Francisco	76.3%	55.9%	47.7%
Deanza College	84.4%	60.9%	47.4%
Diablo Valley College	55.6%	36.9%	28.1%
Folsom Lake College	85.3%	56.5%	39.4%
Fresno City College	62.3%	33.4%	15.7%
L.A. City College	68.1%	46.5%	28.2%
Las Positas	80.0%	38.0%	33.0%
Long Beach City College	71.4%	64.3%	50.0%
Merced College	68.8%	43.1%	30.5%
Reedley College	55.9%	33.3%	15.3%
Sacramento City College	63.0%	32.4%	23.4%
San Diego City College	79.3%	45.0%	27.3%
San Joaquin Delta	60.1%	37.7%	25.1%
Santa Rosa Junior College	74.4%	47.4%	33.1%
Modesto Junior College	64.6%	43.1%	28.9%

2-Year Success/Persistence Rates Fall 2014 Cohorts for Students Beginning English Writing at 2 Levels Below College English (Equivalent to ENGL 49)
Tracking: Fall 2014 Cohort through Summer 2016

College	2 Levels Below % Success	1 Level Below % Success	College Level % Success
Bakersfield College	69.1%	18.3%	31.1%
Citrus College	68.0%	45.1%	24.1%
City College of San Francisco	72.3%	52.2%	41.7%
Deanza College	87.0%	58.7%	49.5%
Diablo Valley College	52.2%	36.6%	21.1%
Folsom Lake College	80.2%	52.1%	35.3%
Fresno City College	64.6%	30.3%	13.1%
L.A. City College	72.1%	50.0%	30.7%

2-Year Success/Persistence Rates Fall 2014 Cohorts (Cont.)			
College	2 Levels Below	1 Level Below	College Level
	<u>% Success</u>	<u>% Success</u>	<u>% Success</u>
Las Positas			
Long Beach City College	59.8%	31.5%	26.1%
Merced College	68.4%	26.9%	14.3%
Reedley College	68.8%	43.1%	30.5%
Sacramento City College	50.5%	14.7%	2.6%
San Diego City College	65.5%	32.3%	19.5%
San Joaquin Delta	81.8%	45.3%	28.0%
Santa Rosa Junior College	64.9%	27.2%	20.0%
Modesto Junior College	66.1%	34.2%	27.9%
	62.9%	38.3%	20.9%

1-Year Success/Persistence Rates Fall 2015 Cohorts for Students Beginning English Writing at 2 Levels Below College English (Equivalent to ENGL 49)			
Tracking: Fall 2015 Cohort through Summer 2016			
College	2 Levels Below	1 Level Below	Transfer Level
	<u>% Success</u>	<u>% Success</u>	<u>% Success</u>
Bakersfield College	44.3%	7.2%	10.8%
Citrus College	73.1%	42.5%	3.7%
City College of San Francisco	72.0%	42.6%	20.5%
Deanza College	85.8%	53.0%	36.5%
Diablo Valley College	64.9%	26.0%	1.9%
Folsom Lake College	78.7%	45.2%	4.1%
Fresno City College	53.9%	18.5%	2.7%
L.A. City College	71.3%	39.9%	7.4%
Las Positas	64.5%	32.9%	1.3%
Long Beach City College	70.3%	26.9%	2.8%
Merced College	63.6%	34.2%	3.9%
Reedley College	37.7%	13.0%	1.4%
Sacramento City College	63.0%	22.5%	2.5%
San Diego City College	77.4%	29.2%	3.0%
San Joaquin Delta	60.0%	18.4%	6.2%
Santa Rosa Junior College	68.2%	35.2%	7.6%
Modesto Junior College	60.2%	28.7%	5.8%

APPENDIX B: 3-Year, 2-Year, and 1-Year Success and Progression Trends by Ethnicity for MJC Cohorts Entering 2 Levels Below College English

(Source: CCC DataMart Basic Skills Progress Tracker)

3-Year Success Rates by Ethnicity for Fall 2013 Cohort for MJC Students
Beginning English Writing at 2 Levels Below College
 Tracking: Fall 2013 Cohort through Summer 2016

	2 Levels Below	English 50	College Level
<u>Ethnicity</u>	<u>% Success</u>	<u>% Success</u>	<u>% Success</u>
African-American	57.1%	33.3%	33.3%
Asian	77.3%	45.5%	36.4%
Hispanic	62.3%	42.0%	25.6%
White	70.6%	50.6%	36.4%
(GAP)	-20.2%	-17.3%	-10.8%
All MJC Students	64.6%	43.1%	28.9%

2-Year Success Rates by Ethnicity for Fall 2014 Cohort for MJC Students
Beginning English Writing at 2 Levels Below College
 Tracking: Fall 2014 Cohort through Summer 2016

	2 Levels Below	English 50	College Level
<u>Ethnicity</u>	<u>% Success</u>	<u>% Success</u>	<u>% Success</u>
African-American	43.8%	12.5%	6.3%
Asian	69.2%	53.8%	20.5%
Hispanic	64.7%	39.5%	20.7%
White	61.9%	37.4%	23.8%
(GAP)	-25.4%	-41.3%	-17.5%
All MJC Students	62.9%	38.3%	20.9%

1-Year Success Rates by Ethnicity for Fall 2015 Cohort for MJC Students
Beginning English Writing at 2 Levels Below College
 Tracking: Fall 2015 Cohort through Summer 2016

	2 Levels Below	English 50	College Level
<u>Ethnicity</u>	<u>% Success</u>	<u>% Success</u>	<u>% Success</u>
African-American	57.1%	33.3%	33.3%
Asian	77.3%	45.5%	36.4%
Hispanic	62.3%	42.0%	25.6%
White	70.6%	50.6%	36.4%
(GAP)	-20.2%	-17.3%	-10.8%
All MJC Students	60.2%	28.7%	5.8%

APPENDIX C: MJC English Placement Data for Students Entering Fall 2016

(Source: Internal Student Demographic Detail Report Data, MJC Office of Research and Planning, <http://www.mjc.edu/general/research/mjcplacementdatamathandenglishfall2016.pdf>)

MJC Placements Overall Fall 2016

	Student Count*	<u>English Placement Results</u>			
		-		College	No
		<u>ENGL</u> 49	<u>ENGL</u> 50	<u>ENGL</u>	<u>Placement</u>
Total Entering MJC	2,950	28%	33%	26%	13%
African-Americans	98	40%	31%	14%	15%
Asians	122	32%	29%	25%	14%
Hispanics	1,658	31%	34%	21%	14%
Whites	976	20%	32%	37%	11%

MJC Placements for Selected Area High Schools Fall 2016

<u>High School</u>	Count*	<u>English Placement Results</u>			
		-		College	No
		<u>ENGL</u> 49	<u>ENGL</u> 50	<u>ENGL</u>	<u>Placement</u>
Central Valley High	118	33%	32%	26%	9%
Ceres High	126	23%	39%	22%	16%
Fred C. Beyer High	147	23%	34%	32%	11%
Grace Davis High	100	39%	24%	26%	11%
Gregori High	151	28%	38%	23%	11%
James C. Enochs High	207	21%	34%	38%	7%
Modesto High	166	25%	28%	30%	17%
Oakdale High	96	22%	40%	33%	5%
Oresitimba High	45	36%	22%	24%	18%
Patterson High	77	35%	30%	18%	17%
Peter Johansen High	113	26%	36%	22%	16%
Pitman High	114	27%	31%	27%	15%
Riverbank High	53	34%	30%	25%	11%
Thomas Downey High	135	29%	34%	30%	7%
Turlock High	102	30%	33%	27%	10%
Valley Charter High	17	6%	41%	47%	6%
Waterford High	39	39%	39%	21%	1%

* Student count represents students who enrolled at Modesto Junior College for the first time in Fall 2016, and who graduated from high school in 2015 or 2016.