



EDUCATIONAL MASTER PLAN 2018-2023

EMP EDUCATIONAL MASTER PLAN 2018-2023

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Message from the President



Merced College is leading innovation through best practice educational programs and services. We have model, fast-track career technical education programs, accelerated curriculum, high profile transfer agreements, robust degree and certificate programs, and one of the nation's best workforce development and training programs with our state and nationally recognized Customer Service Academy and Emerging Leaders Institute. To continue our "forward-thinking" and innovative approaches to education, we are proud to present this 2018-2023 Merced College Educational Master Plan.

The Merced College Educational Master Plan is one of the most important documents we produce as an

institution. It defines who we are and, more importantly, who we want to be. It is the roadmap to what educational programs we offer to our community as well as the framework of our strategic implementation planning efforts. This five-year Educational Master Plan represents and echoes the collective voices of both our internal and external communities with a forward-thinking and bold plan for our District.

Outlined in this report are the six goals to lead us into the next five years:

- 1) Strengthen Enrollment Management and Student Success
- 2) Increase Student Access
- 3) Broaden Resource Development Efforts and Allocations
- 4) Strengthen Campus Safety and Facilities Planning
- 5) Improve and Strengthen Key Stakeholder Partnerships
- Invest in Improved Institutional Effectiveness, Technology and Systems Design

Through a collaborative effort among all constituencies, including community stakeholders, these goals have become our framework to transform our practices, services, and educational programs. This report highlights these goals in greater detail along with the objectives and plans for our strategic implementation plan.

I am confident you will recognize our institution's strengths and opportunities. Additionally, you will see a reflection of our mission, vision, and core values. I continue to be proud of the consistently great work completed at Merced College aimed at preparing students for their academic and career goals.

I want to extend my appreciation to our consultants throughout the process, the Collaborative Brain Trust, the chair of the task force, Dr. Mike McCandless, the members of the Educational Master Plan Task Force, and all stakeholders who participated both internally and externally to develop this comprehensive plan.

On behalf of the District and the Merced College Board of Trustees, we appreciate your continued efforts in making this plan a reality. We welcome your support in helping us advance our master planning efforts and innovations to better serve our students and this amazing community.

Sincerely,

Chi Votelli.

Chris Vitelli Superindent/President



Merced College

Educational Master Plan 2018-2023

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"Merced College will ensure equitable and success for all students with efforts focusing on reducing disproportionate impacts for student population groups."

> -Merced College Equity Plan Statement of Purpose



Overview of the Educational Master Plan

Merced College recently received reaffirmation of accreditation from the Accrediting Commission for Community and Junior Colleges, Western Association of Schools and Colleges; completed construction projects from its facilities bond, passed over a decade ago; and hired Mr. Vitelli as its new Superintendent/President to lead the College into the future. A new, comprehensive Educational Master Plan is desireable as the College embarks on a new era and plans the programs, services, and facilities needed for the future to serve its students and communities.

The Educational Master Plan (EMP) provides the foundation for long-range planning for the College. The EMP provides direction for a multi-year Strategic Plan to operationalize the EMP, and a Facilities Master Plan. The College's proposed timeline for these efforts are as depicted below.





History of the College

Since 1962, Merced College has delivered high-quality programs for academic transfer, vocational/career-technical training, community education, and student services. Classes were first offered in September 1963 in facilities situated at the Merced County Fairgrounds. The main campus became operational in the spring of 1967. The College has grown in enrollment and infrastructure over the last 54 years.

The Merced Community College District encompasses 2,184 square miles and includes Merced County, the Chowchilla Union High School District in Madera County, and the Dos Palos Joint Union Elementary School District. The District also serves the Mariposa service area. The Governing Board is comprised of seven elected members. Merced College is a California Public Community College and was formed by a vote of the people of the Le Grand and Merced Union High School Districts on February 27, 1962. The Merced Community College District became effective for all purposes July 1, 1963.

The main campus of Merced College covers 269 acres; the Los Banos Campus is an approved educational center of Merced College, located on 120 acres. In addition, the College has a Business Resource Center in downtown Merced and also offers classes at locations outside its two main locations for residents in Delhi, Dos Palos, Chowchilla, and Mariposa.

Merced College is an integral part of the community fabric and has embraced its vision of "providing transformative and empowering educational experiences to meet student and community needs." The College is best known in the community by its motto "Students are our focus, and we are known by their success" and its service to students to meet their educational goals.





Merced College has adopted a vision, mission, a set of core values, and a Motto, as defined below. These statements provide the foundation and framework for the Educational Master Plan.

VISION

Merced College will provide transformative and empowering educational experiences to meet student and community needs.

MISSION

Growing our community through education and workforce training:

- Lifelong Learning
- Basic Skills
- Career Technical Education
- Transfer
- Degree/Certificate Programs

Ensuring student success through equitable access, continuous quality improvement, institutional effectiveness, and student achievement.

CORE VALUES

Student Success

We focus on student access and success.

Supportive Environment

We promote an atmosphere of trust where communication and teamwork cultivate a rich environment for teaching and learning.

Proactive

We utilize agility, innovation, and responsible risk-taking to create our preferred future.

Partnership

We actively engage with the community and community partners to respond to cultural, educational, economic, and technological needs.

Diversity

We embrace diversity and equity as community strengths and celebrate these qualities in our institution.

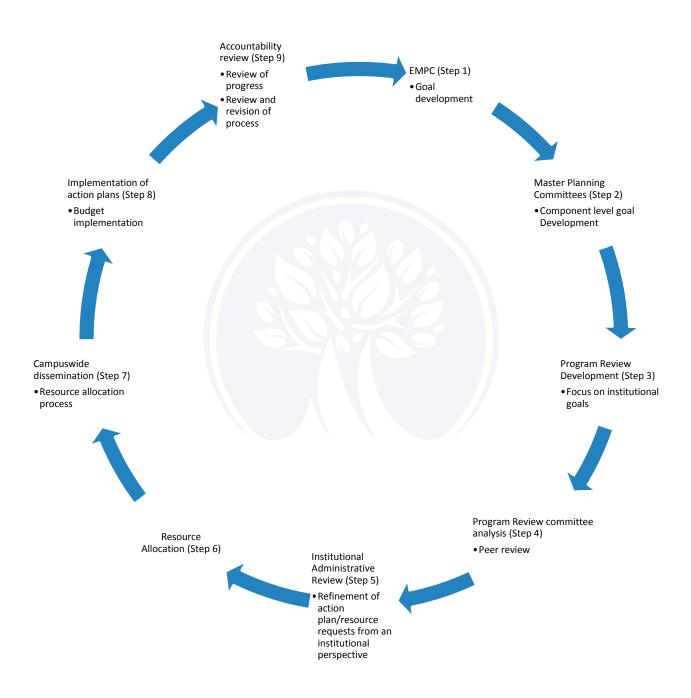
Self-Reflection

We strive for continuous improvement based on data-driven self-reflection, objective assessment, and dialogue.

MOTTO

"Students are our focus and we are known by their success."

The diagram below depicts the Merced College Integrated Planning and Program Review Cycle. The Educational Master Plan, and its complementary Strategic Plan will play a key role in this cycle. Some refinement of the Integrated Planning Cycle may occur as the College implements its new EMP.



COLLEGE EMP DEVELOPMENT PROCESS

EMP Task Force

Development of the Educational Master Plan began with the formation of an EMP Task Force. This task force was comprised of representatives from across Merced College, and its Los Banos Education Center, and included faculty, management, classified staff, and student representatives. The EMP Task Force met monthly throughout the process, steering EMP development and serving as a conduit for input as various components were completed. The EMP Task Force also served as a communication vehicle and provided transparency to the process. The EMP Task Force Purpose Statement, including its membership, can be found in Appendix A.

Three-Phase Development Process and Time Frame

The College contracted with the Collaborative Brain Trust (CBT), a national firm located in Sacramento that has been serving community colleges across the United States since 2008. CBT's experienced professionals have specific community college expertise, and have provided support to over 50 of California's community colleges. CBT's work is grounded in data collection and analysis, and actualized through user-friendly implementation plans. Recognized for its core values of innovation, collegiality, transparency, commitment to student learning, and an ability to respond to the unique challenges specific to each client district, CBT provided technical services and facilitated the work of Merced College and its EMP Task Force in the development of the Merced College Educational Master Plan.

The development process was conducted in three phases:

❖ Phase One: Discovery

Phase Two: Preparation of Data Portfolio

Phase Three: EMP Goal Setting

The timeframe for the three phases, and final review and goal adoption was as depicted below:



Phase One: Discovery

The Discovery Phase was designed to gather as much information as possible about the internal and external environment of Merced College. To that end, this phase focused on four data sources:

- Internal environmental scan reviewing existing data and documents on such aspects as student demographics, enrollments and success; staff demographics; programs; services; facilities; etc.
- External environmental scan community and workforce data; service area population and employment data; and labor market analysis, trends, and projections
- Internal stakeholder input interviews, listening/dialogue sessions, campus forums, and student/staff surveys
- External stakeholder input interviews, listening/dialogue sessions, forums, and surveys

A variety of facilitation techniques were employed in this phase, such as "listening sessions" to support the free flow of ideas and encourage critical and creative thinking, and "visioning dialogue sessions" for provocative,

future-oriented, and innovative thought and discussion. Examples from other colleges, and national trends were infused into these engagement strategies.

Phase Two: Preparation of Data Portfolio

The four data sources, depicted below, resulted in the gathering of a rich database of both quantitative data and qualitative information.



These data were compiled and organized into a comprehensive Merced College Data Portfolio, which was then synthesized into key themes, and Planning Assumptions were identified in preparation for the next phase - goal setting.

Phase Three: Goal Setting

Following development of the Data Portfolio, and identification of Planning Assumptions, the EMP Task Force held an all-day goal-setting session for development of the five-year Goals and Objectives. These were further reviewed and refined, and provided to the Executive staff, President, and Board of Trustees. The Board held a formal Work Session in March for in-depth review and discussion, and adopted the five-year goals and objectives at its Regular Meeting in April.

The adopted goals and objectives form the core of the Educational Master Plan, and provide a roadmap for planning programs and services for the future. The goals and objectives set the stage for development of an operational Strategic Plan, and also for initiation of the Facilities Master Planning effort.



DATA PORTFOLIO

Internal Environmental Scan

Overview

The Internal Environmental Scan is an analysis of the College's students and staff. The scan includes quantitative and qualitative data from a variety of sources.

The following data describes the students who attend the College.

FTES and Headcount

The following section provides historical FTES and headcount data, by semesters and academic years. The data in this section includes all FTES, credit and non-credit. For the fall semesters from 2000 to 2017, credit FTES at the College has generally increased over time while non-credit FTES has decreased. Fall semester FTES reached a maximum in 2010 (5,077 FTES), but has experienced a decline in recent years.

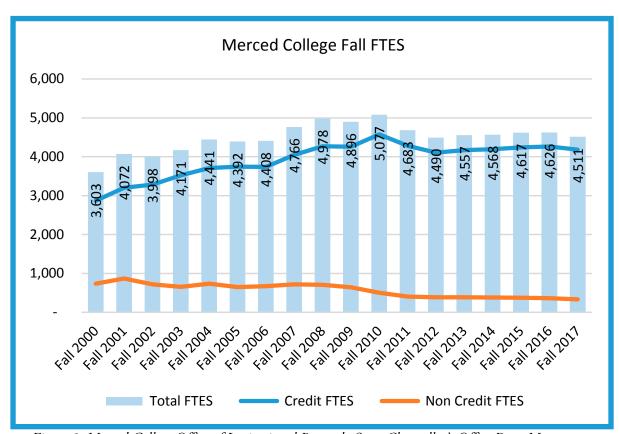


Figure 1: Merced College Office of Institutional Research; State Chancellor's Office Data Mart

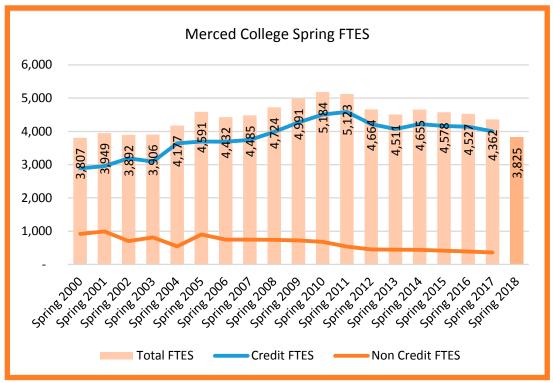


Figure 2: Merced College Office of Institutional Research; 2018 data is an estimate

Summer FTES reached a peak in 2008 (991 FTES).

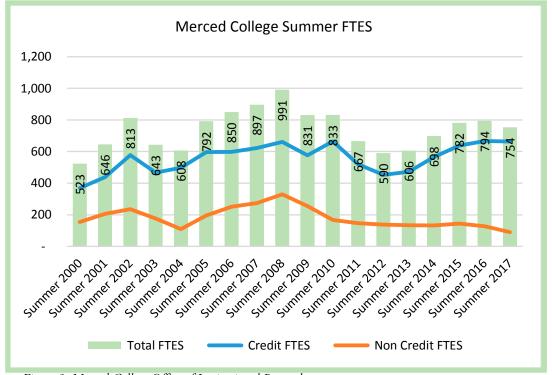


Figure 3: Merced College Office of Institutional Research

The table below shows the College's FTES and Headcount for fall semesters from 2000 to 2017.

	Merced College FTES and Headcount								
Term	Credit FTES	Non-Credit FTES	Total FTES	Headcount					
Fall 2000	2,869	734	3,603	13,415					
Fall 2001	3,204	868	4,072	14,889					
Fall 2002	3,280	717	3,998	14,086					
Fall 2003	3,520	651	4,171	12,563					
Fall 2004	3,707	734	4,441	12,842					
Fall 2005	3,741	650	4,392	12,655					
Fall 2006	3,737	671	4,408	12,538					
Fall 2007	4,049	717	4,766	13,485					
Fall 2008	4,269	708	4,978	14,124					
Fall 2009	4,256	640	4,896	13,439					
Fall 2010	4,574	504	5,077	13,037					
Fall 2011	4,279	405	4,683	11,588					
Fall 2012	4,106	384	4,490	11,271					
Fall 2013	4,171	386	4,557	11,153					
Fall 2014	4,191	377	4,568	11,053					
Fall 2015	4,241	376	4,617	11,178					
Fall 2016	4,263	363	4,626	11,473					
Fall 2017	4,179	332	4,511	11,571					
Source: Califo	rnia Commun	ity Colleges Cha	ncellor's Office	e Data Mart					

The following chart shows the College's total FTES by academic year. The highest levels of FTES were reached between 2008 and 2011. The 2017-2018 academic year includes an estimate of FTES for Spring 2018.

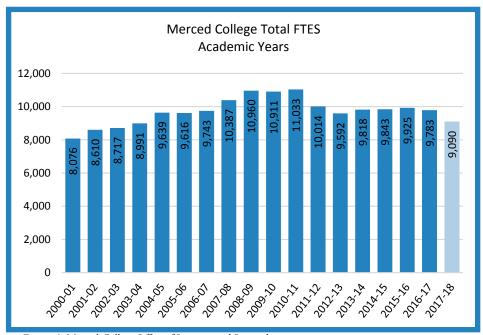


Figure 4: Merced College Office of Institutional Research

Gender Profile

The College has a majority of female students. Over the past six fall semesters, that majority has increased from 56.4% to 58.4%. Over this time period, the gender breakdown at community colleges statewide was 53.5% female and 45.5% male.

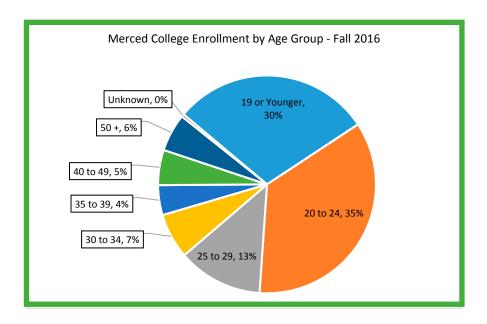
Merced College Enrollments by Gender									
Gender	nder Fall Fall Fall Fall Fall Fall 2012 2013 2014 2015 2016 2017						Change (percentage points)		
Female	56.4 %	56.9 %	56.6 %	58.2 %	58.1 %	58.4 %	+2.0		
Male	42.3 %	41.9 %	42.3 %	40.7 %	41.0 %	41.1 %	-1.1		
Unknown	1.4 %	1.2 %	1.1 %	1.1 %	0.9 %	0.5 %	-0.9		
Source: Cali	Source: California Community Colleges Chancellor's Office Data Mart								

Age Profile

The table below shows the breakdown of the student population by age group. The last column shows the change in percentage points, over the five-year period.

Age Group	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Change (percentage points)
19 or Younger	29.5 %	29.0 %	28.5 %	28.9 %	29.6 %	31.9 %	+2.4
20 to 24	35.4 %	36.6 %	37.4 %	37.5 %	35.4 %	33.5 %	-1.9
25 to 29	11.5 %	11.8 %	12.2 %	12.3 %	12.6 %	12.2 %	+0.7
30 to 34	6.8 %	6.6 %	6.2 %	6.3 %	6.7 %	6.7 %	-0.1
35 to 39	4.0 %	3.9 %	4.0 %	4.2 %	4.4 %	4.7 %	+0.6
40 to 49	5.7 %	5.2 %	5.1 %	4.7 %	5.2 %	5.8 %	+0.1
50 +	6.5 %	6.4 %	6.0 %	5.6 %	5.6 %	5.0 %	-1.5
Unknown	0.6 %	0.5 %	0.5 %	0.5 %	0.4 %	0.3 %	-0.3
Source: California Co							

The chart below shows the student segmentation by age group for the Fall 2016 semester. Nearly two-thirds of the students (65.0%) are 24 years of age or younger.



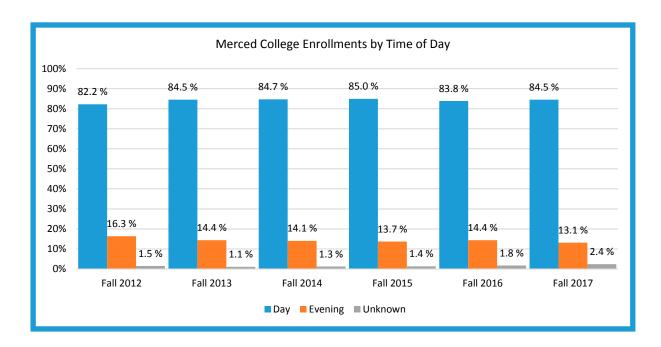
Race/Ethnicity Profile

The table below shows the student segmentation by race and ethnicity for the past 6 fall semesters. The percentage of Hispanic students has grown by 10 percentage points, from 51.3% to 61.4% over this time.

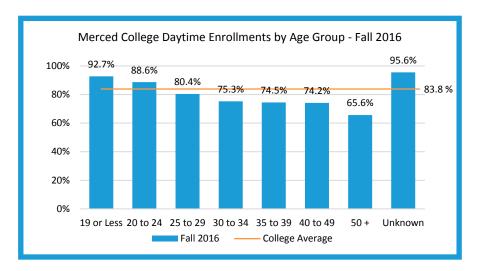
	Merced College Enrollments by Race and Ethnicity								
Race/Ethnicity	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	Change (percentage points)		
Hispanic	51.3 %	53.7 %	55.7 %	58.0 %	59.5 %	61.4 %	+10.1		
White Non-Hispanic	26.2 %	25.5 %	24.8 %	23.1 %	22.2 %	20.3 %	-5.8		
Asian	9.5 %	9.4 %	9.2 %	9.1 %	9.0 %	8.8 %	-0.7		
African-American	3.9 %	4.0 %	3.5 %	3.4 %	3.3 %	3.0 %	-0.9		
Multi-Ethnicity	2.1 %	2.5 %	2.6 %	2.7 %	2.8 %	3.3 %	+1.2		
Unknown	5.4 %	3.3 %	2.5 %	2.0 %	1.5 %	1.2 %	-4.1		
Filipino	0.8 %	0.8 %	0.8 %	0.9 %	1.0 %	1.1 %	+0.3		
American Indian/ Alaskan Native	0.5 %	0.5 %	0.5 %	0.4 %	0.4 %	0.5 %	-0.0		
Pacific Islander	0.4 %	0.3 %	0.4 %	0.4 %	0.4 %	0.4 %	-0.0		
Source: California Commu	nity Colleges	Chancellor's (Office Data N	1art					

Time of Day

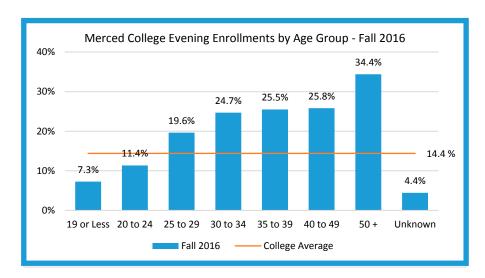
The chart below shows the percentages of students enrolled as daytime or evening students.



The following chart shows the percentages of daytime enrolled students, disaggregated by age group, for Merced College for the Fall 2016 semester. For comparison, the line shows the percentage of students enrolled as daytime students for all California community colleges.



The following chart shows the evening enrollments by age group for the same semester.



The following table shows the time of day enrollment percentages disaggregated by gender.

Merced College Headcount - Time of Day by Gender Fall 2016						
	Daytime	Evening				
Female	82.5%	15.4%				
Male 85.8% 13.0%						
Source: California Community Colleges Chancellor's Office Data Mart						

This table shows the percentages of students (within each race and ethnicity group) enrolled as daytime students.

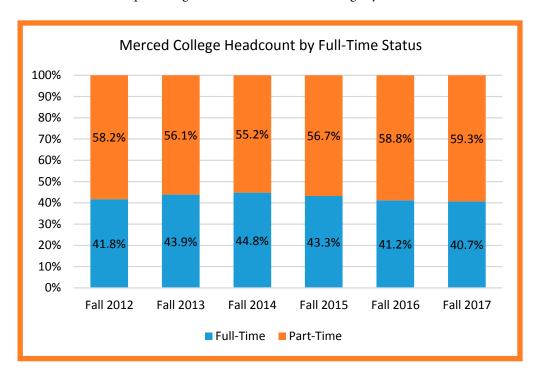
Merced College Daytime Enrollments by Race/Ethnicity - Fall 2016					
Race/Ethnicity	Daytime				
Filipino	89.3%				
Asian	89.2%				
Multi-Ethnicity	88.1%				
Pacific Islander	86.7%				
African-American	86.4%				
Hispanic	84.7%				
College Average	83.8%				
American Indian/Alaskan Native	80.9%				
Unknown	80.8%				
White Non-Hispanic	78.6%				
Source: California Community Colleges Chancellor's Office Data Mart					

This table shows the percentages of students (within each race and ethnicity group) enrolled as evening students.

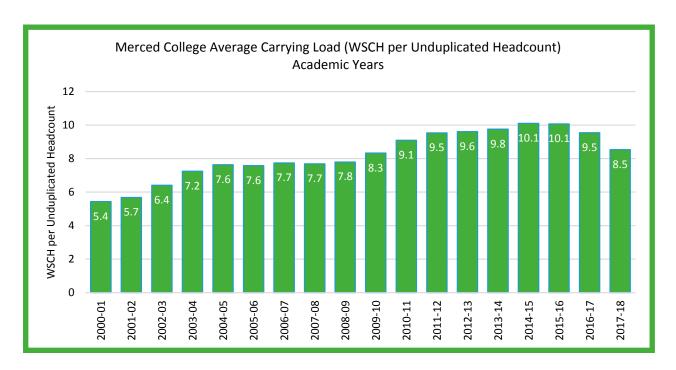
Merced College Evening Enrollments by Race/Ethnicity - Fall 2016					
Race/Ethnicity	Evening				
Unknown	19.2%				
American Indian/Alaskan Native	19.1%				
White Non-Hispanic	18.3%				
College Average	14.4%				
Hispanic	14.0%				
Pacific Islander	11.1%				
African-American	10.4%				
Multi-Ethnicity	10.3%				
Asian	10.0%				
Filipino	9.8%				
Source: California Community College Chancellor's Office Data Mart	s				

Unit Load

This chart shows the percentages of students enrolled as full-time (12+ units), and part-time students, over the past six fall semesters. The percentage of full-time students fell slightly over this time frame.

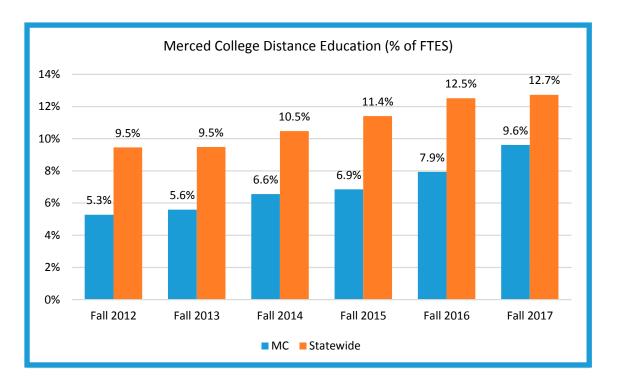


The following chart shows the trend in average student carrying load. The carrying load is calculated as the total WSCH (weekly student contact hours) divided by the unduplicated headcount.



Distance Education

This chart shows the percentages of FTES delivered by distance education for the College and for the entire California community college system. In Fall 2017, the College generated 9.6% of FTES from distance education. The average for all California community colleges is 12.7%.

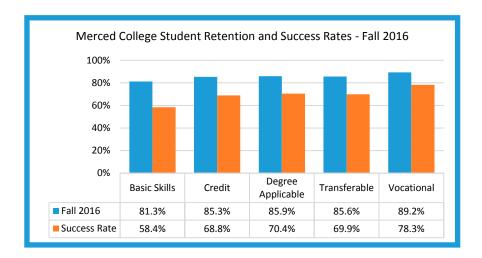


Student Retention and Success

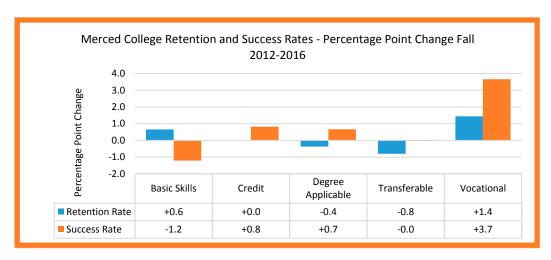
The table shows the retention and success rates for Merced College students over the past five fall semesters. The last column shows the percentage point change over the past five fall semesters.

	Mer	ced College F	Retention and	Success		
	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Change (Percentage Points)
Retention Rate						
Basic Skills	80.6%	81.4%	83.2%	80.6%	81.3%	+0.6
Credit	85.3%	84.7%	85.3%	85.8%	85.3%	+0.0
Degree Applicable	86.3%	85.3%	85.6%	86.7%	85.9%	-0.4
Transferable	86.4%	85.3%	85.4%	86.4%	85.6%	-0.8
Vocational	87.8%	87.8%	87.9%	89.9%	89.2%	+1.4
Success Rate						
Basic Skills	59.6%	58.4%	58.8%	58.9%	58.4%	-1.2
Credit	68.0%	68.0%	68.3%	69.6%	68.8%	+0.8
Degree Applicable	69.7%	69.7%	69.9%	71.4%	70.4%	+0.7
Transferable	69.9%	69.7%	69.7%	70.9%	69.9%	-0.0
Vocational	74.6%	76.4%	77.0%	78.7%	78.3%	+3.7
Source: California Com	munity Colleg	ges Chancello	r's Office Dat	a Mart		

The chart shows the rates of retention and success for the Fall 2016 semester.



This chart shows the percentage point change in retention and success over the Fall 2012 to Fall 2016 time period. The largest increases in retention and success were found in the CTE (vocational) area.



Program Award

The table shows a summary of program awards, by award type, for the past five academic years. The largest increases were in AST degrees (+650%) and certificates requiring 30-60 units (+268%).

Merced College Program Awards by Academic Year									
2012-2013 2013-2014 2014-2015 2015-2016 2016-2017 % Change									
Associate in Science for Transfer (A.ST) Degree	30	83	132	198	225	650%			
Associate in Arts for Transfer (A.AT) Degree	85	107	120	192	216	154%			
Associate of Science (A.S.) degree	94	93	98	114	124	32%			
Associate of Arts (A.A.) degree	594	537	468	518	508	-14%			
Certificate requiring 60+ semester units	15	16	10	14	13	-13%			
Certificate requiring 30 to < 60 semester units	115	155	201	335	423	268%			
Certificate requiring 18 to < 30 semester units	18	26	33	29	44	144%			
Certificate requiring 12 to < 18 units				1	2	-			
Total	951	1,017	1,062	1,401	1,555	64%			
Source: California Community Colleges Chancellor's	Office Data Ma	art							

Detailed program awards data can be seen in Appendix B - Program Awards.

Student Transfers

The table below shows the numbers of students transferring to in-state private and out-of-state four-year universities and colleges. This is a partial list, showing the four-year institutions with the largest numbers of transfers from Merced College.

Merced College Transfers to Private Universities and Colleges by Academic Year (Partial List)							
	2011- 2012	2012- 2013	2013- 2014	2014- 2015	2015- 2016	Total	
Top In-State Private							
Fresno Pacific University	16	22	41	32	31	142	
National University	28	12	9	12	5	66	
Ashford University	15	17	7	4	7	50	
Brandman University	14	6	8	6	10	44	
Devry University-California	12	4	9	2	1	28	
ITT Technical Institute-Rancho Cordova	5	4	9	2	3	23	
Argosy University-The Art Institute		1	1	15	1	18	
Humphreys College-Stockton And Modesto	6	4	2	1	1	14	
Azusa Pacific University		1		1	4	6	
Academy Of Art University	2	2	1			5	
Trident University International	3			2		5	
Top Out-of-State							
University Of Phoenix-Arizona	53	30	32	38	18	171	
Grand Canyon University		5	12	13	14	44	
American Public University System		8	9	7	4	28	
Western Governors University	7	1	7	6	4	25	
Kaplan University-Mason City Campus		10	2	5	6	23	
The University Of Texas At Arlington	7	5	3	4	1	20	
University Of Maryland-University College	2	4	7	3	4	20	
Thunderbird School Of Global Management	2		3	6	6	17	
Union Institute & University	1	5	3	3	4	16	
Everest University-Pompano Beach	3	5	4	1		13	
Brigham Young University-Idaho	2	2	2	2	4	12	
Southern New Hampshire University			2	2	8	12	
Adams State University	4	3	2		2	11	
Columbia Southern University			1	5	4	10	
Source: Merced College Office of Institutional Research							

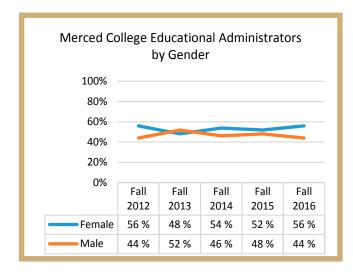


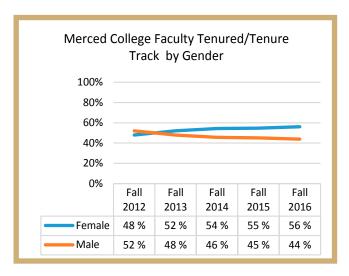
Staff Demographics

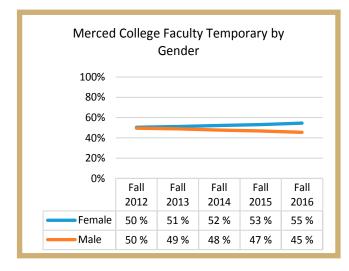
These charts show the demographics of the College staff. Each metric is analyzed by staff category: educational administrators, full-time faculty, part-time (adjunct) faculty and classified.

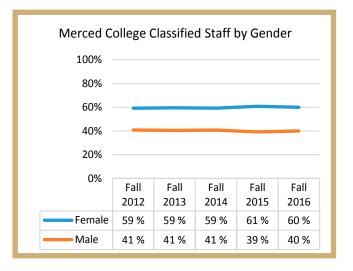
Staff by Gender

These charts show the staff percentages disaggregated by gender.





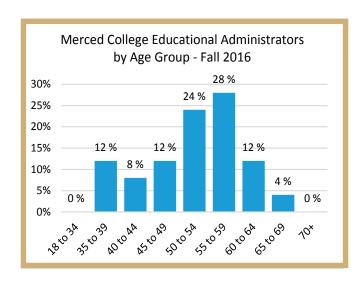


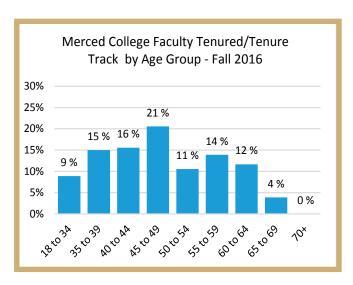


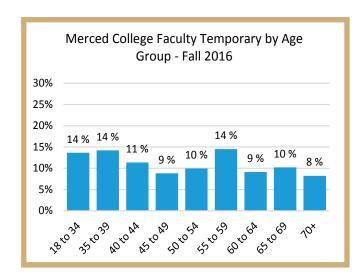


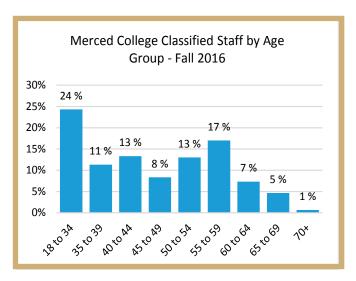
Staff Age Group

This section shows the staffing levels disaggregated by age group.





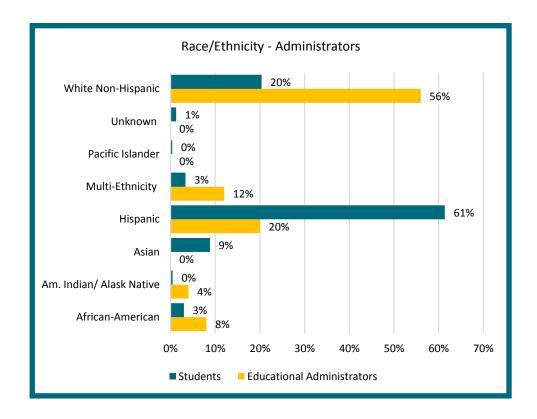


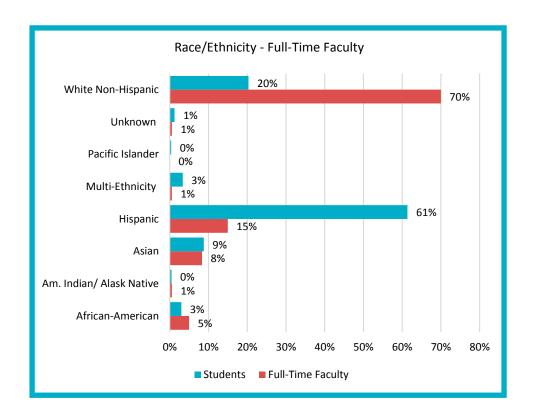


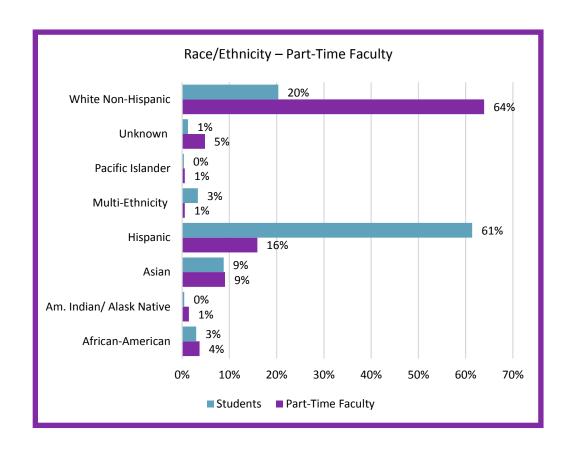


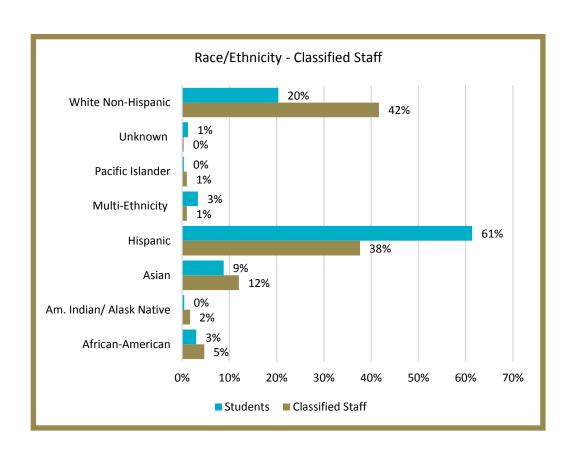
Staff by Race/Ethnicity

This section shows staffing levels disaggregated by race and ethnicity.





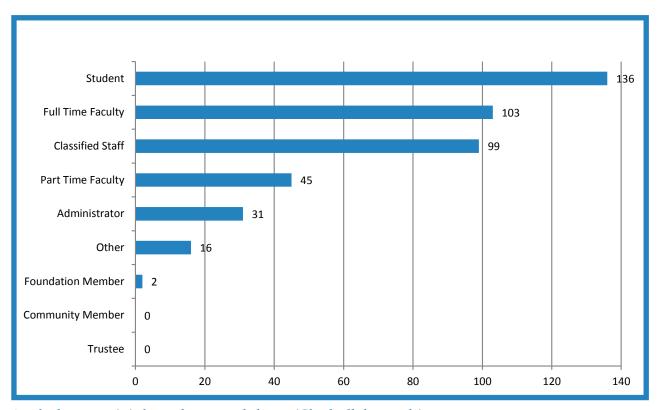




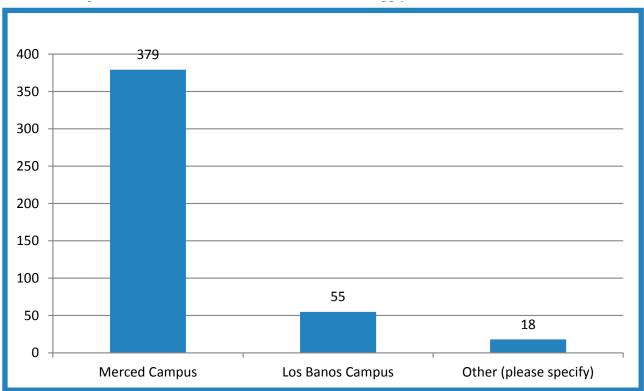
Survey Results

All Respondents

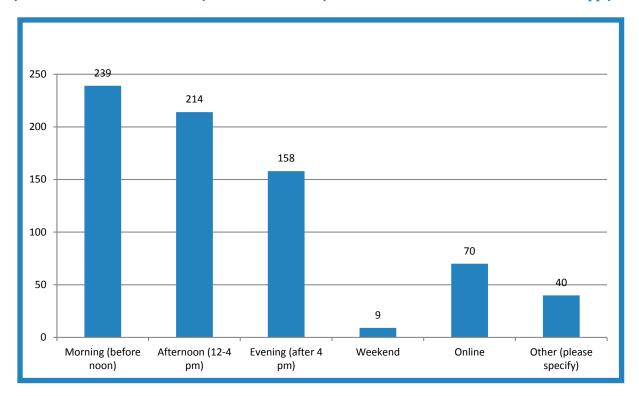
What is your primary role at the College?



At which campus(es) do work or attend classes?(Check all that apply)

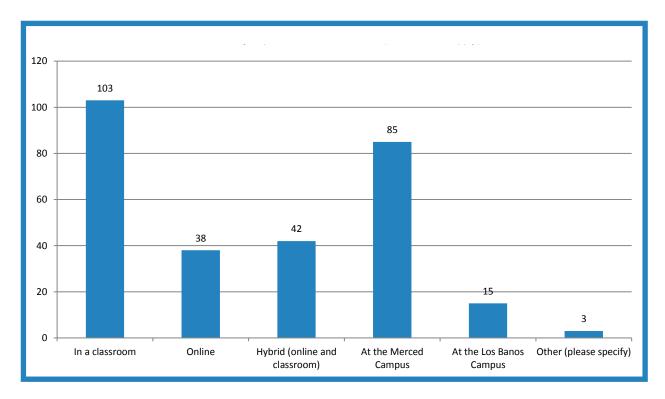


If you are a student, staff or faculty member, when do you attend/instruct classes? (Check all that apply)

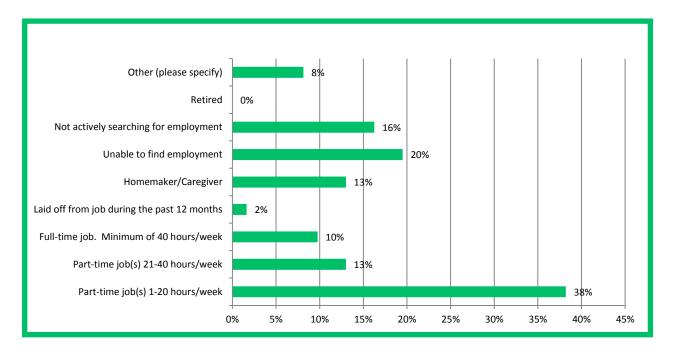


Student Responses

How would you prefer to attend classes? (check all that apply)



Which of the following describes your employment status? (Check all that apply)

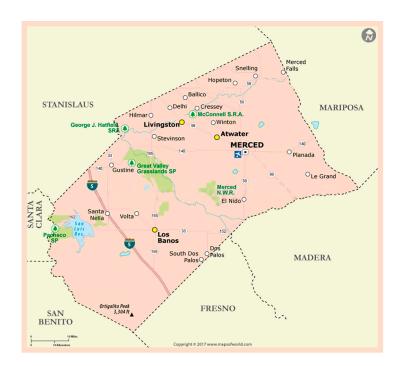


What is the zip code of your primary residence or mailing address?

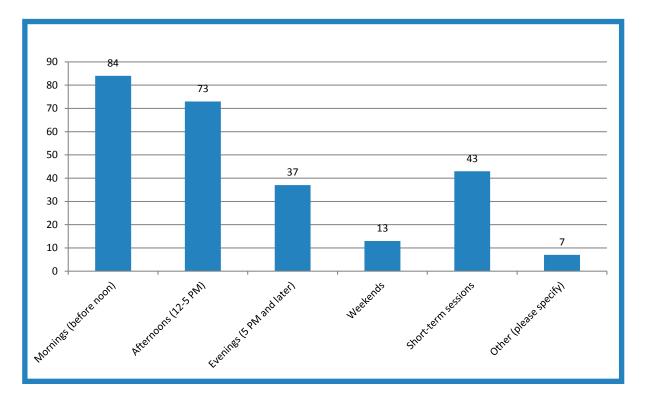
The zip codes were converted to city/town of residence yielding the following results.

City	Respondents
Merced	56
Atwater	14
Los Banos	13
Livingston	7
Turlock	5
Chowchilla	5
Dos Palos	3
Winton	3
Hilmar	3
Gustine	2
Mariposa	2
Citrus Heights	1
Catheys Valley	1
Planada	1
Modesto	1
Waterford	1
Newman	1
Denair	1
Patterson	1
Grand Total	121

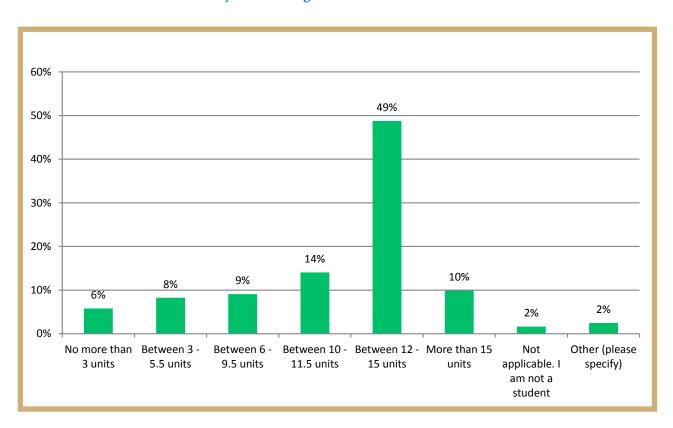
*Only 121 of the respondents answered this question



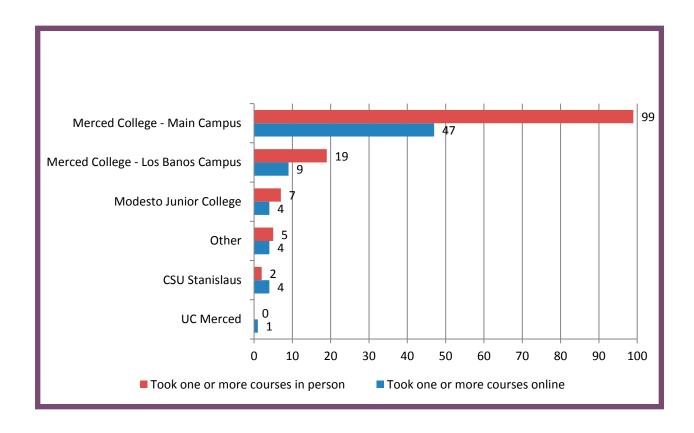
Please indicate when you would prefer to take classes? (Check all that apply)



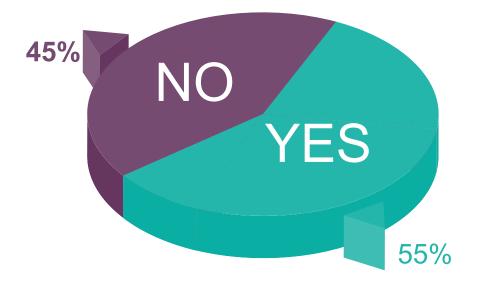
Please indicate the number of units you are taking this semester.



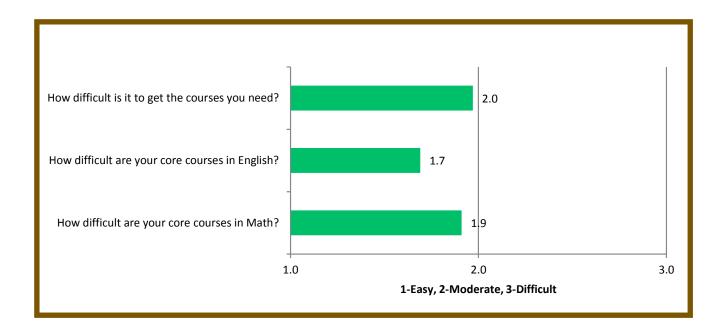
Which of the following Merced College locations or other colleges have you attended for at least one course in the past two years, either online or in person? (Check all that apply)



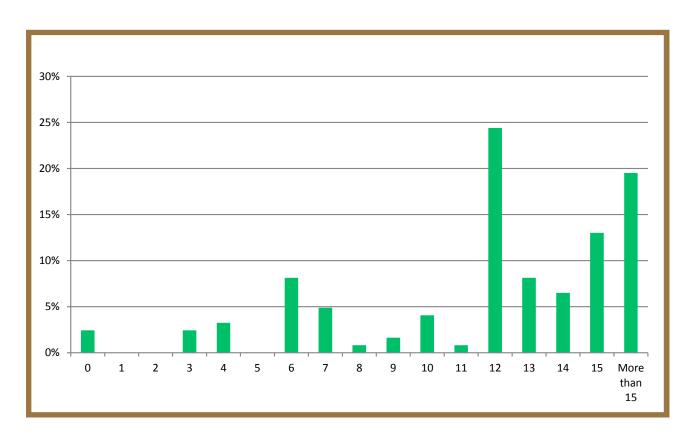
If you had the opportunity, would you prefer to take a course that allows you a limited number of on site lectures, while a significant portion of the course work is done online? Do you see an advantage to structuring a course in this manner?



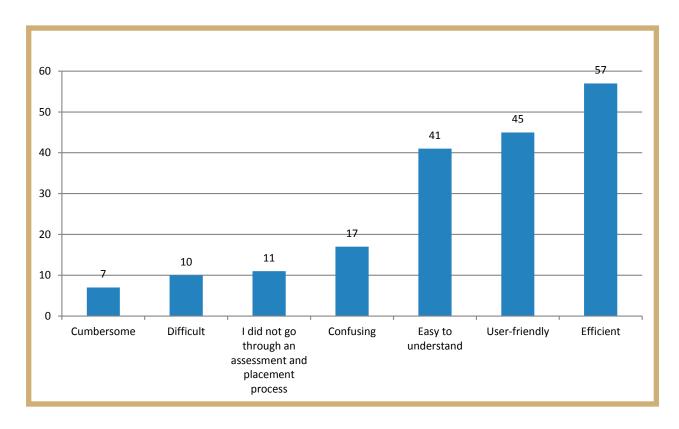
Please rate the following:



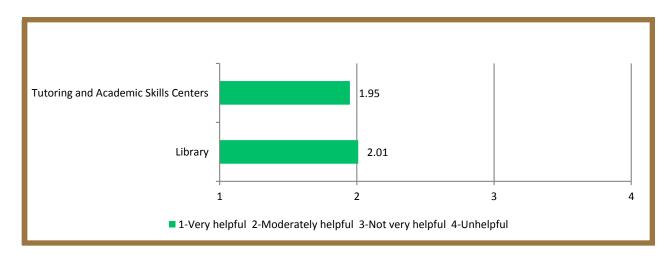
How many units to you plan on taking next semester?



How was the assessment and placement process? (Select all that apply)



How would you rate the following campus services?

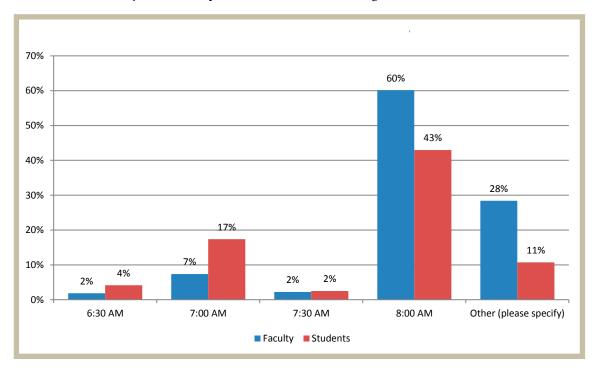




What time should classes start in the morning?

This question was asked to students. Faculty were asked, "What time do you think students would prefer that classes start in the morning?" The results are shown side-by-side in the following chart.

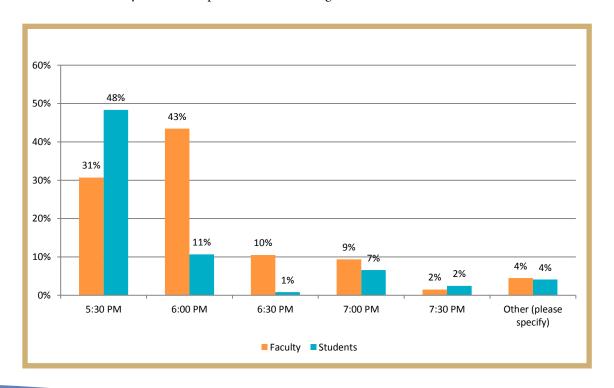
More students than faculty indicated a preference for earlier morning start times.



What time should classes start in the evening?

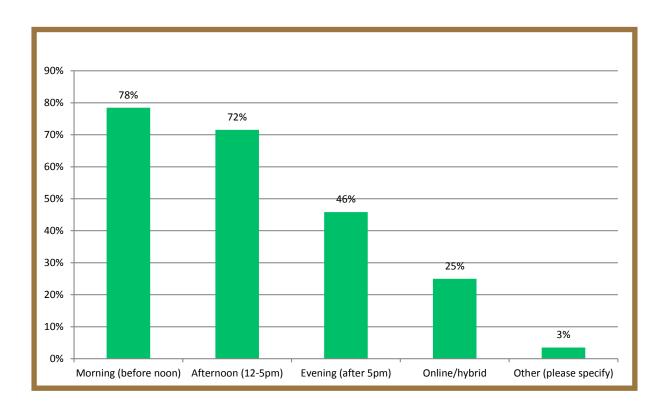
This question was asked to students. Faculty were asked, "What time do you think students would prefer that classes start in the evening?" The results are shown side-by-side in the following chart.

More students than faculty indicated a preference for starting classes at 5:30 PM.

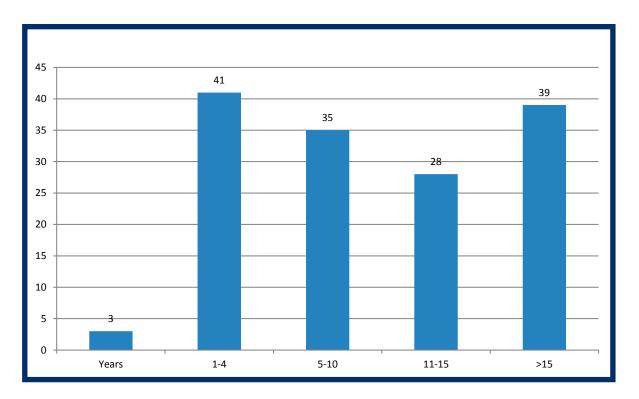


Faculty Responses

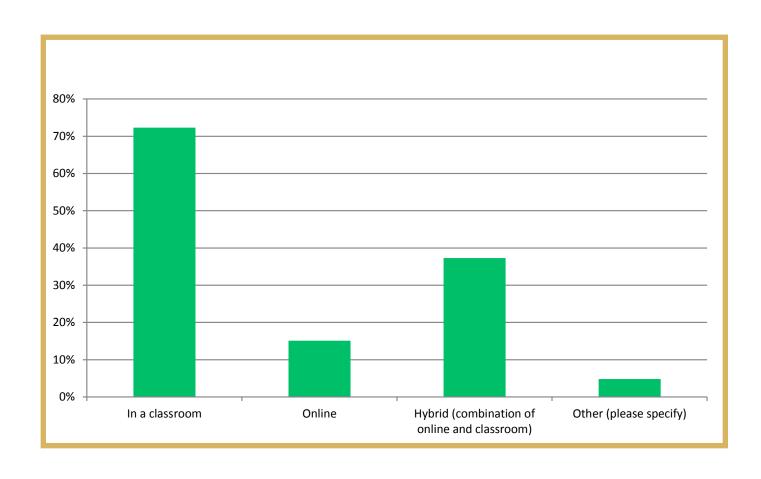
When do you teach classes (Check all that apply)?



How long have you been with the College?



How do you think most students prefer to attend classes?

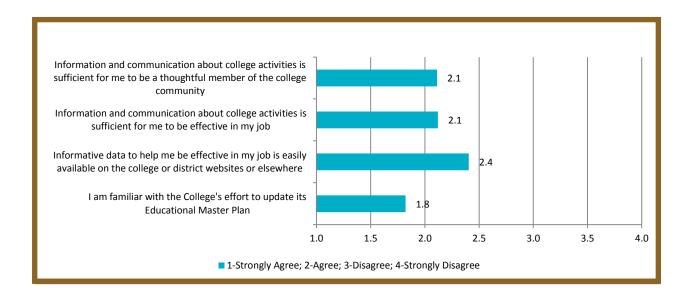




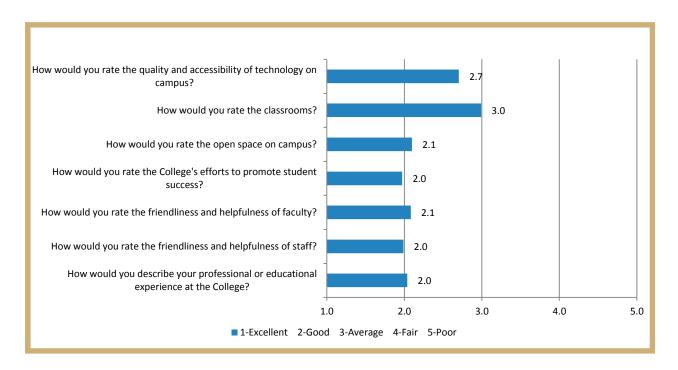
All Non-Students

Please select a response for each statement.

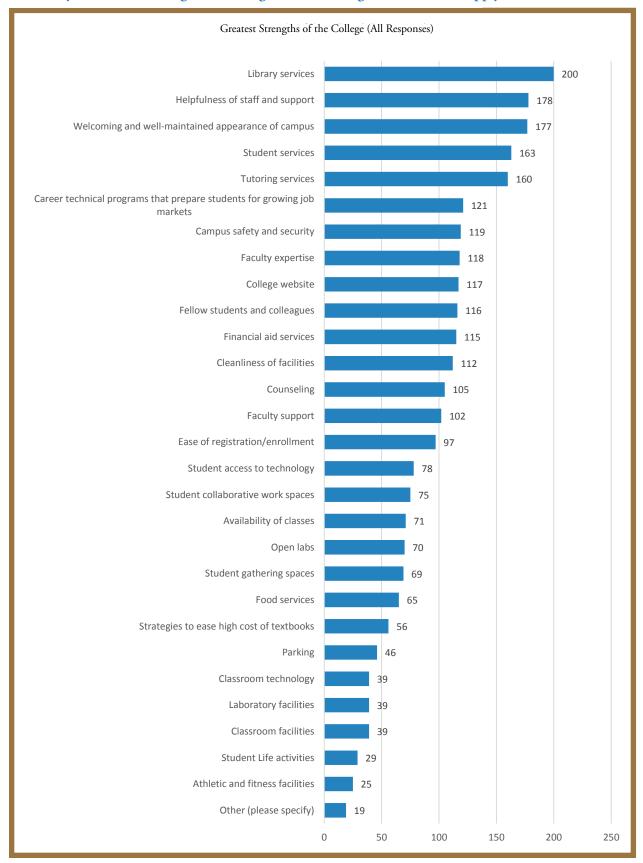
The chart shows the average response for each question. A response of 1 is "Strongly Agree" while a response of 4 is "Strongly Disagree".

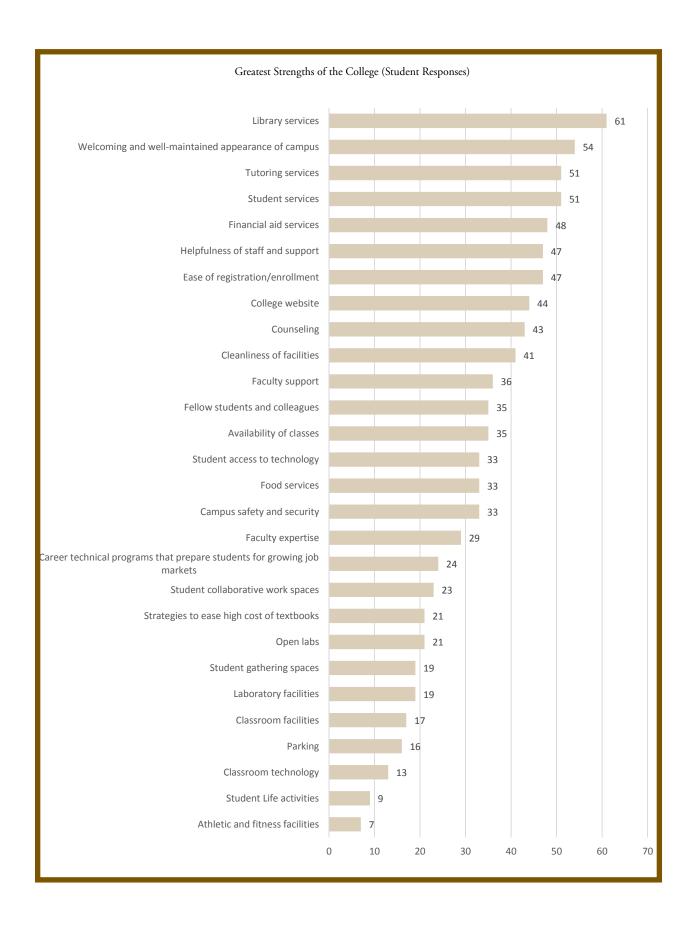


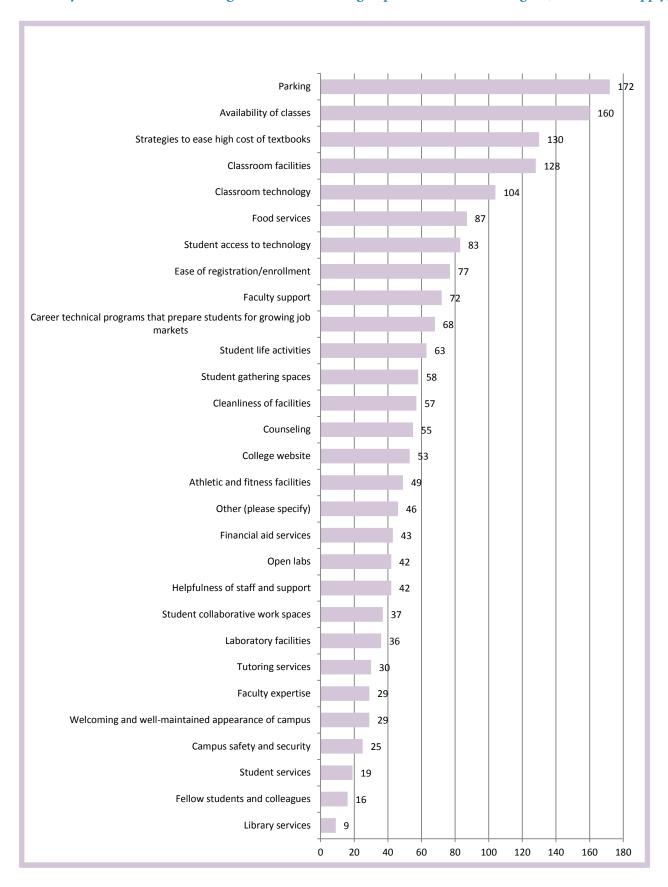
Please answer the following questions.

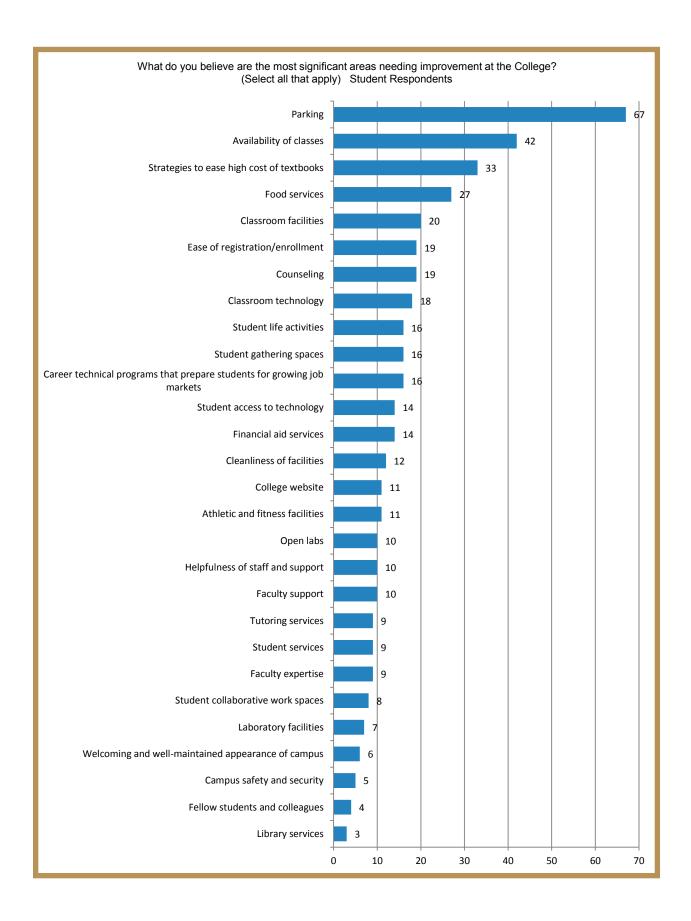


What do you believe are the greatest strengths of the College? (Select all that apply)

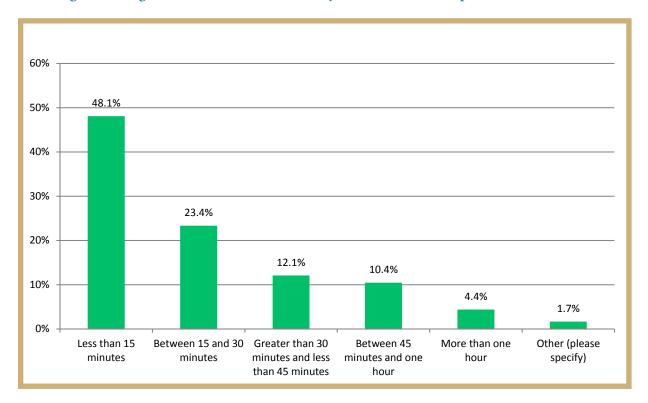




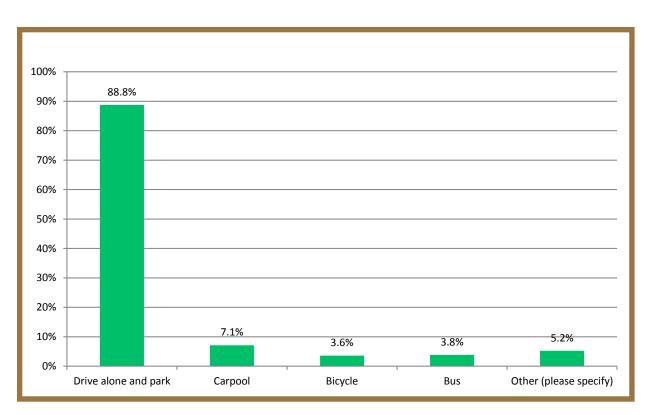




On average, how long does it take to commute from your home to the campus?



How do you most frequently get to campus? (Select all that apply)



Program	# Mentions	Program	# Mentions
Healthcare (lab tech, medical assistant, nuclear med.,	16	Global Studies	1
RN, LVN, phlebotomy, rad tech, respiratory therapy,			
sonography, surgical tech)			
American Sign Language (ASL)	12	Global Trade across disciplines	1
Dental Hygienist	9	Greek	1
Foreign Languages (esp. Asian, AAT, Japanese,	9	Group counseling workshops/courses	1
Chinese, Korean, German, noncredit)	0		
Ethnic Studies (e.g., Latino/Latin American/African	8	Guidance class besides going to a counselor, showing	1
American/Chicano/Asian) Computer Programming/Coding	6	all options, not just what they say to do. Gym Class for Cheer	1
Culinary Arts	6	Heavy Equipment Operator certificate	1
Music (composition, production, therapeutic	5	Herbalism	1
applications)		Terbaism	•
Paralegal	5	higher level courses - Chem, Math, Physics	1
Automotive (tech, body, mechanics, upholstery)	4	Home finances/budgeting	1
Math 4B, 6, 8 and online classes	4	Home Health Aide	1
Addiction Studies	3	Home improvement	1
Administration in Early Childhood Education	3	Horsemanship/Shoeing	1
Business (pre-law coursework, business calculus and	3	hospitality and tourism	1
statistics)		,	
Construction management	3	Infant Toddler Courses for 3 units	1
Cosmetology	3	Information Technologies - Additional fast track CTE	1
		certification	
Dental Assisting (RDA)	3	Instructional Design	1
Digital Art (in Los Banos, resources for equipment)	3	Inter-campus self sufficiency	1
Electrician/Plumbing/Carpenter/building	3	Interior Design	1
Foreign languages	3	Interpreter (Court, etc.)	1
Forklift Certification	3	Introduction to Technology (suggested course)	1
Pharmacy Technician	3	Irrigation	1
Physical Therapy Assistant	3	IT (Microsoft, etc.).	1
Radio/TV/Film	3	IT Security	1
Women's Studies	3	Journalism	1
Adobe programs - individual courses	2	Legal Secretary	1
Anthropology (anthro linguistics, anthro and gender)	2	Linguistics	1
AOM classes (online)	2	Logistics	1
Biotechnology	2	Mass communication/video production	1
Brewing/Viticulture Commercial Music	2 2	massage therapy	1
Cybersecurity/Computer networking	2	Medical Billing Specialist	1
Environmental Science and Technology	2	Medical Secretarial DataTransciptionist Mentor Program	1
Library Science	2	More courses/workshops preparing students for the	1
Library Science	2	workplace	1
ONLINE Classes that are transferrable	2	Native American Studies	1
Political Science (AAT)	2	Online Physical Education	1
Real Estate	2	Orchard management	1
Soccer Team	2	Organic Agriculture Practices	1
Solar Technology Career and Technical Education	2	Paramedic	1
Sports management	2	People skills	1
Truck Driving	2	Pest Control Advisor Programspecifically	1
Vet Tech	2	Philosophy of science	1
Video Production and Digital Media	2	Photography	1
Advanced coursework in Microsoft products	1	PreStats	1
Agriculture	1	Psych & Soc students, voluntary internships	1
Agriculture Law	1	Public Safety	1
Agriculture/environmental, more	1	Quad Activities with program reps, Weekly/Monthly	1
Aircraft Mechanic certificate.	1	Racial Understanding	1
American Studies	1	Real Estate Program - Filling it out would be great	1
Animal science program (more diverse species-wise)	1	Restaurant operation	1
ART Degree - More classes for a 2 or 4 year	1	Retail Management	1
Astronomy	1	Robotics/drone technology	1
Bible studies	1	School Nurse Services Credential	1

Program	# Mentions	Program	# Mentions
Bowling class	1	Scientific writing	1
California casino employment	1	Self-made business	1
Classes especially for deaf and hard of hearing	1	sewing/crafts	1
College for Kids in Los Banos	1	Sewing/manufacturing	1
Commercial Truck driving	1	Small animal breeding in agriculture science	1
Computer Numerical Control	1	Small Farmer Business	1
Conducting	1	Social Services	1
Criminal Psychology	1	Software Engineering (program, cert)	1
cross country	1	Spanish literature	1
Cross-Cultural Competency	1	Special Education for instructional aides/teachers	1
Cultural Arts	1	Speech and Language	1
Curriculum and Instruction	1	Sports psychology	1
Detective classes	1	Staff Development Programs	1
Disc golf class	1	Study Abroad	1
Discontinued Literature Classes	1	Sustainable Agriculture Alternatives	1
Distance Education programs, overall robust online	1	SWAT enforcement	1
Ecology	1	Trade jobs - more	1
Education courses	1	Turf grass management	1
Emerging technologies	1	VI Program	1
Engineering technology	1	Video Game Design	1
Entertainment & Arts Technology	1	Voc programs at the L.B. Campus- Weld, Cisco, CAD	1
Entrepreneurship	1	Vocational	1
Farm to Fork Agricultural Studies	1	Vocational Reading and Writing	1
FDA Culinary program	1	Vocational: Service industry/hospitality	1
Film	1	Web Technologies (program, certificate)	1
Fire Sciences	1	World ecology	1
Forensic Anthropology	1	Writing in Humanities	1
Forensics	1	Writing skills course - mandatory for students in social	1
		sciences, humanities	
Foster Parent Classes	1	Yoga	1
Geographic Information Systems	1		

Please list any student services programs or resources that are not currently offered at the College that you would like to see added. (Please include one program per line.)

The numbers in parentheses indicate how many times the program was mentioned.

Administrative assistant work-study program for ECE

Astronomy Club

Athletic support tutoring

Athletics in Los Banos

Bathrooms - clean

Better Counselors

Book loan program

Bookstore in Los Banos expanded

Cafeteria at Los Banos Campus (3)

Cafeteria, longer hours, better food (3)

California Promise

Car rentals provided by college

Child care accessibility for staff and nonqualifying students to pay out of pocket,

evening hours (3)

Child Care at Los Banos Campus (2)

City transit for Merced College students similar to UC Merced

Civil Engineering Tech

Clubs, more

College Assistance Migrant Program

Counseling or advising specialized in helping students at the transfer-level and in particular fields of study.

Counseling services, include areas of

specialization by discipline, or embedded (2)

Counseling, group

Counselor, Dedicated for CTE - district funded and supported

Cross Country team

Cross Cultural and Gender Center

CTE Counselor, embedded (2)

CTE Internship Coordinator...district funded and supported

Culinary

Cultural issues for foreign students

Dental Hygienist Develop school spirit

Distance Education support services, robust, online

Dump Taher food services E-textbooks, free copies

Facilities for CTE training to be expanded; Public safety training facility

Financial aid for students, increased Financial Aid information, online access

Fine and Performing Arts facilities (improved/new) for students and teaching

First semester inclusion activities

Follow-up services program, more robust to ensure student success

For disability people who need extra help

Freshmen experience

Full time nurse available at both campuses

Gym, free

Helping with a sick parent

Homestay help

Housing for students in Los Banos

Housing Resources (2) Housing, on campus

Housing, reserved for students

Intrusive counseling

Job resource center (better) benefiting not just the currently enrolled but graduates as well

Lighting on campus

Many new students are unaware of programs/resources

Math Lab meal plan

Meditation, Creative Mindfulness

Mental health services, more ON campus (2)

MEZA

Mini visits to classes (beginning of semester) to inform

students of programs/resources Multi-media Artist, Animator Music theory tutoring

Network Systems Tech

Office for multicultural student recourses

Office of International Education (for Study Abroad and

International Students)

Open computer laboratory
Open digital music laboratory

Parking, more Philosophy Club

Professional development for working with 'special needs' students

Professional Examination Services

Project Rebound (or service starts for formerly

incarcerated students)

Providing Laptops for all students Public safety training facility

Quiet places to study and eat at the same time

Radio Program for students Recreation Center for students Registration add code process Resources for single parents

Shortage of student access to open computers and printers

SI or tutoring available for all STEM courses.

Snacks for evening classes -- seriously, the students are

hungry Soccer teams

STEM center - dedicated for STEM

STEM counselor

STEM study and project room

Stress relief

Student instructor assistants (work study) for difficult

courses

Student orchestra

Student services expanded at Business Resource Center

Student services expanded at Los Banos campus

Support for older students
Support for part time students
Support services for older adults
Textbooks, Cost reduction

TRIO

TRIO Programs

Tutoring for all subjects offered

Tutoring Lab UMOJA

Upward Bound Programs VA Outreach, expand Vet care certificate Video Game Club

Walking path to the Los Banos campus

Work-study for students, more

Workability III

Please list any student activities or programs that are not currently offered at the College that you would like to see added. (Please include one program per line.)

Activities

Activities for Los Banos students (3)

Adventure Club

Aerobics for PE

Band with funding

Bible club

Bring your Parent/s to College Day - with a tour/

lunch

Build a megabit; include high school students

Carpool

Cheer team with funding

Child Development Club

Circle K

Clean bathrooms

Club involvement

Clubs for ethnic groups (Black Student Union,

Chicano Student Union, etc.)

Clubs, more (varied times for day/evening/weekend

students) (3)

Coffee shop gathering space for students

Community Clean Up Days

Cooking

Cultural clubs

Dance classes (2)

Daycare for students whenever classes are held

Develop a sense of belonging in students

Disc golf

Drone competition

Electronic sign on the corner of Yosemite and G

street to advertise what is going on at Merced

College

Fair

Festival of some sort other than Aggie Fest

Food choices outside of the Cafeteria.

Food fundraising for student clubs/groups, fewer

limitations

Food Services (e.g., food vendors like Fresno State)

(3)

Game Activity

Guitar Hero or Garage Band compaction

Gym hours that do not require a student to be

enrolled in a class

Homecoming week (2)

Housing Assistance for students (2)

In-reach to help first semester students transition

into community college

Internship fair

Intramural sports

Keyboarding courses

Lecture series (2)

Legal services

LGBT

Lunch time entertainment and speakers in the quad

Meal plan

More student activities

Movie Time

Music playing in the quad

Musical Theatre productions on a yearly basis

NAACP, College Chapter

Open swim

Outdoor events (band, movies, etc.)

Peer Support Groups by Age

Peer Support Groups for Single Parents

Professional development workshops

Radio telemarketing

Reinstate the open computer lab to reach more

students' needs

Scuba diving

Shooting club

Soccer (8)

Sports rallies

Student Activities Coordinator

Student housing

Student Mentors for New DSPS Students

study abroad

Team building activities

Tennis

Video Game Activity

Volleyball, men's (2)



"What we offer at MC, are diversity and extracurricular activities that inspire student involvement, leadership, and personal growth."

> Julius Sweet ASMC President

What do you think is the single most critical consideration for the College planning committee as it plans for success of the College and its students for the next 5-10 years?

The responses to this question

15-To-Finish (2)

Accelerated Programs (2)

Access (2) Accessibility Accreditation Articulation (2)

Athletics

Availability of Classes (10)

Basic Skills (3) Budget (6) Childcare Class Size Collaboration Communication (4)

Community

Continuing Education

Counseling (9) CTE (3) Culture (9)

Distance Education (5)
Dual Enrollment

Enrollment Management (8)

Expansion (4) Facilities (36)

Faculty

Financial aid (4)

Food (4) Funding (2) Guided Pathways (4)

Institutional Effectiveness (2) Job Training/Placement (6) Labor Market Data (3)

Los Banos (7) Orientation Outreach (3) Parking (5) Pedagogy Planning (3)

Professional Development (4)

Program Review Programs (4) Salaries (2) Scheduling (6) Security (3) Staffing (5) STEM

Student Centered (8)
Student Needs (2)
Student Retention (6)
Student Services
Student Success (10)
Sustainability (2)
Technology (22)
Textbooks

Transportation



External Environmental Scan

Student Enrollments by City of Residence

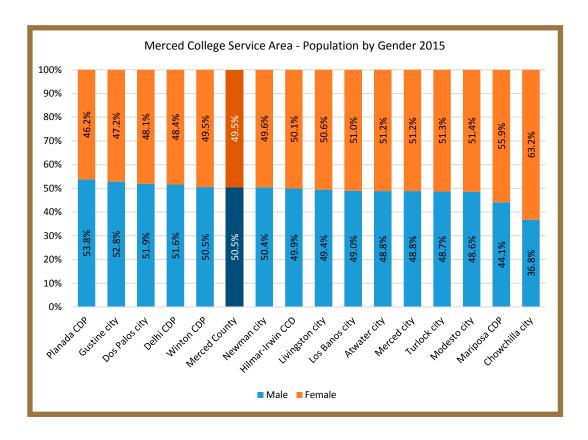
The following table shows student enrollments by city of residence for the past six fall semesters. The table includes all cities with 20 or more enrolled students. The list includes 91% of student enrollments for the fall 2017 semester. The last column shows the percentage change over the time period.

	Μe	erced College	- Enrollments	by City of Ro	esidence		
City	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	% Change
Merced	4,141	4,210	4,009	3,987	3,999	3,964	-4%
Atwater	1,220	1,204	1,230	1,318	1,383	1,332	9%
Los Banos	1,059	1,011	1,047	1,174	1,228	1,258	19%
Turlock	583	595	610	580	583	523	-10%
Livingston	484	504	476	465	506	497	3%
Winton	371	356	402	394	422	386	4%
Chowchilla	195	209	235	252	360	384	97%
Delhi	254	259	281	290	258	253	0%
Dos Palos	239	223	208	236	233	228	-5%
Planada	188	157	164	164	172	175	-7%
Modesto	110	125	156	141	154	157	43%
Gustine	144	158	147	161	142	125	-13%
Hilmar	129	112	105	114	117	120	-7%
Newman	100	128	111	121	117	105	5%
Mariposa	130	115	103	97	111	100	-23%
Le Grand	98	87	80	98	98	90	-8%
Ceres	57	57	60	51	66	78	37%
Madera	63	57	54	51	63	73	16%
Denair	54	59	58	53	66	61	13%
Hughson	35	36	43	44	52	40	14%
Stevinson	33	32	28	33	37	38	15%
Patterson	30	33	38	37	38	29	-3%
Fresno	58	57	49	36	24	28	-52%
El Nido	22	15	27	23	22	24	9%
Ballico	15	14	13	21	19	23	53%
Waterford	23	24	23	35	22	23	0%
Oakdale	9	5	12	13	13	20	122%
389 Other Cities	537	516	522	475	471	477	-11%
Total	10,381	10,358	10,291	10,464	10,776	10,611	2%
		,, a, ,,					

Source: California Community Colleges Chancellor's Office Data Mart

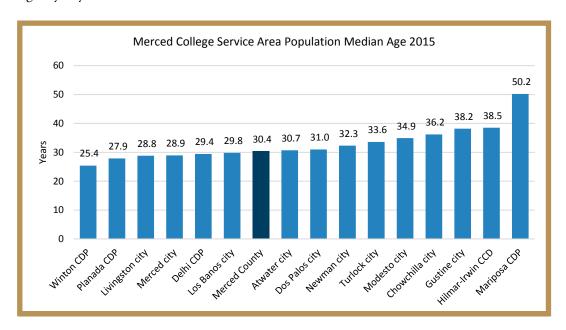
Population by Gender

Most of the cities and towns in the College's service area have a majority of female inhabitants. The most dramatic is Chowchilla, which might be due to the presence of the women's prison there.

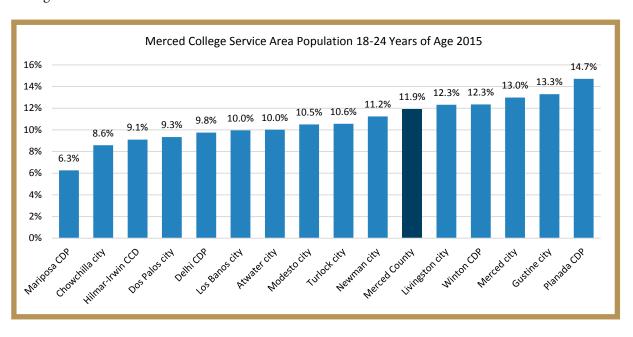


Population by Age

The median age of the population in 2015 in Merced County was 30.4 years of age. The chart shows the median ages by city/town.



In Merced County in 2015, 11.9% of the population was between the ages of 18 and 24. The chart shows the percentages for each of the service area cities and towns.



Population by Race and Ethnicity

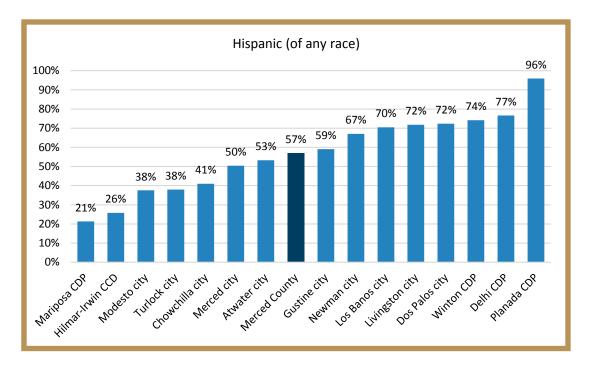
	N	Merced College	e Service Area	- Population	by Race and I	Ethnicity 2015	5	
Area	White	African American	Amer. Indian & Alaska Native	Asian	Pacific Islander	Some other race	Two or more races	Hispanic (of any race)*
Merced County	61%	3%	1%	8%	0%	23%	4%	57%
Hilmar-Irwin CCD	86%	0%	0%	1%	0%	10%	4%	26%
Atwater city	60%	4%	1%	5%	0%	25%	5%	53%
Chowchilla city	66%	12%	2%	3%	1%	12%	4%	41%
Delhi CDP	53%	3%	0%	3%	1%	37%	4%	77%
Dos Palos city	72%	2%	2%	1%	0%	17%	7%	72%
Gustine city	87%	0%	0%	1%	0%	8%	3%	59%
Livingston city	34%	1%	0%	21%	0%	42%	1%	72%
Los Banos city	76%	2%	1%	3%	0%	14%	4%	70%
Mariposa CDP	69%	3%	24%	0%	0%	2%	3%	21%
Merced city	53%	5%	1%	12%	0%	23%	5%	50%
Modesto city	73%	4%	1%	7%	1%	10%	5%	38%
Newman city	84%	2%	0%	2%	0%	10%	2%	67%
Planada CDP	66%	2%	0%	1%	0%	30%	2%	96%
Turlock city	80%	2%	1%	6%	1%	6%	4%	38%
Winton CDP	41%	3%	1%	5%	1%	44%	5%	74%
Total	68%	4%	1%	7%	1%	15%	4%	47%

Source: U.S. Census Bureau, "American Fact Finder", generated by CBT, http://factfinder2.census.gov downloaded on October 16, 2017

^{*} The U.S. Census considers "Hispanic" an origin, not a race. Therefore, people who identify as Hispanic on the Census, may be of any race(s). As a result, the Hispanic percentage of the population must be looked at separately from the race and ethnicity percentages.

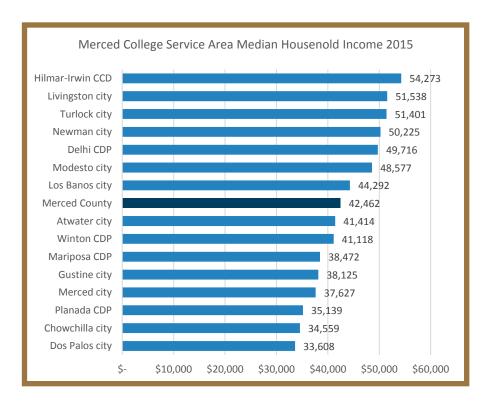
Hispanic Population

The population of Merced County is 57% Hispanic. The following chart shows the percentages for each of the service area cities and towns.



Household Income

The median household income in Merced County in 2015 was \$42,462. The chart shows the levels of median household income in the service area cities and towns.



Educational Attainment

The following table shows the maximum educational attainment for population 25 years of age and older for each of the service area cities.

Merc	ed College Serv	ice Area Maxim	um Educational A	ttainment (Pop	oulation 25+ yea	ars of age) 2015	
City	Less than 9th grade	9th to 12th grade, no diploma	High school graduate (includes equivalency)	Some college, no degree	Associate's degree	Bachelor's degree	Graduate or professional degree
Atwater city	16.6%	10.9%	25.9%	24.9%	8.4%	9.1%	4.2%
Chowchilla city	12.3%	19.4%	29.7%	23.3%	6.7%	6.2%	2.3%
Delhi CDP	33.1%	11.4%	23.2%	17.7%	7.7%	5.3%	1.6%
Dos Palos city	21.9%	15.2%	32.9%	17.0%	4.7%	6.3%	1.9%
Gustine city	30.6%	5.8%	26.5%	25.7%	1.5%	5.2%	4.7%
Hilmar-Irwin CCD	20.0%	10.2%	27.9%	24.9%	5.8%	6.6%	4.6%
Livingston city	33.0%	15.2%	19.1%	14.8%	7.3%	7.8%	2.8%
Los Banos city	20.0%	13.2%	27.6%	22.1%	6.5%	7.9%	2.7%
Mariposa CDP	4.5%	17.5%	24.5%	26.0%	13.0%	7.2%	7.3%
Merced city	14.6%	10.9%	23.4%	24.4%	9.8%	10.4%	6.5%
Merced County	20.4%	11.7%	24.8%	22.5%	7.5%	8.7%	4.4%
Modesto city	9.5%	9.3%	27.5%	27.0%	8.1%	12.1%	6.5%
Newman city	15.3%	8.7%	33.2%	25.5%	6.0%	9.9%	1.4%
Planada CDP	49.2%	7.9%	16.7%	13.4%	4.1%	6.2%	2.6%
Turlock city	10.6%	8.2%	27.3%	23.3%	7.2%	15.2%	8.3%
Winton CDP	29.6%	18.6%	25.5%	14.1%	6.0%	4.6%	1.6%

Source: U.S. Census Bureau, "American Fact Finder", generated by CBT, http://factfinder2.census.gov downloaded on October 16, 2017

"Merced College empowers students to achieve their academic goals and it changes peoples' lives for the positive, which has a good impact on our community."

> Pablo Gutierrez Merced College Alumnus



Feeder High Schools

The following table shows the numbers of students enrolling in Merced College from each of the area high schools. The final column shows the percent change over the 6 years.

	Merce	d College En	rollments by I	Feeder High S	chool		
High School	Fall 2012	Fall 2013	Fall 2014	Fall 2015	Fall 2016	Fall 2017	% Change
Buhach Colony	133	156	152	142	174	183	+38%
El Capitan	-	-	-	-	103	170	-
Golden Valley	182	182	173	176	152	168	-8%
Merced	241	233	232	263	178	162	-33%
Atwater	174	130	142	157	168	156	-10%
Los Banos	142	81	74	72	105	122	-14%
Pacheco	-	93	99	106	96	100	-
Livingston	97	97	76	75	93	97	+0%
Chowchilla	41	39	49	41	41	77	+88%
Turlock	68	58	48	26	59	65	-4%
Le Grand	39	48	55	33	51	48	+23%
Dos Palos	52	35	49	39	40	40	-23%
Hilmar	35	33	23	30	39	37	+6%
Gustine	36	18	7	29	16	36	+0%
Mariposa County	17	25	12	15	29	30	+76%
Pitman	49	31	31	20	30	29	-41%
Yosemite	37	36	33	19	28	29	-22%
Delhi	19	42	38	36	26	23	+21%
Denair	9	9	10	12	8	13	+44%
San Luis	10	14	5	8	14	10	+0%
Stone Ridge Christian	3	9	7	11	5	10	+233%
Orestimba	16	21	9	15	13	7	-56%
Independence	6	5	2	-	-	3	-50%
Total	1,406	1,395	1,326	1,325	1,468	1,615	+15%
Source: Merced College O	ffice of Institui	tional Research					

Internal and External Stakeholder Sessions

Following data gathered from the internal and external scans, further qualitative data was gathered from both internal and external stakeholders of Merced College. Internal stakeholder interviews, listening sessions, and dialogue sessions were held with faculty, staff, and students at the College, both at the Merced campus and in Los Banos. Campus forums, conducted also at both sites, were well attended and included faculty, staff, students, and community members. Additionally, interviews and listening sessions were held with external constituents, including K-12 and university partners, government agencies, economic and workforce development representatives, and business and industry partners. Key themes that emerged from these sessions were included in identifying planning assumptions and for the goal-setting process in Phase Three.



LABOR MARKET ANALYSIS

Overview

Earnings increase dramatically for students who complete an Associate's Degree at a California community college. According to the California Community Colleges, Chancellor's Office (SalarySurfer.ccco.edu), students who complete an associate degree more than double their annual pre-degree earnings after two years in the workforce. Their earnings triple after five years in the workforce. Nearly half (48%) of students who graduated with an associate degree earned \$56,000 or more annually five years after graduating.

Earnings also increase significantly for students who complete a certificate. California community college students who complete a certificate nearly double their pre-degree earnings after five years in the workforce. Statewide, 44% of students who graduated with a certificate earned \$56,000 or more annually five years after graduating.

Labor Market Data

The following data were taken from a regional labor market study that was conducted by the Centers of Excellence in April 2017¹.



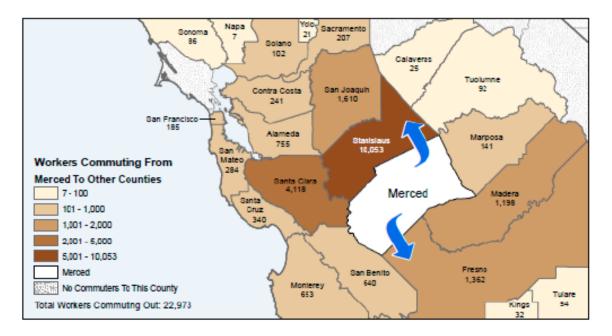
"We prepare society-ready graduates trained to enter the workforce with the skills and abilities that meet the needs of local employers."

> Dr. Mike McCandless VP of Student Services

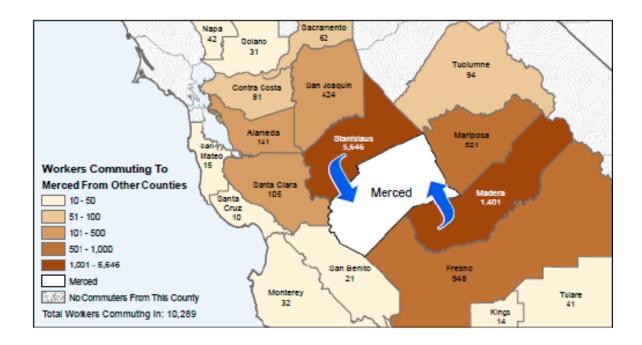
¹ Centers of Excellence, http://coeccc.net.

Commuting Patterns

The numbers on the map show how many people commute from Merced County to that county. More than 10,000 people commute from Merced County to Stanislaus County. More than 4,000 people commute from Merced County to Santa Clara County.



The numbers on this map show how many people commute from the given county to Merced County for work. The largest number of workers (5,646) commute from Stanislaus County.



Industry Employment

The following tables show the industries with the most jobs in Merced and Santa Clara Counties.

Industry	2016 Jobs	2021 Jobs	5-Yr Change	5-Yr % Change
Elementary and Secondary Schools (Local Government)	8,393	8,796	403	5%
Crop Production	6,104	6,672	568	9%
Local Government, Excluding Education and Hospitals	3,993	3,936	(57)	(1%)
Animal Production and Aquaculture	3,780	3,730	(50)	(1%)
Farm Labor Contractors and Crew Leaders	3,365	3,867	502	15%
Colleges, Universities, and Professional Schools (State Government)	3,300	4,727	1,427	43%
Limited-Service Restaurants	2,743	2,994	251	9%
Services for the Elderly and Persons with Disabilities	2,441	3,625	1,184	49%
Poultry Processing	2,227	2,177	(50)	(2%)
Full-Service Restaurants	1,409	1,464	55	4%
General Medical and Surgical Hospitals	1,363	1,327	(36)	(3%)
Supermarkets and Other Grocery (except Convenience) Stores	1,322	1,253	(69)	(5%)

Industry	2016 Jobs	2021 Jobs	5-Yr Change	5-Yr % Change
Elementary and Secondary Schools (Local Government)	14,757	15,725	968	7%
Local Government, Excluding Education and Hospitals	8,643	9,157	514	6%
Limited-Service Restaurants	7,186	7,975	789	11%
General Medical and Surgical Hospitals	6,293	6,424	131	2%
Full-Service Restaurants	5,961	6,528	567	10%
Services for the Elderly and Persons with Disabilities	5,661	8,222	2,561	45%
Crop Production	5,581	5,936	355	6%
Farm Labor Contractors and Crew Leaders	3,867	3,745	(122)	(3%)
Animal Production and Aquaculture	3,821	3,784	(37)	(1%)
Supermarkets and Other Grocery (except Convenience) Stores	3,588	3,506	(82)	(2%)
Offices of Physicians (except Mental Health Specialists)	3,432	3,767	335	10%
Wineries	3,369	3,755	386	11%

Job Postings

The following tables show the jobs with the most postings in Merced and Santa Clara Counties.

SOC Code	Occupation	Job Postings
29-1141.00	Registered Nurses	868
53-3032.00	Heavy and Tractor-Trailer Truck Drivers	761
41-1011.00	First-Line Supervisors of Retail Sales Workers	221
41-4012.00	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	219
29-1071.00	Physician Assistants	138
25-9041.00	Teacher Assistants	137
35-1012.00	First-Line Supervisors of Food Preparation and Serving Workers	129
43-4051.00	Customer Service Representatives	122
49-9071.00	Maintenance and Repair Workers, General	117
11-9199.00	Managers, All Other	114

SOC Code	Occupation	Job Postings
15-1132.00	Software Developers, Applications	26,935
29-1141.00	Registered Nurses	9,566
41-4012.00	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	8,001
11-9199.00	Managers, All Other	7,196
15-1134.00	Web Developers	5,189
41-1011.00	First-Line Supervisors of Retail Sales Workers	4,010
43-6014.00	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	3,814
11-2022.00	Sales Managers	3,661
43-4051.00	Customer Service Representatives	3,048
15-1121.00	Computer Systems Analysts	2,754

In-Demand Certifications

The following tables show the certifications that are the most in-demand in Merced and Santa Clara Counties.

Certifications	Job Postings	% of Postings	% of Postings Specifying Certifications
REGISTERED NURSE	803	8%	30%
CDL CLASS A	436	4%	16%
FIRST AID CPR AED	297	3%	11%
CA LICENSE	114	1%	4%
NURSE PRACTITIONER	109	1%	4%
COMMERCIAL DRIVER'S LICENSE	101	1%	4%
ADVANCED CARDIAC LIFE SUPPORT (ACLS) CERTIFICATION	100	1%	4%
BOARD CERTIFIED/BOARD ELIGIBLE	93	1%	3%
LICENSED VOCATIONAL NURSE (LVN)	81	1%	3%
CRITICAL CARE REGISTERED NURSE (CCRN)	78	1%	3%

Certifications	Job % of Postings Posting		% of Postings Specifying Certifications
REGISTERED NURSE	9,273	3%	22%
FIRST AID CPR AED	3,100	1%	7%
CERTIFIED PUBLIC ACCOUNTANT (CPA)	2,674	1%	6%
PROJECT MANAGEMENT CERTIFICATION (E.G. PMP)	2,364	1%	6%
SECURITY CLEARANCE	1,728	1%	4%
BASIC CARDIAC LIFE SUPPORT CERTIFICATION	1,660	1%	4%
NURSE PRACTITIONER	1,441	1%	3%
REAL ESTATE CERTIFICATION	1,333	0%	3%
CDL CLASS A	1,141	0%	3%
COMMERCIAL DRIVER'S LICENSE	1,040	0%	2%

Occupations with the most Projected Growth

Merced County

- Registered nurses
- Nursing assistants
- Medical assistants
- Licensed practical and licensed vocational nurses
- Packaging and filling machine operators and tenders
- Agricultural equipment operators
- Industrial truck and tractor operators
- Graders and sorters (agricultural products)
- Life, physical, and social science technicians, all other (which includes precision agriculture jobs)

Santa Clara County

- Computer user support specialists
- Network and computer system administrators
- Web developers
- Secretaries and administrative assistants
- First-line supervisors of office and administrative support workers
- Business operations specialists
- Office and administrative support workers
- Bookkeeping, accounting and auditing clerks

Employer Demands

Merced County

- Exceeding Employer Demands
 - o Health Cluster
 - Agriculture Cluster
- Employer Demand Not Being Met
 - Food processing
 - Automotive technology
 - o Childhood development/early care
 - Education
 - o Culinary arts
 - Restaurant and food services management
 - o Management development and supervision
 - Office technology/office computer applications
 - Customer service
 - Consumer services
 - o Industrial systems technology and maintenance

Santa Clara County

- Exceeding Employer Demands
 - o None
- Employer Demand Not Being Met
 - Registered nurses
 - Home health aides
 - Sales and salesmanship
 - o Computer information systems or computer support
 - Office technology/office computer applications
 - o Child development/early care
 - Education
 - o Culinary arts
 - Hospitality
 - Restaurant and food services management



Approximately 88% of completer and skills-building students at Merced College reported they were either very satisfied or satisfied with the education and training they received.

CTE Employement Outcomes Survey (2017)

Target Occupations Criteria

This section of the plan provides an analysis of the labor market in the College's region. The data was obtained from the Centers of Excellence, a grant-funded technical assistance provider to California community colleges.

The goal of this analysis is to identify occupations in the College's geographical area that offer high-wages and require some training that the College can provide. Once the "target occupations" have been identified, the analysis will include a gap analysis between these occupations and educational completions. This analysis will help the College make decisions regarding adding new programs and expending or retooling existing programs. The methodology used in this analysis is described below.

- 1. Define "target occupations" criteria
- 2. Extract a list of target occupations
- 3. Perform a crosswalk analysis to identify educational programs
- 4. Cross-reference this list with College completions
- 5. Identify programs for further analysis
 - a. For addition or expansion
 - b. For retooling or elimination

To identify the "target occupations" it is necessary to develop four critical criteria. These include:

- Region to be analyzed
- Typical entry level education
- Number of annual openings
- Median hourly earnings.

The region to be analyzed should include the local area as well as surrounding areas where students would likely be willing to relocate, should they find a good job. In the case of Merced College, two separate regions will be analyzed. The first region is the Northern Central Valley Region (Merced, San Joaquin and Stanislaus Counties). The second region to be analyzed is Santa Clara County. This analysis is included due to the high numbers of people who commute to work in Santa Clara County but reside in Merced County.

Northern Central Valley

There are 546 occupations listed in the data for the three-county region (Merced, San Joaquin and Stanislaus Counties).

Next, a minimum value needs to be selected for the number of annual openings. The list should not contain occupations for which there are very few annual openings. For this analysis, the minimum number of annual openings was set at 20. This narrowed the list, reducing it to 216 occupations.

The next criterion concerns median hourly earnings. The purpose is to identify high-wage jobs. Most occupations offer a lower wage for a worker who lacks much relevant work experience. Higher wages then follow with increased experience or education level. Therefore, for this analysis, the minimum value for "Median Hourly Earnings" was set to \$14.00 per hour. This further reduced the list of occupations to 159 occupations.



The final criterion is, "typical entry level education". For this, the planning team used Associate's Degree or less (middle skill or lower). This list includes 99 occupations. The typical entry-level education categories included are:

- Associate's Degree
- Postsecondary non-degree award
- Some college, no degree
- High School Diploma or equivalent
- No formal educational credential

Bachelor's Degree Occupations

Occupations that typically require a Bachelor's Degree (and meet the other criteria) will be reported in a separate table. Occupations that typically require a Bachelor's Degree are included because community colleges can, for transfer students, provide the first two years of a Bachelor's Degree pathway. There are 60 occupations in this list.

Target Occupations (Middle-Skill² or less)

The following table shows the list of target occupations.

	Ed Level SOC	Description	2016 Jobs	2021 Jobs	Annual Openings	Median Hourly Earnings
A:	ssociate's De	egree				
	19-4099	Life, Physical, and Social Science Technicians, All Other	350	370	21	\$21.22
	23-2011	Paralegals and Legal Assistants	983	974	23	\$23.44
	25-2011	Preschool Teachers, Except Special Education	1,941	1,894	67	\$15.28
	29-2012	Medical and Clinical Laboratory Technicians	381	417	21	\$20.59
	29-2021	Dental Hygienists	625	669	25	\$42.51
	29-2034	Radiologic Technologists	507	539	21	\$38.20
	29-2056	Veterinary Technologists and Technicians	362	407	21	\$16.43
P	ostsecondary	non-degree award				
	25-4031	Library Technicians	364	389	27	\$16.83
	29-2041	Emergency Medical Technicians and Paramedics	650	715	38	\$17.16
	29-2061	Licensed Practical and Licensed Vocational Nurses	2,104	2,320	137	\$24.56
	29-2071	Medical Records and Health Information Technicians	572	619	29	\$19.59
	31-9091	Dental Assistants	1,559	1,650	70	\$15.26
	31-9092	Medical Assistants	3,386	3,670	170	\$14.45
	31-9097	Phlebotomists	553	600	28	\$18.96
	33-2011	Firefighters	977	1,020	44	\$26.62
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	623	661	23	\$23.72
	49-3023	Automotive Service Technicians and Mechanics	2,456	2,547	106	\$16.75
	49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	942	1,029	46	\$20.03
	53-3032	Heavy and Tractor-Trailer Truck Drivers	13,103	13,901	505	\$18.14
So	ome college,	no degree				
	15-1151	Computer User Support Specialists	1,122	1,205	43	\$22.09
	25-9041	Teacher Assistants	6,260	6,679	300	\$15.38
	43-3031	Bookkeeping, Accounting, and Auditing Clerks	5,405	5,446	80	\$17.34

²Middle-skill jobs, here, are defined as those jobs typically requiring an Associate's Degree or less as the entry-level educational requirement.

Ed Level SOC	Description	2016 Jobs	2021 Jobs	Annual Openings	Median Hourly Earnings
High school d	iploma or equivalent				
11-3071	Transportation, Storage, and Distribution Managers	607	652	30	\$40.90
11-9013	Farmers, Ranchers, and Other Agricultural Managers	5,296	5,058	89	\$20.59
11-9051	Food Service Managers	1,524	1,644	72	\$16.37
11-9141	Property, Real Estate, and Community Association Managers	931	934	27	\$21.13
21-1093	Social and Human Service Assistants	1,546	1,718	92	\$17.76
25-3021	Self-Enrichment Education Teachers	1,158	1,223	50	\$17.00
29-2052	Pharmacy Technicians	1,433	1,572	62	\$17.49
29-2081	Opticians, Dispensing	314	348	20	\$18.05
29-2099	Health Technologists and Technicians, All Other	557	612	26	\$20.00
33-3012	Correctional Officers and Jailers	2,140	2,212	84	\$31.02
33-3051	Police and Sheriff's Patrol Officers	1,788	1,872	89	\$36.46
33-9099	Protective Service Workers, All Other	731	776	26	\$15.26
35-1012	First-Line Supervisors of Food Preparation and Serving Workers	2,912	3,265	213	\$14.30
37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	784	828	28	\$18.17
39-1021	First-Line Supervisors of Personal Service Workers	603	668	36	\$16.52
39-9031	Fitness Trainers and Aerobics Instructors	1,055	1,150	54	\$16.56
41-1011	First-Line Supervisors of Retail Sales Workers	5,268	5,508	225	\$16.76
41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,079	1,089	26	\$21.64
41-3021	Insurance Sales Agents	1,345	1,423	73	\$23.02
41-3099	Sales Representatives, Services, All Other	2,369	2,492	94	\$18.85
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	3,466	3,806	198	\$26.58
43-1011	First-Line Supervisors of Office and Administrative Support Workers	4,941	5,195	163	\$24.38
43-3011	Bill and Account Collectors	1,164	1,126	29	\$15.70
43-3021	Billing and Posting Clerks	2,198	2,334	93	\$15.28
43-3051	Payroll and Timekeeping Clerks	921	931	29	\$19.46
43-4051	Customer Service Representatives	4,848	5,178	236	\$16.64
43-4111	Interviewers, Except Eligibility and Loan	636	668	26	\$16.88
43-4151	Order Clerks	642	682	32	\$16.80
43-4199	Information and Record Clerks, All Other	734	765	30	\$19.36
43-5032	Dispatchers, Except Police, Fire, and Ambulance	946	1,005	44	\$18.93
43-5052	Postal Service Mail Carriers	1,060	1,033	23	\$28.30
43-5061	Production, Planning, and Expediting Clerks	850	902	42	\$23.36
43-5071	Shipping, Receiving, and Traffic Clerks	3,976	4,197	166	\$15.27
43-6011	Executive Secretaries and Executive Administrative Assistants	1,666	1,694	29	\$25.02
43-6013	Medical Secretaries	2,234	2,411	84	\$15.64
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	7,228	7,627	214	\$16.90
43-9041	Insurance Claims and Policy Processing Clerks	895	869	28	\$18.66
43-9061 45-1011	Office Clerks, General First-Line Supervisors of Farming, Fishing, and Forestry	9,802 1,158	10,342	401 31	\$15.20 \$14.93
47-1011	Workers First-Line Supervisors of Construction Trades and Extraction	1,600	1,641	47	\$26.55
47-2021	Workers Brick masons and Block masons	280	332	27	\$20.61
47-2031	Carpenters	3,393	3,470	105	\$19.70
47-2073	Operating Engineers and Other Construction Equipment Operators	1,021	1,070	38	\$24.45
47-2111	Electricians	1,748	1,808	59	\$25.22
47-2152	Plumbers, Pipefitters, and Steamfitters	1,213	1,313	54	\$20.85
47-2211	Sheet Metal Workers	477	495	21	\$20.94
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1,508	1,587	58	\$31.62
49-3021	Automotive Body and Related Repairers	631	649	22	\$19.47
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,300	1,380	50	\$20.36
	U 1				

	Ed Level SOC	Description	2016 Jobs	2021 Jobs	Annual Openings	Median Hourly Earnings
	49-9041	Industrial Machinery Mechanics	1,708	1,872	103	\$25.91
	49-9043	Maintenance Workers, Machinery	551	586	21	\$18.28
	49-9071	Maintenance and Repair Workers, General	5,106	5,400	239	\$20.06
	49-9099	Installation, Maintenance, and Repair Workers, All Other	813	839	23	\$15.73
	51-1011	First-Line Supervisors of Production and Operating Workers	2,467	2,540	65	\$24.47
	51-3092	Food Batch-makers	1,122	1,208	57	\$15.28
	51-4041	Machinists	849	880	38	\$19.01
	51-4121	Welders, Cutters, Solderers, and Brazers	1,649	1,649	60	\$18.16
	51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	966	1,042	58	\$18.76
	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	912	961	37	\$14.77
	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2,087	2,163	80	\$17.90
	51-9111	Packaging and Filling Machine Operators and Tenders	5,480	5,782	305	\$14.86
	51-9196	Paper Goods Machine Setters, Operators, and Tenders	751	806	30	\$14.25
	53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	1,120	1,217	72	\$24.85
	53-1031	First-Line Supervisors of Transportation and Material- Moving Machine and Vehicle Operators	887	957	54	\$25.63
	53-3021	Bus Drivers, Transit and Intercity	557	599	25	\$20.50
	53-3022	Bus Drivers, School or Special Client	1,499	1,653	73	\$15.90
	53-3033	Light Truck or Delivery Services Drivers	3,960	4,174	147	\$15.62
N	o formal edu	icational credential				
	35-2012	Cooks, Institution and Cafeteria	1,295	1,384	66	\$14.65
	47-2051	Cement Masons and Concrete Finishers	651	624	29	\$17.34
	47-2061	Construction Laborers	3,778	3,999	172	\$14.77
	47-2141	Painters, Construction and Maintenance	1,612	1,668	55	\$16.35
	47-2181	Roofers	602	612	32	\$19.46
	51-3021	Butchers and Meat Cutters	1,018	1,029	26	\$14.29
	53-7051	Industrial Truck and Tractor Operators	5,564	6,007	298	\$19.10
	53-7063	Machine Feeders and Off-bearers	723	782	37	\$17.00
	53-7081	Refuse and Recyclable Material Collectors	598	628	28	\$19.22
	55-9999	Military occupations	2,480	2,445	59	\$16.42

Gap Analysis

The gap analysis identifies gaps between the high-wage, middle-skill jobs in the region, and the programs offered at the College. The first section looks at the target occupations first, and compares them to the programs offered at the College. The second section starts with the programs offered at the college and identifies those that train students for jobs that are not on the target occupation list.

Occupation Analysis

The following table shows the same 99 target occupations reorganized. The occupations are grouped by the type of degrees, certificates or courses that the college currently offers. For example, the first section shows the occupations for which the College offers degree and certificate options, followed by occupations for which the College offers only degree options.

	Gap Analysis - Target Occupations Requiring an Associate's Degree or Less – Merced, San Joaquin and Stanislaus Counties							
						Med Hourly		
	SOC	Description	2015	2018	Annual	Earnings	Typical Entry Level Education	
D	() 10	20 . ()	Occupations	Occupations	Openings			
Deg	ree(s) and Cer 11-9013		5 206	5 050	89	¢20.50	UC diploma ou conjuntant	
		Farmers, Ranchers, and Other Agricultural Managers	5,296	5,058		\$20.59	HS diploma or equivalent	
	11-9051	Food Service Managers	1,524	1,644	72	\$16.37	HS diploma or equivalent	
	15-1151	Computer User Support Specialists	1,122	1,205	43	\$22.09	Some college, no degree	
	25-9041	Teacher Assistants	6,260	6,679	300	\$15.38	Some college, no degree	
	29-2034	Radiologic Technologists	507	539	21	\$38.20	Associate degree	
	29-2041	Emergency Medical Technicians and Paramedics	650	715	38	\$17.16	Postsecondary non-degree award	
	29-2056	Veterinary Technologists and Technicians	362	407	21	\$16.43	Associate degree	
	29-2061	Licensed Practical and Licensed Vocational Nurses	2,104	2,320	137	\$24.56	Postsecondary non-degree award	
	31-9092	Medical Assistants	3,386	3,670	170	\$14.45	Postsecondary non-degree award	
	31-9097	Phlebotomists	553	600	28	\$18.96	Postsecondary non-degree award	
	33-2011	Firefighters	977	1,020	44	\$26.62	Postsecondary non-degree award	
	33-3012	Correctional Officers and Jailers	2,140	2,212	84	\$31.02	HS diploma or equivalent	
	33-3051	Police and Sheriff's Patrol Officers	1,788	1,872	89	\$36.46	HS diploma or equivalent	
	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	2,912	3,265	213	\$14.30	HS diploma or equivalent	
	35-2012	Cooks, Institution and Cafeteria	1,295	1,384	66	\$14.65	No formal educational credential	
	39-9031	Fitness Trainers and Aerobics Instructors	1,055	1,150	54	\$16.56	HS diploma or equivalent	
	43-1011	First-Line Supervisors of Office and Administrative Support Workers	4,941	5,195	163	\$24.38	HS diploma or equivalent	
	43-3031	Bookkeeping, Accounting, and Auditing Clerks	5,405	5,446	80	\$17.34	Some college, no degree	
	43-6011	Executive Secretaries and Executive Administrative Assistants	1,666	1,694	29	\$25.02	HS diploma or equivalent	
	43-6013	Medical Secretaries	2,234	2,411	84	\$15.64	HS diploma or equivalent	
	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	7,228	7,627	214	\$16.90	HS diploma or equivalent	
	43-9061	Office Clerks, General	9,802	10,342	401	\$15.20	HS diploma or equivalent	
	45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	1,158	1,153	31	\$14.93	HS diploma or equivalent	
	47-2111	Electricians	1,748	1,808	59	\$25.22	HS diploma or equivalent	
	47-2211	Sheet Metal Workers	477	495	21	\$20.94	HS diploma or equivalent	
	49-3021	Automotive Body and Related Repairers	631	649	22	\$19.47	HS diploma or equivalent	
	49-3023	Automotive Service Technicians and Mechanics	2,456	2,547	106	\$16.75	Postsecondary non-degree award	
	49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,300	1,380	50	\$20.36	HS diploma or equivalent	
	49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	942	1,029	46	\$20.03	Postsecondary non-degree award	
	49-9041	Industrial Machinery Mechanics	1,708	1,872	103	\$25.91	HS diploma or equivalent	
	49-9043	Maintenance Workers, Machinery	551	586	21	\$18.28	HS diploma or equivalent	
	49-9071	Maintenance and Repair Workers, General	5,106	5,400	239	\$20.06	HS diploma or equivalent	

	Gap	Analysis - Target Occupations Requiring an A	ssociate's Degre	ee or Less – M	erced, San J	loaquin and	Stanislaus Counties
Γ	SOC	Description	2015	2018	Annual	Med Hourly Earnings	Typical Entry Level Education
		·	Occupations	Occupations	Openings		
	51-4121	Welders, Cutters, Solderers, and Brazers	1,649	1,649	60	\$18.16	HS diploma or equivalent
Deg	gree(s) only						
	19-4099	Life, Physical, and Social Science Technicians, All Other	350	370	21	\$21.22	Associate degree
	21-1093	Social and Human Service Assistants	1,546	1,718	92	\$17.76	HS diploma or equivalent
	25-2011	Preschool Teachers, Except Special Education	1,941	1,894	67	\$15.28	Associate degree
Cer	tificate(s)	D D D D	001	00/	25	\$21.12	TTO 1: 1
	11-9141	Property, Real Estate, and Community Association Managers	931	934	27	\$21.13	HS diploma or equivalent
	29-2071	Medical Records and Health Information Technicians	572	619	29	\$19.59	Postsecondary non-degree award
	41-1011	First-Line Supervisors of Retail Sales Workers	5,268	5,508	225	\$16.76	HS diploma or equivalent
	41-1012	First-Line Supervisors of Non-Retail Sales Workers	1,079	1,089	26	\$21.64	HS diploma or equivalent
	43-4051	Customer Service Representatives	4,848	5,178	236	\$16.64	HS diploma or equivalent
	43-4199	Information and Record Clerks, All Other	734	765	30	\$19.36	HS diploma or equivalent
Cot	irse(s) only	Dull 14 C. II		1.12(•	445=0	770 le 1
	43-3011	Bill and Account Collectors	1,164	1,126	29	\$15.70	HS diploma or equivalent
	43-3021	Billing and Posting Clerks	2,198	2,334	93	\$15.28	HS diploma or equivalent
	43-3051	Payroll and Timekeeping Clerks	921	931	29	\$19.46	HS diploma or equivalent
	47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	1,600	1,641	47	\$26.55	HS diploma or equivalent
No	Courses	T C ID: 1 · W	(07	(50	20	¢ (0.00	TTC 1: 1
	11-3071	Transportation, Storage, and Distribution Managers	607	652	30	\$40.90	HS diploma or equivalent
	23-2011	Paralegals and Legal Assistants	983	974	23	\$23.44	Associate degree
	25-3021	Self-Enrichment Education Teachers	1,158	1,223	50	\$17.00	HS diploma or equivalent
	25-4031	Library Technicians	364	389	27	\$16.83	Postsecondary non-degree award
	29-2012	D . 111 * *.	381	417	21	\$20.59	Associate degree
	29-2021	Dental Hygienists	625	1 572	25	\$42.51 \$17.60	Associate degree
	29-2052	Pharmacy Technicians	1,433	1,572	62	\$17.49	HS diploma or equivalent HS diploma or equivalent
	29-2081	Opticians, Dispensing	314	348	20	\$18.05	HS diploma or equivalent HS diploma or equivalent
	29-2099 31-9091	Health Technologists and Technicians, All Other Dental Assistants	557 1 550	612	26	\$20.00 \$15.26	1 1
		Protective Service Workers, All Other	1,559	1,650	70 26	\$15.26	Postsecondary non-degree award HS diploma or equivalent
	33-9099		731 784	776		\$15.26 \$19.17	HS diploma or equivalent HS diploma or equivalent
	37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	/ 84	828	28	\$18.17	113 dipioina or equivalent
	39-1021	First-Line Supervisors of Personal Service Workers	603	668	36	\$16.52	HS diploma or equivalent
	41-3021	Insurance Sales Agents	1,345	1,423	73	\$23.02	HS diploma or equivalent
	41-3099	Sales Representatives, Services, All Other	2,369	2,492	94	\$18.85	HS diploma or equivalent
	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	3,466	3,806	198	\$26.58	HS diploma or equivalent
	43-4111	Interviewers, Except Eligibility and Loan	636	668	26	\$16.88	HS diploma or equivalent
	43-4151	Order Clerks	642	682	32	\$16.80	HS diploma or equivalent

	Gap A	analysis - Target Occupations Requiring an A	associate's Degi	ree or Less – N	Merced, San	Joaquin and	d Stanislaus Counties
						Med Hourly	
	SOC	Description	2015	2018	Annual	Earnings	Typical Entry Level Education
			Occupations	Occupations	Openings		
	43-5032	Dispatchers, Except Police, Fire, and Ambulance	946	1,005	44	\$18.93	HS diploma or equivalent
L	43-5052	Postal Service Mail Carriers	1,060	1,033	23	\$28.30	HS diploma or equivalent
Н	43-5061	Production, Planning, and Expediting Clerks	850	902	42	\$23.36	HS diploma or equivalent
L	43-5071	Shipping, Receiving, and Traffic Clerks	3,976	4,197	166	\$15.27	HS diploma or equivalent
Н	43-9041	Insurance Claims and Policy Processing Clerks	895	869	28	\$18.66	HS diploma or equivalent
Н	47-2021	Brick masons and Block masons	280	332	27	\$20.61	HS diploma or equivalent
Н	47-2031	Carpenters	3,393	3,470	105	\$19.70	HS diploma or equivalent
L	47-2051	Cement Masons and Concrete Finishers	651	624	29	\$17.34	No formal educational credential
	47-2061	Construction Laborers	3,778	3,999	172	\$14.77	No formal educational credential
	47-2073	Operating Engineers and Other Construction Equipment Operators	1,021	1,070	38	\$24.45	HS diploma or equivalent
	47-2141	Painters, Construction and Maintenance	1,612	1,668	55	\$16.35	No formal educational credential
	47-2152	Plumbers, Pipefitters, and Steamfitters	1,213	1,313	54	\$20.85	HS diploma or equivalent
	47-2181	Roofers	602	612	32	\$19.46	No formal educational credential
	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	1,508	1,587	58	\$31.62	HS diploma or equivalent
	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	623	661	23	\$23.72	Postsecondary non-degree award
	49-9099	Installation, Maintenance, and Repair Workers, All Other	813	839	23	\$15.73	HS diploma or equivalent
	51-1011	First-Line Supervisors of Production and Operating Workers	2,467	2,540	65	\$24.47	HS diploma or equivalent
	51-3021	Butchers and Meat Cutters	1,018	1,029	26	\$14.29	No formal educational credential
	51-3092	Food Batch-makers	1,122	1,208	57	\$15.28	HS diploma or equivalent
	51-4041	Machinists	849	880	38	\$19.01	HS diploma or equivalent
	51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	966	1,042	58	\$18.76	HS diploma or equivalent
Г	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	912	961	37	\$14.77	HS diploma or equivalent
	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2,087	2,163	80	\$17.90	HS diploma or equivalent
	51-9111	Packaging and Filling Machine Operators and Tenders	5,480	5,782	305	\$14.86	HS diploma or equivalent
	51-9196	Paper Goods Machine Setters, Operators, and Tenders	751	806	30	\$14.25	HS diploma or equivalent
	53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	1,120	1,217	72	\$24.85	HS diploma or equivalent
	53-1031	First-Line Supervisors of Transportation and Material- Moving Machine and Vehicle Operators	887	957	54	\$25.63	HS diploma or equivalent
	53-3021	Bus Drivers, Transit and Intercity	557	599	25	\$20.50	HS diploma or equivalent
	53-3022	Bus Drivers, School or Special Client	1,499	1,653	73	\$15.90	HS diploma or equivalent
	53-3032	Heavy and Tractor-Trailer Truck Drivers	13,103	13,901	505	\$18.14	Postsecondary non-degree award
	53-3033	Light Truck or Delivery Services Drivers	3,960	4,174	147	\$15.62	HS diploma or equivalent
	53-7051	Industrial Truck and Tractor Operators	5,564	6,007	298	\$19.10	No formal educational credential
	53-7063	Machine Feeders and Off-bearers	723	782	37	\$17.00	No formal educational credential
	53-7081	Refuse and Recyclable Material Collectors	598	628	28	\$19.22	No formal educational credential

Target Occupations (Higher-Skill³)

The following table shows the occupations that meet the same criteria as the previous analysis except for the typical entry-level educational requirements. This list shows the occupations that typically require a Bachelor's Degree. The criteria are as follows:

- Annual openings greater than or equal to 20
- Median hourly earnings greater than or equal to \$14.00
- Typical entry-level education: Bachelor's Degree

There are 60 occupations in the three-county region (Merced, San Joaquin and Stanislaus) that meet these criteria. This information is included in the Educational Master Plan because many of the students attending the College will transfer to a four-year institution to complete a Bachelor's Degree. Some educational programs offered by the College prepare students for transfer and might be oriented toward some of the occupations listed here.

	Target Occupations Requiring a Bachelor's Degree – Merced, S	an Joaquin an	d Stanislaus C	Counties	
SOC	Description	2015 Jobs	2018 Jobs	Annual Openings	Median Hourly Earnings
11-1011	Chief Executives	938	949	21	\$70.64
11-1021	General and Operations Managers	6,801	7,181	307	\$41.02
11-2022	Sales Managers	1,473	1,525	54	\$39.89
11-3011	Administrative Services Managers	738	782	29	\$41.03
11-3031	Financial Managers	1,818	1,837	56	\$48.40
11-3051	Industrial Production Managers	773	788	29	\$40.58
11-9021	Construction Managers	1,263	1,243	32	\$28.98
11-9111	Medical and Health Services Managers	963	1,048	54	\$49.87
11-9151	Social and Community Service Managers	510	552	34	\$30.31
11-9199	Managers, All Other	1,880	1,942	65	\$31.01
13-1022	Wholesale and Retail Buyers, Except Farm Products	431	455	22	\$25.41
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	671	690	26	\$28.32
13-1051	Cost Estimators	856	887	41	\$28.38
13-1071	Human Resources Specialists	1,059	1,128	51	\$28.26
13-1111	Management Analysts	1,326	1,413	49	\$31.35
13-1151	Training and Development Specialists	506	542	25	\$22.99
13-1161	Market Research Analysts and Marketing Specialists	745	821	35	\$25.34
13-1199	Business Operations Specialists, All Other	1,765	1,854	52	\$31.33
13-2011	Accountants and Auditors	3,097	3,294	155	\$29.06
15-1121	Computer Systems Analysts	593	648	26	\$33.39
15-1132	Software Developers, Applications	474	522	24	\$39.39
15-1142	Network and Computer Systems Administrators	721	758	21	\$36.43
17-2051	Civil Engineers	561	564	21	\$43.90
21-1011	Substance Abuse and Behavioral Disorder Counselors	391	424	21	\$23.65
21-1021	Child, Family, and School Social Workers	909	958	45	\$20.19
21-1023	Mental Health and Substance Abuse Social Workers	466	501	25	\$24.10
21-2011	Clergy	683	722	30	\$22.10
25-2012	Kindergarten Teachers, Except Special Education	1,104	1,167	55	\$31.75

³Middle-skill jobs, here, are defined as those jobs typically requiring an Associate's Degree or less as the entry level educational requirement.

	Target Occupations Requiring a Bachelor's Degree – Merced, Sa	an Joaquin an	d Stanislaus C	Counties	
SOC	Description	2015 Jobs	2018 Jobs	Annual Openings	Median Hourly Earnings
25-2021	Elementary School Teachers, Except Special Education	6,224	6,699	307	\$35.58
25-2022	Middle School Teachers, Except Special and Career/Technical Education	3,051	3,276	148	\$33.02
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	3,293	3,579	180	\$34.98
25-2052	Special Education Teachers, Kindergarten and Elementary School	440	491	26	\$33.43
25-2054	Special Education Teachers, Secondary School	424	462	22	\$33.61
25-3098	Substitute Teachers	4,143	4,397	167	\$18.57
25-3099	Teachers and Instructors, All Other	1,618	1,701	63	\$17.14
25-9099	Education, Training, and Library Workers, All Other	1,373	1,435	34	\$14.88
27-2022	Coaches and Scouts	802	861	49	\$17.58
27-3091	Interpreters and Translators	501	542	22	\$17.94
29-1141	Registered Nurses	8,098	8,795	438	\$48.35
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	680	730	33	\$33.14

Target Occupations – Santa Clara County

The following table shows the Santa Clara County occupations that meet the following criteria:

- Annual openings greater than or equal to 40
- Median hourly earnings greater than or equal to \$14.00
- Typical entry level education: Bachelor's Degree or less

There are 57 occupations that require an Associate's Degree or less, and 42 occupations requiring a Bachelor's Degree.

	Target Occupations Requiring an Associate's Degree or Les	s – Santa Clara	County		
SOC	Description	2015 Jobs	2018 Jobs	Annual Openings	Median Hourly Earnings
Associate De	egree				
15-1134	Web Developers	1,403	1,637	98	\$46.19
25-2011	Preschool Teachers, Except Special Education	1,554	1,626	79	\$18.14
Postseconda	ry Non-degree Award				
29-2061	Licensed Practical and Licensed Vocational Nurses	853	953	61	\$27.82
31-1014	Nursing Assistants	1,460	1,660	103	\$17.97
31-9091	Dental Assistants	1,062	1,121	47	\$21.42
31-9092	Medical Assistants	1,432	1,564	77	\$21.36
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,611	1,713	77	\$14.08
49-3011	Aircraft Mechanics and Service Technicians	1,951	2,097	98	\$38.96
49-3023	Automotive Service Technicians and Mechanics	1,796	1,870	76	\$22.24
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	427	523	42	\$24.68
53-3032	Heavy and Tractor-Trailer Truck Drivers	1,709	1,738	47	\$20.76
Some Colleg	e, No Degree				
15-1151	Computer User Support Specialists	2,815	3,159	154	\$32.46
25-9041	Teacher Assistants	3,133	3,332	147	\$17.30
43-3031	Bookkeeping, Accounting, and Auditing Clerks	4,146	4,254	78	\$23.54
HS diploma	or equivalent				
11-9051	Food Service Managers	1,147	1,213	46	\$20.52

SOC Description 2015 John Annual John Median John 25-3021 Self-Enrichment Education Teachers 1,226 1,356 71 \$21,49 33-3932 Security Guards 3,690 3,741 101 \$16,60 35-1912 First-Line Supervisors of Food Peptraction and Serving Workers 2,056 2,233 1124 \$118,83 35-9031 First-Line Supervisors of Food Peptraction and Serving Workers 1,094 1,186 53 \$15,08 35-9032 Recreation Workers 2,666 2,248 85 \$15,09 41-1911 Alternation Supervisors of Real Sales Workers 2,666 2,246 85 \$18,09 41-1921 Abscrizing Sales Agents 1,419 1,40 49 52,90 \$3,836 41-1921 Abscrizing Sales Agents 1,419 1,40 49 \$229 \$3,806 41-1921 Abscrizing Sales Agents 1,419 1,40 49 \$229 \$3,806 41-1921 Sales Expersentatives, Workers 5,36 5,74 \$229		Target Occupations Requiring an Associate's Degree or Les	ss – Santa Clara	County		
33-3051 Police and Sheefith's Part O'Mènes 1,266 1,353 67 5818.56	SOC	Description	2015 Jobs			Hourly
33-9012 Security Canads 36.90 3.741 101 31.602	25-3021	Self-Enrichment Education Teachers	1,226	1,365	71	
35-1012 First-Line Supervisors of Food Peparation and Serving Workers	33-3051	Police and Sheriff's Patrol Officers	1,266	1,338	67	\$48.56
39.99.013 Fitnes Tainlers and Aerobics Instructors	33-9032	Security Guards	3,690	3,741	101	\$16.02
39.99.013 Fitnes Tainlers and Aerobics Instructors	35-1012		2,056	2,233	124	\$18.48
14-1011 First Line Supervisors of Retail Voleworks	39-9031		1,332	1,483	77	\$20.81
41-3011 Advertising Sales Agents	39-9032	Recreation Workers	1,094	1,186	53	\$15.68
41-3011 Advertising Sales Agents	41-1011	First-Line Supervisors of Retail Sales Workers	2,866	2,846	85	\$18.97
14.3021 Insurance Sales Agents	41-3011			739	50	\$34.82
41-4012 Sales Representatives, Services, All Orber S.340 S.7.30 250 \$38.06 41-4012 Sales Representatives, Wholesale and Manufacturing, Except Technical and 2,726 2,783 84 \$26.87 \$4.0012 \$1	41-3021		1,419	1,403	49	\$28.93
43-1011 First-Line Supervisors of Office and Administrative Support Workers 1,268 1,26	41-3099				250	\$38.06
43-3021 Billing and Posting Clerks		Sales Representatives, Wholesale and Manufacturing, Except Technical and			84	
43-4051 Customer Service Representatives 4.823 5.286 281 \$21.97 43-4081 Hotel, Motel, and Resort Desk Clerks 583 636 49 \$14.91 43-4081 Receptionists and Information Clerks 2.217 2.379 119 \$17.11 43-4181 Reservation and Transportation Ticker Agents and Travel Clerks 2.575 2.806 112 \$17.25 43-5011 Cargo and Freight Agents 755 791 40 \$20.24 43-5061 Production, Planning, and Expediting Clerks 1.049 1.092 44 \$27.66 43-5071 Shipping, Receiving, and Traffic Clerks 1.049 1.079 46 \$18.07 43-6011 Executive Secretaries and Executive Administrative Assistants 2.200 2.984 53 \$32.79 43-6013 Medical Secretaries 4.049 4.049 4.049 4.049 4.049 43-6014 Executive 5.0616 174 \$20.78 43-6016 Geretaries and Administrative Assistants, Except Legal, Medical, and 5.272 5.616 174 \$20.78 43-9061 Office clerks, General 7.788 8.239 325 \$19.23 43-9190 Office and Administrative Support Workers, All Other 1.093 1.138 47 \$16.68 47-2011 First-Line Supervisors of Construction Trades and Extraction Workers 1.475 1.609 64 \$39.22 47-2012 Carpenters 3.324 3.585 254 \$41.05 47-2152 Plumbers, Pipefitters, and Steamfitters 1.617 1.845 103 \$20.506 49-9071 Maimenance and Repair Workers, General 1.903 2.074 111 \$25.38 49-9071 Maimenance and Repair Workers, General 1.903 2.074 111 \$25.38 53-2031 Flight Attendants 4.271 4.668 217 \$21.65 53-2031 Flight Attendants	43-1011	First-Line Supervisors of Office and Administrative Support Workers	3,853	4,099	144	\$29.89
43-4081 Hotel, Mortl, and Resort Desk Clerks 583 636 49 514-91 43-4171 Receptionists and Information Clerks 2,217 2,379 119 517.11 43-4181 Reservation and Transportation Ticker Agents and Travel Clerks 2,275 2,806 112 517.25 43-5011 Cargo and Freight Agents 755 791 40 520.24 43-50611 Production, Planning, and Expediting Clerks 1,049 1,092 44 527.66 43-5071 Shipping, Receiving, and Traffic Clerks 1,649 1,679 46 518.07 43-6011 Executive Secretaries and Executive Administrative Assistants 2,220 2,984 53 832.79 43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and 5,272 5,616 174 520.78 Executive 7,788 8,239 325 519.23 43-9061 Office Clerks, General 7,788 8,239 325 519.23 43-9199 Office and Administrative Support Workers, All Other 1,093 1,138 47 516.68 47-2031 Carpenters 3,441 3,731 149 524.95 47-2111 Electricians 3,324 3,585 2,54 841.05 47-2121 Ellumbers, Pipefitters, and Seamfitters 1,617 1,845 103 52.69,6 49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 525.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 1,903 2,074 111 525.38 51-9111 Palectaric Supervisors of Mechanics, Installers, and Repairers 906 971 41 837.50 49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 525.38 51-9111 Palectaring and Filling Machine Operators and Tenders 912 1,000 63 514.35 53-2031 Ellight Attendants 1,301 1,262 49 514.79 53-3033 Driver/Sales Workers 1,570 1,652 49 514.79 53-3031 Driver/Sales Workers 1,570 1,652 49 514.79 53-2012 Cooks, Institution and Cafeteria 5,520 6,44 48 516.50 53-2031 Parking Lot Attendants 1,301 1,284 76 814.48 Backglown or equivalent 1,301 1,284 76 814.48 Backglown or equivalent 1,301 1,284 76	43-3021	Billing and Posting Clerks		1,268	56	\$24.62
43-4171 Receptationists and Information Clerks 2,217 2,379 119 \$17,11 43-4181 Reservation and Transportation Ticket Agents and Travel Clerks 2,575 2,806 112 \$17,25 43-5011 Cargo and Freight Agents 759 40 \$20,24 43-5011 Cargo and Freight Agents 791 40 \$27,66 43-5011 Shipping, Receiving, and Traffic Clerks 1,649 1,679 44 \$27,66 43-5071 Shipping, Receiving, and Traffic Clerks 1,649 1,679 44 \$21,76 43-6011 Executive Secretaries and Executive Administrative Assistants 2,920 2,984 53 \$32,79 43-6013 Medical Secretaries 1,397 1,496 49 \$21,47 \$43-6013 Kecretaries and Administrative Assistants, Except Legal, Medical, and 5,272 5,616 174 \$20,78 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$20,78 \$20,74 \$2	43-4051		4,823	5,286	281	\$21.97
43-4181 Reservation and Transportation Ticker Agents and Travel Clerks	43-4081	Hotel, Motel, and Resort Desk Clerks	583	636	49	\$14.91
43-5011 Cargo and Freight Agents 7,55 791 40 \$20.24 43-5061 Production, Planning, and Expediting Clerks 1,049 1,092 44 \$27.66 43-5071 Shipping, Receiving, and Traffic Clerks 1,649 1,679 46 \$18.07 43-6011 Executive Secretaries and Executive Administrative Assistants 2,920 2,984 53 \$32.79 43-6013 Medical Secretaries 1,397 1,496 49 \$21.47 43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and 5,272 5,616 174 \$20.78 Executive	43-4171	Receptionists and Information Clerks	2,217	2,379	119	\$17.11
43-5061 Production, Planning, and Expediting Clerks 1,049 1,092 44 \$27.66 43-5071 Shipping, Receiving, and Traffic Clerks 1,649 1,679 46 \$18.07 43-6011 Executive Scretaries and Executive Administrative Assistants 2,920 2,984 53 \$32.79 43-6013 Medical Secretaries and Executive Administrative Assistants 1,397 1,496 49 \$21.47 43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and 5,272 5,616 174 \$20.78 Executive \$20.78 \$20.78 \$20.79 \$20.78 \$20.79 \$20.78 \$20.79 \$20.78 \$20.79 \$20.78 \$20.79 \$20.78 \$20.79 \$20.78 \$20.79 \$20.78 \$20.79 \$20.78 \$20.79 \$20.79 \$20.78 \$20.79 \$20.78 \$20.79 \$20.79 \$20.78 \$20.79 \$20.79 \$20.78 \$20.79 \$20.79 \$20.78 \$20.79	43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	2,575	2,806	112	\$17.25
43-6071 Shipping, Receiving, and Traffic Clerks 1,649 1,679 46 \$18.07 43-6011 Executive Secretaries and Executive Administrative Assistants 2,920 2,984 53 532.79 43-6013 Medical Secretaries and Executive Administrative Assistants 1,397 1,496 49 \$21,47 43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 5,272 5,616 174 \$20.78 Executive 5,274 5,616 174 \$20.78 \$43-9061 Office Clerks, General 7,788 8,239 325 \$19.23 \$43-919 Office and Administrative Support Workers, All Other 1,093 1,138 47 \$16.68 \$47-1011 First-Line Supervisors of Construction Trades and Extraction Workers 1,475 1,609 64 \$39.22 \$47-2031 Electricians 3,324 3,585 254 \$41.05 \$41.05 \$47-2152 Plumbers, Pipefitters, and Steamfitters 1,617 1,845 103 \$22.696 \$49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers 906 971 41 \$37.50 \$49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 \$19.9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 \$19.911 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 \$3-2031 Flight Attendants 4,271 4,668 217 \$21.65 \$3-3031 Elight Truck or Delivery Services Drivers 1,570 1,632 49 \$14.79 \$3-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 \$3-609 Transportation Workers, All Other 1,138 1,209 85 \$19.53 \$3-3031 Elight Truck or Delivery Services Drivers 3,419 1,009 8,5 \$19.53 \$3-3031 Elight Truck or Delivery Services Drivers 3,419 3	43-5011	Cargo and Freight Agents	755	791	40	\$20.24
43-6071 Shipping, Receiving, and Traffic Clerks 1,649 1,679 46 \$18.07 43-6011 Executive Secretaries and Executive Administrative Assistants 2,920 2,984 53 532.79 43-6013 Medical Secretaries and Executive Administrative Assistants 1,397 1,496 49 \$21,47 43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 5,272 5,616 174 \$20.78 Executive 5,274 5,616 174 \$20.78 \$43-9061 Office Clerks, General 7,788 8,239 325 \$19.23 \$43-919 Office and Administrative Support Workers, All Other 1,093 1,138 47 \$16.68 \$47-1011 First-Line Supervisors of Construction Trades and Extraction Workers 1,475 1,609 64 \$39.22 \$47-2031 Electricians 3,324 3,585 254 \$41.05 \$41.05 \$47-2152 Plumbers, Pipefitters, and Steamfitters 1,617 1,845 103 \$22.696 \$49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers 906 971 41 \$37.50 \$49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 \$19.9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 \$19.911 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 \$3-2031 Flight Attendants 4,271 4,668 217 \$21.65 \$3-3031 Elight Truck or Delivery Services Drivers 1,570 1,632 49 \$14.79 \$3-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 \$3-609 Transportation Workers, All Other 1,138 1,209 85 \$19.53 \$3-3031 Elight Truck or Delivery Services Drivers 3,419 1,009 8,5 \$19.53 \$3-3031 Elight Truck or Delivery Services Drivers 3,419 3	43-5061	Production, Planning, and Expediting Clerks	1,049	1,092	44	\$27.66
43-6013 Medical Secretaries 1,397 1,496 49 \$21.47 43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 5.616 174 \$20.78 \$20.78 \$20.000	43-5071		1,649	1,679	46	\$18.07
43-6013 Medical Secretaries 1,397 1,496 49 \$21.47 43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 5.616 174 \$20.78 \$2.078 \$2.079 \$2.0	43-6011		2,920	2,984	53	\$32.79
43-6014 Secretaries and Administrative Assistants, Except Legal, Medical, and Executive 5,272 5,616 174 \$20.78	43-6013	Medical Secretaries			49	\$21.47
Executive		Secretaries and Administrative Assistants, Except Legal, Medical, and			174	\$20.78
43-9199 Office and Administrative Support Workers, All Other 1,093 1,138 47 \$16.68 47-1011 First-Line Supervisors of Construction Trades and Extraction Workers 1,475 1,609 64 \$39.22 47-2031 Carpenters 3,441 3,731 149 \$24.95 47-2111 Electricians 3,324 3,585 254 \$41.05 47-2152 Plumbers, Pipefitters, and Steamfitters 1,617 1,845 103 \$26.96 49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers 906 971 41 \$37.50 49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9111 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 \$19.5						
47-1011 First-Line Supervisors of Construction Trades and Extraction Workers 1,475 1,609 64 \$39.22 47-2031 Carpenters 3,441 3,731 149 \$24.95 47-2111 Electricians 3,324 3,585 254 \$41.05 47-2152 Plumbers, Pipefitters, and Steamfitters 1,617 1,845 103 \$26.96 49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers 906 971 41 \$37.50 49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9011 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 51-9011 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3033 Light Truck or Delivery Services Drivers 2,543 2,5	43-9061	Office Clerks, General	7,788	8,239	325	\$19.23
47-1011 First-Line Supervisors of Construction Trades and Extraction Workers 1,475 1,609 64 \$39.22 47-2031 Carpenters 3,441 3,731 149 \$24.95 47-2111 Electricians 3,324 3,585 254 \$41.05 47-2152 Plumbers, Pipefitters, and Steamfitters 1,617 1,845 103 \$26.96 49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers 906 971 41 \$37.50 49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9011 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 51-9011 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3033 Light Truck or Delivery Services Drivers 2,543 2,5	43-9199	Office and Administrative Support Workers, All Other	1,093	1,138	47	\$16.68
47-2031 Carpenters 3,441 3,731 149 \$24.95 47-2111 Electricians 3,324 3,885 254 \$41.05 47-2152 Plumbers, Pipefitters, and Steamfitters 1,617 1,845 103 \$26.96 49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers 906 971 41 \$37.50 49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9111 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 51-911 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 51-9011 Plight Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 <td>47-1011</td> <td></td> <td></td> <td>1,609</td> <td>64</td> <td>\$39.22</td>	47-1011			1,609	64	\$39.22
47-2111 Electricians 3,324 3,585 254 \$41.05 47-2152 Plumbers, Pipefitters, and Steamfitters 1,617 1,845 103 \$26.96 49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers 996 971 41 \$37.50 49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9111 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flighr Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 52 634 44 \$16.74 <t< td=""><td>47-2031</td><td></td><td></td><td></td><td>149</td><td></td></t<>	47-2031				149	
47-2152 Plumbers, Pipefitters, and Steamfitters 1,617 1,845 103 \$26.96 49-1011 First-Line Supervisors of Mechanics, Installers, and Repairers 906 971 41 \$37.50 49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9111 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6090 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 3,200 2,543 2,519 61 <td>47-2111</td> <td></td> <td></td> <td></td> <td>254</td> <td>\$41.05</td>	47-2111				254	\$41.05
49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9111 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 35-2012 Cooks, Institution and Cafeteria 552 634 44 \$16.74 37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 8achelor's degree 11-2021 Marketing Managers 2,251 2,331 81 \$68.39 11-2021 Sales Managers 2,251 2,331 81 \$68.39 11-3011 Administrative Services Managers 1,090 1,156 43 \$49.96 11-3021 Computer and Information Systems Managers 2,609 2,891 127 \$82.64 11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 1,391 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47	47-2152	Plumbers, Pipefitters, and Steamfitters	1,617		103	\$26.96
49-9071 Maintenance and Repair Workers, General 1,903 2,074 111 \$25.38 51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9111 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 35-2012 Cooks, Institution and Cafeteria 552 634 44 \$16.74 37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 8achelor's degree 11-2021 Marketing Managers 2,251 2,331 81 \$68.39 11-2021 Sales Managers 2,251 2,331 81 \$68.39 11-3011 Administrative Services Managers 1,090 1,156 43 \$49.96 11-3021 Computer and Information Systems Managers 2,609 2,891 127 \$82.64 11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 1,391 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	906	971	41	\$37.50
51-9061 Inspectors, Testers, Sorters, Samplers, and Weighers 840 896 41 \$20.58 51-9111 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 35-2012 Cooks, Institution and Cafeteria 552 634 44 \$16.74 37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lor Attendants 1,301 1,284 76 <t< td=""><td>49-9071</td><td>Maintenance and Repair Workers, General</td><td>1,903</td><td>2,074</td><td>111</td><td>\$25.38</td></t<>	49-9071	Maintenance and Repair Workers, General	1,903	2,074	111	\$25.38
51-9111 Packaging and Filling Machine Operators and Tenders 912 1,000 63 \$14.35 53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 55 634 44 \$16.74 35-2012 Cooks, Institution and Cafeteria 552 634 44 \$16.74 37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Bachelor's degree 11-202	51-9061		840	896	41	
53-2031 Flight Attendants 4,271 4,668 217 \$21.65 53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent	51-9111		912	1,000	63	\$14.35
53-3031 Driver/Sales Workers 1,570 1,632 49 \$14.79 53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 35-2012 Cooks, Institution and Cafeteria 552 634 44 \$16.74 37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-2011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Bachelor's degree 11-2021 Marketing Managers 2,251 2,331 81 \$68.39 11-2021 Marketing Managers 2,251 2,331 81 \$68.39 11-3011 Administrative Services Managers 1,090 1,156 <td< td=""><td>53-2031</td><td></td><td>4,271</td><td>4,668</td><td>217</td><td>\$21.65</td></td<>	53-2031		4,271	4,668	217	\$21.65
53-3033 Light Truck or Delivery Services Drivers 2,543 2,519 61 \$15.76 53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 35-2012 Cooks, Institution and Cafeteria 552 634 44 \$16.74 37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Backelor's degree	53-3031	Driver/Sales Workers	4.500	1,632	49	\$14.79
53-6099 Transportation Workers, All Other 1,138 1,209 85 \$19.53 HS diploma or equivalent 35-2012 Cooks, Institution and Cafeteria 552 634 44 \$16.74 37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Bachelor's degree				2,519	61	
35-2012 Cooks, Institution and Cafeteria 552 634 44 \$16.74 37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Bachelor's degree					85	
37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Bachelor's degree	HS diploma	or equivalent				
37-2012 Maids and Housekeeping Cleaners 7,490 10,054 1,077 \$14.21 37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Bachelor's degree *** *** *** *** *** *** \$4.00 ***			552	634	44	\$16.74
37-3011 Landscaping and Groundskeeping Workers 3,813 4,016 140 \$16.50 47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Bachelor's degree 11-2021 Marketing Managers 1,827 1,947 85 \$84.00 11-2022 Sales Managers 2,251 2,331 81 \$68.39 11-3011 Administrative Services Managers 1,090 1,156 43 \$49.96 11-3021 Computer and Information Systems Managers 2,609 2,891 127 \$82.64 11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$4		Maids and Housekeeping Cleaners		10,054	1,077	
47-2061 Construction Laborers 3,479 3,806 186 \$20.71 53-6021 Parking Lot Attendants 1,301 1,284 76 \$14.48 Bachelor's degree 11-2021 Marketing Managers 1,827 1,947 85 \$84.00 11-2022 Sales Managers 2,251 2,331 81 \$68.39 11-3011 Administrative Services Managers 1,090 1,156 43 \$49.96 11-3021 Computer and Information Systems Managers 2,609 2,891 127 \$82.64 11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47						
Bachelor's degree Second Processing	47-2061	Construction Laborers	3,479	3,806	186	\$20.71
Bachelor's degree Second of the control o		Parking Lot Attendants			76	
11-2021 Marketing Managers 1,827 1,947 85 \$84.00 11-2022 Sales Managers 2,251 2,331 81 \$68.39 11-3011 Administrative Services Managers 1,090 1,156 43 \$49.96 11-3021 Computer and Information Systems Managers 2,609 2,891 127 \$82.64 11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47		egree				
11-2022 Sales Managers 2,251 2,331 81 \$68.39 11-3011 Administrative Services Managers 1,090 1,156 43 \$49.96 11-3021 Computer and Information Systems Managers 2,609 2,891 127 \$82.64 11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47			1,827	1,947	85	
11-3011 Administrative Services Managers 1,090 1,156 43 \$49.96 11-3021 Computer and Information Systems Managers 2,609 2,891 127 \$82.64 11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47	11-2022		2,251	2,331	81	\$68.39
11-3021 Computer and Information Systems Managers 2,609 2,891 127 \$82.64 11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47	11-3011		1,090		43	\$49.96
11-3031 Financial Managers 2,572 2,684 105 \$76.06 11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47	11-3021		2,609	2,891	127	\$82.64
11-9021 Construction Managers 1,390 1,449 48 \$51.95 11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47	11-3031		2,572		105	\$76.06
11-9041 Architectural and Engineering Managers 999 1,039 45 \$76.42 11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47	11-9021			1,449	48	\$51.95
11-9121 Natural Sciences Managers 1,137 1,232 57 \$93.07 11-9199 Managers, All Other 2,864 3,016 117 \$45.47					45	
11-9199 Managers, All Other 2,864 3,016 117 \$45.47						

	Target Occupations Requiring an Associate's Degree or Les	s – Santa Clara	County		
SOC	Description	2015 Jobs	2018 Jobs	Annual Openings	Median Hourly Earnings
13-1051	Cost Estimators	699	766	44	\$35.95
13-1071	Human Resources Specialists	1,819	1,938	88	\$40.08
13-1111	Management Analysts	4,616	4,980	189	\$47.90
13-1151	Training and Development Specialists	817	892	47	\$39.32
13-1161	Market Research Analysts and Marketing Specialists	3,948	4,317	173	\$40.65
13-1199	Business Operations Specialists, All Other	3,689	3,916	122	\$42.69
13-2011	Accountants and Auditors	5,130	5,505	270	\$36.58
13-2051	Financial Analysts	2,327	2,457	95	\$52.16
13-2052	Personal Financial Advisors	1,423	1,591	99	\$48.96
15-1121	Computer Systems Analysts	3,747	4,224	212	\$52.15
15-1131	Computer Programmers	2,356	2,420	82	\$51.47
15-1132	Software Developers, Applications	9,114	10,178	496	\$57.57
15-1133	Software Developers, Systems Software	3,957	4,260	161	\$62.26
15-1142	Network and Computer Systems Administrators	1,860	2,045	89	\$51.44
15-1199	Computer Occupations, All Other	1,115	1,195	44	\$50.63
17-2061	Computer Hardware Engineers	1,437	1,480	45	\$67.21
19-1022	Microbiologists	932	992	46	\$52.34
19-2031	Chemists	1,507	1,617	71	\$46.32
19-4021	Biological Technicians	1,245	1,363	76	\$36.60
25-2021	Elementary School Teachers, Except Special Education	3,393	3,610	151	\$32.76
25-2022	Middle School Teachers, Except Special and Career/Technical Education	977	1,057	49	\$33.23
25-2031	Secondary School Teachers, Except Special and Career/Technical Education	1,673	1,800	84	\$35.40
25-3098	Substitute Teachers	777	851	40	\$15.10
25-3099	Teachers and Instructors, All Other	1,093	1,201	58	\$26.60
27-1024	Graphic Designers	1,223	1,276	48	\$32.84
27-2012	Producers and Directors	663	726	47	\$38.66
27-2022	Coaches and Scouts	703	780	51	\$18.39
27-3041	Editors	557	628	46	\$34.34
29-1141	Registered Nurses	4,281	4,600	218	\$67.00
41-3031	Securities, Commodities, and Financial Services Sales Agents	1,455	1,473	49	\$32.82
41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	2,055	2,152	78	\$47.58
53-2011	Airline Pilots, Copilots, and Flight Engineers	2,592	2,840	152	\$70.03



Gap Analysis - Santa Clara County

The gap analysis is to identify gaps between the high-wage, middle-skill jobs in the region, and the programs offered at the College. The first section looks at the target occupations first, and compares them to the programs offered at the College. The second section starts with the programs offered at the college and identifies those that train students for jobs that are not on the target occupation list.

Occupation Analysis

The following table shows the same 98 target occupations reorganized. The occupations are grouped by the type of degrees, certificates or courses that the college currently offers. For example, the first section shows the occupations for which the College offers degree and certificate options, followed by occupations for which the College offers only degree options.

		Gap Analysis - Target Occupations Req	uiring an Associate'	s Degree or Less –	Santa Clara Co	unty	
			2015	2018	Annual	Med Hourly	
	SOC	Description	Occupations	Occupations	Openings	Earnings	Typical Entry Level Education
Degree(s) a	ınd Certificat	e(s)					
	11-9051	Food Service Managers	1,147	1,213	46	\$20.52	HS diploma or equivalent
	15-1151	Computer User Support Specialists	2,815	3,159	154	\$32.46	Some college no degree
	25-9041	Teacher Assistants	3,133	3,332	147	\$17.30	Some college no degree
	29-2061	Licensed Practical and Licensed Vocational Nurses	853	953	61	\$27.82	Postsecondary non-degree award
	31-1014	Nursing Assistants	1,460	1,660	103	\$17.97	Postsecondary non-degree award
	31-9092	Medical Assistants	1,432	1,564	77	\$21.36	Postsecondary non-degree award
	33-3051	Police and Sheriff's Patrol Officers	1,266	1,338	67	\$48.56	HS diploma or equivalent
	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	2,056	2,233	124	\$18.48	HS diploma or equivalent
	35-2012	Cooks, Institution and Cafeteria	552	634	44	\$16.74	No formal educational credential
	37-3011	Landscaping and Groundskeeping Workers	3,813	4,016	140	\$16.50	No formal educational credential
	39-9031	Fitness Trainers and Aerobics Instructors	1,332	1,483	77	\$20.81	HS diploma or equivalent
	41-3011	Advertising Sales Agents	654	739	50	\$34.82	HS diploma or equivalent
	43-1011	First-Line Supervisors of Office and Administrative Support Workers	3,853	4,099	144	\$29.89	HS diploma or equivalent
	43-3031	Bookkeeping, Accounting, and Auditing Clerks	4,146	4,254	78	\$23.54	Some college no degree
	43-4171	Receptionists and Information Clerks	2,217	2,379	119	\$17.11	HS diploma or equivalent
	43-6011	Executive Secretaries and Executive Administrative Assistants	2,920	2,984	53	\$32.79	HS diploma or equivalent
	43-6013	Medical Secretaries	1,397	1,496	49	\$21.47	HS diploma or equivalent
	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	5,272	5,616	174	\$20.78	HS diploma or equivalent
	43-9061	Office Clerks, General	7,788	8,239	325	\$19.23	HS diploma or equivalent
	43-9199	Office and Administrative Support Workers, All Other	1,093	1,138	47	\$16.68	HS diploma or equivalent
	47-2111	Electricians	3,324	3,585	254	\$41.05	HS diploma or equivalent

		Gap Analysis - Target Occupations Req	uiring an Associate	's Degree or Less –	Santa Clara Co	unty	
			2015	2018	Annual	Med Hourly	
	SOC	Description	Occupations	Occupations	Openings	Earnings	Typical Entry Level Education
	49-3023	Automotive Service Technicians and Mechanics	1,796	1,870	76	\$22.24	Postsecondary non-degree award
	49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and	427	523	42	\$24.68	Postsecondary non-degree award
		Installers					
	49-9071	Maintenance and Repair Workers, General	1,903	2,074	111	\$25.38	HS diploma or equivalent
Degree(s)							
	25-2011	Preschool Teachers, Except Special Education	1,554	1,626	79	\$18.14	Associate degree
0.40	() 1						
Certificate		WID I	1 /02	1 (27	0.0	¢/(10	A 1 1
	15-1134	Web Developers	1,403	1,637	98	\$46.19	Associate degree
	41-1011	First-Line Supervisors of Retail Sales Workers	2,866	2,846	85	\$18.97	HS diploma or equivalent
	43-4051	Customer Service Representatives	4,823	5,286	281	\$21.97	HS diploma or equivalent
C ()	L .						
Course(s)	39-9032	Recreation Workers	1,094	1,186	53	\$15.68	HS diploma or equivalent
	43-3021	Billing and Posting Clerks	1,094	1,268	56	\$24.62	HS diploma or equivalent
	47-1011	First-Line Supervisors of Construction Trades and Extraction	1,100		64		1 1
	4/-1011	Workers	1,4/)	1,609	04	\$39.22	HS diploma or equivalent
		WOIREIS					
No Course	·c						
Tio Course	25-3021	Self-Enrichment Education Teachers	1,226	1,365	71	\$21.49	HS diploma or equivalent
	31-9091	Dental Assistants	1,062	1,121	47	\$21.42	Postsecondary non-degree award
	33-9032	Security Guards	3,690	3,741	101	\$16.02	HS diploma or equivalent
	37-2012	Maids and Housekeeping Cleaners	7,490	10,054	1,077	\$14.21	No formal educational credential
	39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,611	1,713	77	\$14.08	Postsecondary non-degree award
	41-3021	Insurance Sales Agents	1,419	1,403	49	\$28.93	HS diploma or equivalent
	41-3099	Sales Representatives, Services, All Other	5,340	5,730	250	\$38.06	HS diploma or equivalent
	41-4012	Sales Representatives, Wholesale and Manufacturing, Except	2,726	2,783	84	\$26.87	HS diploma or equivalent
		Technical and Scientific Products					
	43-4081	Hotel, Motel, and Resort Desk Clerks	583	636	49	\$14.91	HS diploma or equivalent
	43-4181	Reservation and Transportation Ticket Agents and Travel	2,575	2,806	112	\$17.25	HS diploma or equivalent
		Clerks					
	43-5011	Cargo and Freight Agents	755	791	40	\$20.24	HS diploma or equivalent
	43-5061	Production, Planning, and Expediting Clerks	1,049	1,092	44	\$27.66	HS diploma or equivalent
	43-5071	Shipping, Receiving, and Traffic Clerks	1,649	1,679	46	\$18.07	HS diploma or equivalent
	47-2031	Carpenters	3,441	3,731	149	\$24.95	HS diploma or equivalent
	47-2061	Construction Laborers	3,479	3,806	186	\$20.71	No formal educational credential
	47-2152	Plumbers, Pipefitters, and Steamfitters	1,617	1,845	103	\$26.96	HS diploma or equivalent
	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	906	971	41	\$37.50	HS diploma or equivalent
	49-3011	Aircraft Mechanics and Service Technicians	1,951	2,097	98	\$38.96	Postsecondary non-degree award
	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	840	896	41	\$20.58	HS diploma or equivalent
	51-9111	Packaging and Filling Machine Operators and Tenders	912	1,000	63	\$14.35	HS diploma or equivalent
	53-2031	Flight Attendants	4,271	4,668	217	\$21.65	HS diploma or equivalent
	53-3031	Driver/Sales Workers	1,570	1,632	49	\$14.79	HS diploma or equivalent

Gap Analysis - Target Occupations Requiring an Associate's Degree or Less – Santa Clara County							
		2015	2018	Annual	Med Hourly		
SOC	Description	Occupations	Occupations	Openings	Earnings	Typical Entry Level Education	
53-3033	Light Truck or Delivery Services Drivers	2,543	2,519	61	\$15.76	HS diploma or equivalent	
53-6021	Parking Lot Attendants	1,301	1,284	76	\$14.48	No formal educational credential	
53-6099	Transportation Workers, All Other	1,138	1,209	85	\$19.53	HS diploma or equivalent	

Program Analysis

This table shows the degree and certificate programs at the College, and the relevant occupations. The final column shows if the occupation is on the Target Occupation list (above). If the occupation is not on the Target Occupation list, it means the occupation has fewer than 20 annual openings, a median hourly wage under \$14.00/hour, or, typically requires more than an Associate's Degree.

	Programs Linked to Occupations					
ТОР	Program Title	SOC Code	SOC Code Description	Target Occupation?		
10100	Agriculture Technology and Sciences, General	19-4011	Agricultural and Food Science Technicians			
		19-1012	12 Food Scientists and Technologists			
10200	Animal Science	11-9013	Farmers, Ranchers, and Other Agricultural Managers	Yes		
		45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	Yes		
		45-2021	Animal Breeders			
10300	Plant Science	11-9013	Farmers, Ranchers, and Other Agricultural Managers	Yes		
		45-1011	First-Line Supervisors of Farming, Fishing, and Forestry Workers	Yes		
10900	Horticulture	11-9013	Farmers, Ranchers, and Other Agricultural Managers	Yes		
		37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers			
10910	Landscape Design and Maintenance	37-1012	First-Line Supervisors of Landscaping, Lawn Service, and Groundskeeping Workers			
		37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation			
11200	Agriculture Business, Sales and Service	11-9013	Farmers, Ranchers, and Other Agricultural Managers	Yes		
		13-1021	Buyers and Purchasing Agents, Farm Products			
11600	Agricultural Power Equipment Technology	49-3041	Farm Equipment Mechanics and Service Technicians			
		49-3042	Mobile Heavy Equipment Mechanics, Except Engines			
30100	Environmental Science	19-2041	Environmental Scientists and Specialists, Including Health			
		25-1053	Environmental Science Teachers, Postsecondary			
40100	Biology, General	11-9121	Natural Sciences Managers			
		19-1029	Biological Scientists, All Other			

Programs Linked to Occupations					
TOP	Program Title	SOC Code	SOC Code Description	Target Occupation?	
		19-1099	Life Scientists, All Other		
		25-2031	Secondary School Teachers, Except Special and Career/Technical Education		
		25-1042	Biological Science Teachers, Postsecondary		
40300	MicroBiology	11-9121	Natural Sciences Managers		
		19-1022	Microbiologists		
		25-1042	Biological Science Teachers, Postsecondary		
41000	Anatomy and Physiology	19-1042	Medical Scientists, Except Epidemiologists		
43000	Biotechnology and Biomedical Technology	19-4099	Life, Physical, and Social Science Technicians, All Other	Yes	
		29-2012	Medical and Clinical Laboratory Technicians	Yes	
		49-9062	Medical Equipment Repairers		
		19-4021	Biological Technicians		
		51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	Yes	
49900	Other Biological Sciences	11-9121	Natural Sciences Managers		
		19-1029	Biological Scientists, All Other		
		19-1099	Life Scientists, All Other		
		25-1042	Biological Science Teachers, Postsecondary		
50100	Business and Commerce, General	11-1021	General and Operations Managers		
		11-2022	Sales Managers		
		11-3011	Administrative Services Managers		
		11-3051	Industrial Production Managers		
		13-1051	Cost Estimators		
		13-1111	Management Analysts		
		11-9199	Managers, All Other		
50200	Accounting	13-2011	Accountants and Auditors		
		13-2082	Tax Preparers		
		43-3031	Bookkeeping, Accounting, and Auditing Clerks	Yes	
		43-3051	Payroll and Timekeeping Clerks	Yes	
		43-4011	Brokerage Clerks		
50500	Business Administration	11-1021	General and Operations Managers		
		11-2022	Sales Managers		
		11-3011	Administrative Services Managers		
		11-3051	Industrial Production Managers		
		13-1051	Cost Estimators		
		13-1111	Management Analysts		
		11-9199	Managers, All Other		
50630	Management Development and Supervision	11-3011	Administrative Services Managers		
		43-1011	First-Line Supervisors of Office and Administrative Support Workers	Yes	
50640	Small Business and Entrepreneurship	11-1021	General and Operations Managers		
		11-2022	Sales Managers		
		11-3011	Administrative Services Managers		
		11-9199	Managers, All Other		

Programs Linked to Occupations						
TOP	Program Title	SOC Code	SOC Code Description	Target Occupation?		
		13-1199	Business Operations Specialists, All Other			
50650	Retail Store Operations and Management	11-1021	General and Operations Managers			
		41-1011	First-Line Supervisors of Retail Sales Workers	Yes		
50800	International Business and Trade	11-1021	General and Operations Managers			
		41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products			
		13-1022	Wholesale and Retail Buyers, Except Farm Products			
		41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products Yes			
50900	Marketing and Distribution	13-1022	Wholesale and Retail Buyers, Except Farm Products			
		13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products			
		41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	Yes		
51100	Real Estate	13-2021	Appraisers and Assessors of Real Estate			
		11-9141	Property, Real Estate, and Community Association Managers	Yes		
		41-9021	Real Estate Brokers			
		41-9022	Real Estate Sales Agents			
51400	Office Technology/Office Computer Applications	43-6011	Executive Secretaries and Executive Administrative Assistants	Yes		
		43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	Yes		
51420	Medical Office Technology	43-6013	Medical Secretaries	Yes		
		31-9094	Medical Transcriptionist			
51440	Office Management	43-1011	First-Line Supervisors of Office and Administrative Support Workers	Yes		
61440	Animation	27-1014	Multimedia Artists and Animators			
61460	Computer Graphics and Digital Imagery	27-1014	Multimedia Artists and Animators			
		27-1024	Graphic Designers			
70100	Information Technology, General	15-1121	Computer Systems Analysts			
	J.	15-1141	Database Administrators			
		15-1199	Computer Occupations, All Other			
70210	Software Applications	43-9021	Data Entry Keyers			
70710	Computer Programming	15-1134	Web Developers	Yes		
		15-1131	Computer Programmers			
		15-1132	Software Developers, Applications			
		15-1133	Software Developers, Systems Software			
80100	Education, General	25-1081	Education Teachers, Postsecondary			
80200	Educational Aide (Teacher Assistant)	25-9041	Teacher Assistants	Yes		
83500	Physical Education	27-2022	Coaches and Scouts			
		27-2021	Athletes and Sports Competitors			
		39-9031	Fitness Trainers and Aerobics Instructors	Yes		
		25-1193	193 Recreation and Fitness Studies Teachers, Postsecondary			
83550	Intercollegiate Athletics	27-2022	Coaches and Scouts			
		27-2021	Athletes and Sports Competitors			
		39-9031	Fitness Trainers and Aerobics Instructors	Yes		
		25-1193	Recreation and Fitness Studies Teachers, Postsecondary			

Programs Linked to Occupations					
TOP	Program Title	SOC Code	SOC Code Description	Target Occupation?	
83570	Aquatics and Lifesaving	39-9032	Recreation Workers	Yes	
83580	Adapted Physical Education	29-1125	Recreational Therapists		
		25-1071	Health Specialties Teachers, Postsecondary		
83600	Recreation	25-1193	Recreation and Fitness Studies Teachers, Postsecondary		
83700	Health Education	27-2022	Coaches and Scouts		
		27-2021	Athletes and Sports Competitors		
		39-9031	Fitness Trainers and Aerobics Instructors	Yes	
		25-1193	Recreation and Fitness Studies Teachers, Postsecondary		
85010	Sign Language Interpreting	27-3091	Interpreters and Translators		
89900	Other Education	NO MATCH			
90100	Engineering, General (requires Calculus) (Transfer)	NO MATCH			
93400	Electronics and Electric Technology	17-3023	Electrical and Electronics Engineering Technicians		
7,0 = 11	8/	17-2072	Electronics Engineers, Except Computer		
		51-2022	Electrical and Electronic Equipment Assemblers		
		49-2092	Electric Motor, Power Tool, and Related Repairers		
		49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment		
		49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment		
		49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay		
94830	Motorcycle, Outboard and Small Engine Repair	49-3051	Motorboat Mechanics and Service Technicians		
7 2000	and the second s	49-3052	Motorcycle Mechanics		
		49-3053	Outdoor Power Equipment and Other Small Engine Mechanics		
		53-5022	Motorboat Mechanics and Service Technicians		
		49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment		
		NO	2700000 ma 20000000 ma 1000000 ma 1000000 ma 1000000 ma 10000000 ma 10000000 ma 10000000 ma 100000000 ma 100000		
219900	Other Public and Protective Services	MATCH			
220100	Social Sciences, General	19-4061	Social Science Research Assistants		
	·	19-3099	Social Scientists and Related Workers, All Other		
		25-2031	Secondary School Teachers, Except Special and Career/Technical Education		
		11-9199	Managers, All Other		
		25-1069	Social Sciences Teachers, Postsecondary, All Other		
220200	Anthropology	11-9199	Managers, All Other		
	1 0/	19-3091	Anthropologists and Archeologists		
		25-1061	Anthropology and Archeology Teachers, Postsecondary		
220220	Archaeology	11-9199	Managers, All Other		
	O/	19-3091	Anthropologists and Archeologists		
		25-1061	Anthropology and Archeology Teachers, Postsecondary		
220400	Economics	11-9199	Managers, All Other		
		19-3011	Economists		
		19-3022	Survey Researchers		

	Programs Linked to Occupations					
ТОР	Program Title	SOC Code	SOC Code Description	Target Occupation?		
		25-1063	Economics Teachers, Postsecondary			
220500	History	25-2031	Secondary School Teachers, Except Special and Career/Technical Education			
		11-9199	Managers, All Other			
		19-3093	Historians			
		25-1125	History Teachers, Postsecondary			
220600	Geography	19-3092	Geographers			
		11-9199	Managers, All Other			
		25-1064	Geography Teachers, Postsecondary			
220700	Political Science	11-9199	Managers, All Other			
		19-3094	Political Scientists			
		25-1065	Political Science Teachers, Postsecondary			
220710	Student Government	11-9199	Managers, All Other			
		19-3094	Political Scientists			
		25-1065	Political Science Teachers, Postsecondary			
493009	Supervised Tutoring	25-1199	Postsecondary Teachers, All Other			
493010	Career Guidance and Orientation					
493013	Academic Guidance					
493014	Study Skills					
493031	Living Skills, Handicapped					
493062	Secondary Education (Grades 9-12) and G.E.D.					
493086	English as a Second Language - Listening and Speaking					
493087	English as a Second Language - Integrated					
493090	Citizenship / ESL Civics					
493200	General Work Experience					



Skills Builder Data

Definition (from

www.cccco.edu): "Skills-builder students are experienced workers who take a limited number of community college courses to maintain and add to skill-sets required for ongoing employment and career advancement.

Although numerous research studies have shown that skillsbuilder students secure significant earnings gains, they are not currently included in state

Median Earnings Change				
		+19.4%		
		N=544		
Disciplines with the highest enrollment	Median % Change	Total N		
Management Development and Supervision	7.9%	97		
Fire Technology	25.6%	67		
Child Development/Early Care and Education	40.8%	54		
Business and Commerce, General	44.6%	49		
Nutrition, Foods, and Culinary Arts	38.7%	41		
Administration of Justice	264.5%	40		
Accounting	27.2%	39		
Agricultural Power Equipment Technology	9.2%	34		
Health Occupations, General	12.6%	33		
Welding Technology	105.7%	27		

accountability metrics. Many practitioners are now calling for skills-builder outcomes to be factored into statewide measures and goals. For example, recognizing skills-builder outcomes was a recurring theme in regional meetings held in early 2015 to inform the Board of Governor's Task Force on Workforce, Job Creation, and a Strong Economy."

The following data is for Merced College, from the 2017 Scorecard Data. The cohort for analysis was 544 students. Overall, Skills Builder students benefited from a 19.4% increase in median earnings after taking courses at the College.

The Demographics table shows the change in median earnings, disaggregated by various demographic groupings. Male students experienced a larger median wage increase than female students (27.1% versus 14.2%). African American students in the cohort experienced a 29.4% increase in their median earnings. This was followed by Hispanic students (25.1% increase), White students (13.9% increase), and Asian students (11.4% increase).



Demographics				
Gender	Median % Change	Total N		
Female	14.2%	274		
Male	27.1%	269		
Age	Median % Change	Total N		
Under 20	366.6%	46		
20-24	54.9%	165		
25-39	16.8%	213		
40 or over	5.6%	120		
Ethnicity/Race	Median % Change	Total N		
African American	29.4%	14		
American Indian/Alaska Native	42.7%	**		
Asian	11.4%	28		
Filipino	317.0%	*		
Hispanic	25.1%	269		
Pacific Islander	347.3%	*		
White	13.9%	211		
N/A Coboot become students				

N/A: Cohort has no students.

Note: The sum of subgroup counts may not add up to the total count due to missing demographic information.

^{*:} Suppressed to protect student Privacy.

CTE Program Completer Internship Placement

Merced College currently provides a number of services aimed at ensuring students are successful in transferring from the community college to the 4-year institution of their choice. Conversely, students attending Merced College with a goal of earning a certificate or associate degree, aimed at technical training needed to directly enter the local workforce, receive very limited assistance to meet their goal of job placement upon completion of their certificate or associate degree. To address this discrepancy, Merced College will institutionalize a Workforce Internship Development Office dedicated to connecting Career Technical Education (CTE) certificate or associate degree recipients to internships with local industry partners. The focus of this office is to provide an opportunity for each CTE program completer to put the skill sets they have developed, to work in a "real world" application. Additionally, the interns will be provided exposure to the culture of the work place that can't be reproduced in a classroom environment. Interns will be exposed to the culture and etiquette of "real world" jobs, and the opportunity to apply the training they have received in their college programs. They will gain experience in establishing relationships with workplace mentors and receive the "field experience" that is so valued by employers. Providing a pathway to internships is a natural progression to the success of all CTE students.

The workplace Internship Development Office will employ a director, Job Developer, and secretarial support staff. The duties of the office would include:

- 1. Industry Partnership Internship Development Relations
- 2. CTE program completer Internship facilitation
- 3. Business mentor partnership development
- 4. Graduate employment follow-up data collection
- 5. Employability training for potential interns (Resume writing, letter of application writing, mock interview training, employment application completion, etc.)
- 6. Coordinate with Career Counseling upon student placement in CTE programs.
- 7. Coordinate services with entities such as EDD, WIB to promote enrollment of the un or under employed.

Agriculture Programs

The Merced College Agriculture Program provides degrees and certificates in Animal Science, Agriculture Business, Crop Science, Landscape/Horticulture, and Mechanized Agriculture Technology. With a clear focus on both degree completion for transfer, and certificate completion for direct entry into a high skill high wage work force, the following prerequisites will need to be considered.

A facility will be provided that affords the square footage required for expansion, as programs are added or expanded, to keep pace with the training needs of this highly diverse industry. Equipment upgrades and faculty training will be crucial to keep pace with the ever evolving precision farming practices of the 21st century. Some examples include: close circuit video and computerized monitoring of livestock and facilities, GPS capable technology such precision spray applications, planting practices, tillage applications, and land leveling technology. Resources are needed to integrate GIS management practices, and global business practices, into the training of agriculture business majors. Additionally, access to the most upto-date computer hardware and software utilized in the agriculture industry must be provided. Water efficiency technologies for both farming and landscape irrigation must be provided as well. The Mechanized Agriculture Program is one of only three in the state of California. As such it is essential to expand industry involvement to insure current equipment and faculty training is made available to keep student training

current with the technology ion the field. Insightful planning and abundant resources are essential to keep pace with the unknown technologies to surly evolve over the next 20 years in the agriculture industry.

Industrial Technology Programs

With the introduction of the UC Merced into the landscape of Merced County, the potential for new industrial manufacturing development is enormous. Two key elements needed to foster this potential growth in manufacturing in Merced County is, great engineering minds produced by students that attend UC Merced, and a skilled technical work force produced by the industrial technology program at Merced College. To provide the skilled technical workforce needed to support this growing industry, a facility with adequate square footage to expand the Industrial Electrical, Industrial Maintenance, and Industrial Automation and the requisite training labs is essential. These facilities must be properly outfitted with the technical training equipment vital in providing each program completer with the skillsets needed to be successful in this highly technical and ever evolving field.

The Automotive program will need equipment and facilities that are expanded into hybrid and electric automobile technology as well as the potential hydrogen power plants future automobiles may employ. As the Computer Aided Drafting (CAD) Mechanical Design Program has expanded in recent years to include reverse engineering and rapid prototyping support services, a close eye must be kept on the evolving software and hardware utilized in this ever-progressing field of study.

Merced College must provide the most current training to insure the program completers are equipped with the skillsets demanded by our local industry. The processing of agriculture products in the San Joaquin Valley relates to a vast number of jobs in an ever-changing industry. Environmental concerns and changing processing requirements create constant change in processing plants infrastructure. Additionally, manufacturing products from various metals is also growing in the central valley.

The Merced College Welding Technology program will need constant upgrades to keep pace with these industries. In addition to the current welding program offerings, special attention must be given to both heavy pipe certification as well as producing program completers with a high degree of expertise in purge welding technology. These two skilled certification areas, as well as all the aforementioned program areas, will lead to providing high wage positions for the program completers, and help insure that manufacturing companies will choose Merced County as the best place to locate their companies due to the availability of highly trained skilled workforce.



Planning Assumptions

Following the in-depth Discovery Phase, quantitative data gathered from internal and external scans to form the College Data Profile were reviewed, and qualitative data from internal and external stakeholders were compiled to determine key themes and establish planning assumptions for EMP goal-setting. Synthesis and analysis of these data resulted in the following key planning assumptions:

- The Merced CCD Region will experience growth in the future
- A return to Base FTES (9754 FTES) in 2018-19 is critical for State funding
- Enrollment management can improve efficiency, access, and success
- A slow annual FTES growth of 1.8% per year is reasonable
- Fiscal stability, and acquiring new resources through diversification (grants, foundation, etc. will be important
- Distance Education presents greater opportunities
- Opportunity is present to serve the working adult population
- Los Banos site has opportunities for growth
- New/innovative programs and program packaging will be important to acquire and serve new populations
- Opportunities exist with new and revitalized partnerships with K-12, universities, and employers
- Current Higher Education practices (streamlined matriculation processes; First Year Experience; Guided Pathways; stacked credentials) could further increase access and success
- More diversity, esp. among full-time certificated staff is needed
- Long-term planning is needed for safety and facilities needs
- Improved data access, technology solutions, and human resources practices would streamline workload, support integrated planning and improve effectiveness
- Professional development, esp. associated with technology advancements is needed

The EMP Task Force convened in an all-day session to again review the data that had been collected, and discussed the identified planning assumptions. Key themes that emerged from this work were organized into broad goals and five-year objectives that would frame the work of the College for the next several years. Needs of Merced College, including its Los Banos education center were addressed. Four overarching Desired Outcomes were identified to provide the framework for goal setting. Six goals and 26 objectives were identified for the five-year EMP. Of the 26 objectives, six were identified as high priority items to commence in the first year of the EMP, and these are so indicated in the document. The highest priority identified was Enrollment Management – both for its role in student access and success, and for its impact on the long-range financial stability of the District.



Growth and Future Capacities

Growth Forecast

Annually, the State Chancellor's Office generates a long-range forecast for growth of WSCH (weekly student contact hours) and Headcount. The forecast extends through the year 2025. The data is for fall semesters. The data shows that the forecast implies an annual growth rate of 1.73% for enrollments (headcount) and 1.83% for WSCH. The State Chancellor's Office growth forecast is based on population growth, participation rates (See Appendix C - Student Participation Rate) and other internal and external factors.

Fall Semester	Enrollment	WSCH
2017	11,571	137,485
2018	11,772	140,060
2019	11,977	142,688
2020	12,185	145,359
2021	12,397	148,084
2022	12,613	150,864
2023	12,833	153,495
2024	13,056	156,162
2025	13,283	158,877
Annual Growth Rate	1.74%	1.83%

The following table shows the actual headcount and FTES through 2017 and projections to the 2028-2029 academic year. The numbers for 2017-2018 include an estimate from the College's Office of Institutional Research for spring 2018 FTES.

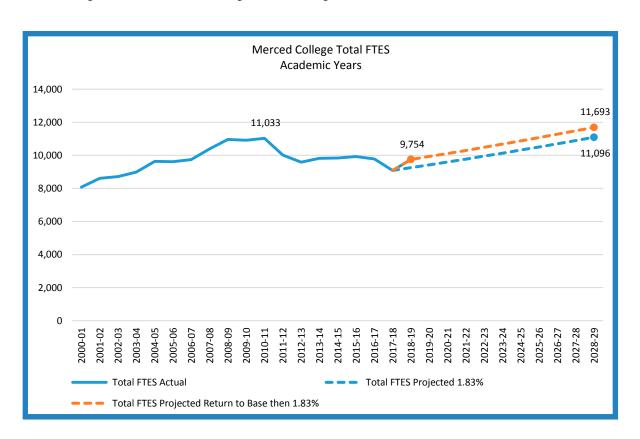
The consulting team has created two growth models for future FTES growth.

- 1. Growth at 1.83%. This will be referred to as the "growth at 1.83%."
- 2. Return to base level of FTES in 2018-2019, then growth at 1.83% annually. This will be referred to as the "return to base then 1.83% annual growth."

The table shows the two forecast models.

His	tory		Projections	
Academic Year	FTES	Academic Year	Growth at 1.83%	Return to Base then 1.83% Annual Growth
2000-2001	8,076	2017-2018	9,090	9,090
2001-2002	8,610	2018-2019	9,256	9,754*
2002-2003	8,717	2019-2020	9,425	9,933
2003-2004	8,991	2020-2021	9,598	10,114
2004-2005	9,639	2021-2022	9,773	10,299
2005-2006	9,616	2022-2023	9,952	10,488
2006-2007	9,743	2023-2024	10,134	10,680
2007-2008	10,387	2024-2025	10,320	10,875
2008-2009	10,960	2025-2026	10,509	11,074
2009-2010	10,911	2026-2027	10,701	11,277
2010-2011	11,033	2027-2028	10,897	11,483
2011-2012	10,014	2028-2029	11,096	11,693
2012-2013	9,592			
2013-2014	9,818			
2014-2015	9,843			
2015-2016	9,925			
2016-2017	9,783			
2017-2018	9,090			
		* Base level of FTE	S	

The following chart shows the FTES (actual and projected) from the previous table. Two dashed lines, one with 1.83% growth; the other returning to base, then grow at 1.83%



The following table shows the FTES growth forecasts by term, based on the two different growth models.

Merced College Projected FTES									
Year	Summer 1.83%	Summer Return to Base +1.83%	Fall 1.83%	Fall Return to Base +1.83%	Spring 1.83%	Spring Return to Base +1.83%	Total 1.83%	Total Return to Base +1.83%	
2017-18	754		4,511		3,825		9,090		
2018-19	<i>768</i>	809	4,593	4,840	3,895	4,105	9,256	9,754	
2019-20	782	824	4,677	4,929	3,966	4,180	9,425	9,933	
2020-21	796	839	4,763	5,019	4,039	4,256	9,598	10,114	
2021-22	811	854	4,850	5,111	4,113	4,334	9,773	10,299	
2022-23	825	870	4,939	5,205	4,188	4,413	9,952	10,488	
2023-24	840	886	5,029	5,300	4,265	4,494	10,134	10,680	
2024-25	856	902	5,121	5,397	4,343	4,576	10,320	10,875	
92025-26	872	918	5,215	5,496	4,422	4,660	10,509	11,074	
2026-27	<i>887</i>	935	5,310	5,596	4,503	4,745	10,701	11,277	
2027-28	904	952	5,408	5,699	4,586	4,832	10,897	11,483	
2028-29	920	970	5,507	5,803	4,669	4,921	11,096	11,693	

Space Needs Analysis

The State Chancellor's Office tracks (and sometimes funds) five categories of campus facilities space. These are: classroom (lecture), laboratory, office, library and AV/TV (instructional media). These are the key instructional and support spaces on any college campus.

Facilities Planning

- ► Five-Year Capital Construction Plan
- Space Inventory
- Capacity to Load Ratios (Cap/Loads)
- Space Needs Calculations (Title 5)

Five-Year Capital Construction Plan

The five key space categories tracked by the State Chancellor's Office are included in this report. The report also includes all of the future building projects for the College. Projects are added to the report by submitting first an IPP (Initial Project Proposal) and subsequently an FPP (Final Project Proposal). When state capital construction funds are available, the FPPs are scored by the State Chancellor's Office to determine which will be funded. Historically, each college (and each educational center) is entitled no more than one project per year for state funding.

Space Inventory

On the FUSION system, the Space Inventory (Report 17) lists all of the spaces at the College. Each space includes additional information such as ASF, Stations, Room Code, TOP Code, etc.

Capacity to Load Ratios

Cap/Load Ratio = Space you HAVE ÷ Space you NEED

Have = ASF* of the space you have Need = Space need as determined by Title 5

Space Needs

Title 5 \$57020-\$57032 of the California Code provides formulae for each of the five key space categories, to determine space needs. Those formulae are as follows:

Space Category	Title 5 Formula							
Lecture	.429 ASF per 100 WSCH .473 ASF per 100 WSCH for colleges with WSCH below 140,000							
Laboratory	[Lab Factor ⁱ]* 100 WSCH							
Office	140 ASF per FTEF							
	Base ASF Allowance	3,795 ASF						
	ASF 1st 3,000 DGE	3.83 ASF						
Library	ASF/3001-9,000 DGE	3.39 ASF						
	ASF>9,000	2.94 ASF						
	Base ASF Allowance	3,500 ASF						
A 3 7 // T 3 7	ASF 1st 3,000 DGE	1.50 ASF						
AV/TV	ASF/3001-9,000 DGE	0.75 ASF						
	ASF>9,000	0.25 ASF						
† Lab Factors vary by To	OP Code							

Merced College Space Needs Analysis

The following table shows the current space inventory and the pending projects for each campus. All the numbers (except percentages) are in assignable square feet (ASF). The Qualification columns indicate the space that the College qualifies for according to Title 5 of the Education Code. These tables use the "1.83% annual growth" model for FTES and assume that student headcount and FTEF will grow at the same rate.

Merced College Space Needs Projection – Merced Campus (1.83% Annual Growth)									
				Future 1	Projects				
Merced Campus	Cap/Load ⁴	Inventory 2017	Qualification 2017	Ag Science and Ind. Tech. Complex	Vocational Complex Renovation/ Expansion	New Inventory	Qualification 2028	Net Space Need	
Classroom	120%	40,869	34,058	(661)	(2,352)	37,856	41,581	3,725	
Laboratory	84%	93,871	111,751	15,911	6,705	116,487	136,437	19,950	
Office	85%	50,232	59,096	2,445	1,794	54,471	72,151	17,680	
Library	121%	46,756	38,641	-	-	46,756	47,177	421	
AV/TV	62%	8,987	14,495	-	-	8,987	17,697	8,710	
Net Space Needs	(ASF)			17,695	6,147			50,485	

⁴Capacity to load ratio measures how much space a college has divided by how much it needs. The needed space is determined by formulae in Title 5 of the California Education Code.

Merced College Space Needs Projection – Los Banos Campus (1.83% Annual Growth)									
				Future 1	Projects				
Los Banos Campus	Cap/Load	Inventory 2017	Qualification 2017	Library Media Faculty Library Resource Remodel Center		New Inventory	Qualification 2028	Net Space Need	
Classroom	171%	12,142	7,101	-	-	12,142	8,669	(3,473)	
Laboratory	102%	10,120	9,922	-	-	10,120	12,113	1,993	
Office	46%	4,974	10,813	3,340	2,788	11,102	13,202	2,100	
Library	61%	2,342	3,839	3,988	-	6,330	4,687	(1,643)	
AV/TV	25%	446	1,784	1,700	-	2,146	2,178	32	
Net Space Needs	(ASF)			9,028	2,788			(991)	

The following tables use the "return to base then 1.83% growth" model for FTES and assume that student headcount and FTEF will grow at the same rate.

	Merced College Space Needs Projection – Merced Campus (Return to Base then 1.83% Annual Growth)										
				Future 1	Projects						
Merced Campus	Cap/Load ⁵	Inventory 2017	Qualification 2017	Ag Science and Ind. Tech. Complex	Vocational Complex Renovation/ Expansion	New Inventory	Qualification 2028	Net Space Need			
Classroom	120%	40,869	34,058	(661)	(2,352)	37,856	44,724	6,868			
Laboratory	84%	93,871	111,751	15,911	6,705	116,487	146,752	30,265			
Office	85%	50,232	59,096	2,445	1,794	54,471	77,606	23,135			
Library	121%	46,756	38,641	-	-	46,756	50,744	3,988			
AV/TV	62%	8,987	14,495	-		8,987	19,035	10,048			
Net Space Needs	(ASF)			17,695	6,147			74,304			

	Merced College Space Needs Projection – Los Banos Campus (Return to Base then 1.83% Annual Growth)									
Los Banos Campus	Cap/Load	Inventory 2017	Qualification 2017	Future Library Media Faculty Resource Center	Projects Library Remodel	New Inventory	Qualification 2028	Net Space Need		
Classroom	171%	12,142	7,101	-	-	12,142	9,325	(2,817)		
Laboratory	102%	10,120	9,922	-	-	10,120	13,029	2,909		
Office	46%	4,974	10,813	3,340	2,788	11,102	14,200	3,098		
Library	61%	2,342	3,839	3,988	-	6,330	5,042	(1,288)		
AV/TV	25%	446	1,784	1,700	-	2,146	2,343	197		
Net Space Needs	(ASF)			9,028	2,788			2,098		

⁵ Capacity to load ratio measures how much space a college has divided by how much it needs. The needed space is determined by formulae in Title 5 of the California Education Code.



Four overarching Desired Outcomes were identified to provide the framework for the Merced College EMP Goals and Objectives, as follows:

- Increased student access and success
- Current, relevant, well-designed educational programs responsive to student and community needs, provided in user-friendly pathways and delivery modes
- Efficient and effective systems and processes leading to integrated planning and institutional effectiveness
- Robust external partnerships that enhance resources and support the above outcomes.

The Board-adopted goals and objectives comprise six five-year goals, each with several objectives to be carried out across the five years. Each goal has been assigned an accountable Cabinet Member to lead that particular goal area. The EMP's six goals and 26 objectives are outlined below. Those objectives noted with an asterisk (*) were identified as high priority by the EMP Task Force.

Goal One: Enrollment Management and Student Success

[Accountable Cabinet Member: VP of Instruction]

- 1.0 Employ enrollment management strategies to support student success, progression, and completion/transfer. *Objectives*
 - *1.1 Develop guided pathways within metamajors, including stacked credentials, and in connection with K-12 and university partners.
 - *1.2 Strengthen scheduling to provide effective, efficient, student-centered course offerings, delivered through structured time blocks that also maximize FTES generation.
 - *1.3 Design and develop innovative programs and expand educational programming to meet workforce needs (esp. in Ag, IT, and CTE).
 - 1.4 Provide just-in-time and advanced technical training to meet workforce needs.
 - 1.5 Expand coursework and certificate and degree programs at Los Banos Campus to align with area workforce needs
 - *1.6 Create innovative packaging and delivery of programs (e.g. cohort approaches; coordinated night, weekend, & summer programs; Fast Track; etc.) and expand distance education offerings.
 - 1.7 Implement strategies to support student success, progression, and completion/goal attainment.

Goal Two: Student Access

[Accountable Cabinet Member: VP, Student Services]

2.0 Increase student access and streamline entry processes.

Objectives

- 2.1 Support student goal identification and development of individualized student education plans.
- 2.2 Streamline registration / matriculation processes.

- 2.3 Reach new populations of students (e.g. in outer areas of District; new growth communities; incumbent adult workforce; non-traditional; AB288; more high school students; incarcerated; etc.).
- 2.4 Create First Year Experience program which integrates campus life, career counseling, educational planning, and student success strategies.

Goal Three: Resource Development and Allocation

[Accountable Cabinet Member: VP, Administrative Services]

- 3.0 Maximize future financial stability via data-driven, long-range, integrated fiscal planning. *Objectives*
 - 3.1 Implement integrated, data-driven business practices and sustainable resource development and allocation.
 - 3.2 Align resources with planning processes for long-range financial planning and fiscal management.
 - 3.3 Further develop the Foundation with structure, friend-raising, and fundraising.
 - 3.4 Develop proactive funding diversification via the Foundation, grants, and private sector partnerships (see also Goal 5.0).

Goal Four: Safety and Facilities Planning

[Accountable Cabinet Member: VP, Administrative Services]

- 4.0 Strengthen campus safety and align facilities and technology planning with educational master planning. Objectives
 - 4.1 Address campus safety issues across all campus locations.
 - 4.2 Ensure facilities and technology planning supports long-range educational planning.
 - 4.3 Proactively pursue facility and technology funding through both state and diversified funding sources (see also Goal #3).

Goal Five: Partnership

[Accountable Cabinet Member: VP of Instruction]

5.0 Strengthen existing and create new partnerships with educational institutions, employers, and government and community agencies to support EMP Goals.

Objectives

- 5.1 Revitalize Program Advisory Committees.
- 5.2 Strengthen University partnerships.
- 5.3 Strengthen K-12 partnerships.
- 5.4 Partner with Employers, Foundations, Community groups and Government agencies (city, county, state).

Goal Six: Institutional Effectiveness, Technology, and Systems Design

[Accountable Cabinet Member: Chief Technology Officer]

6.0 Design streamlined, integrated technological and human systems that work effectively towards desired outcomes.

Objectives

- *6.1 Strengthen integrated planning.
- *6.2 Automate processes and strengthen data access and use at various levels of the institution; employ technology effectively; provide training.
- 6.3 Refine Committee structure to support institutional goals, the EMP, and student success.
- 6.4 Develop long-range staffing and professional development plans.

Crosswalk to ACCJC – WASC Recommendations

The Accrediting Commission of Community and Junior Colleges of the Western Association of Schools and Colleges (ACCJC-WASC) recently conducted its site visit for reaffirmation of Merced College's accreditation. As the EMP was developed, a review of the recommendations from ACCJC was completed to ensure their presence in the five-year EMP. A crosswalk was developed displaying the results of this review. The crosswalk can be found in Appendix D – Merced College Educational Master Plan 2018-2023 - Five-Year Goals and Objectives with Crosswalk to ACCJC-WASC Recommendations and CCCCO Vision for Success Goals.

Crosswalk to California State Vision 10-year Goals

Additionally, a crosswalk was completed comparing the Merced College Five-Year EMP Goals and Objectives with those of the California Community College Chancellor's Office (CCCCO) Vision and 10-year Goals. This crosswalk is displayed as well in the chart in Appendix D – Merced College Educational Master Plan 2018-2023 - Five-Year Goals and Objectives with Crosswalk to ACCJC-WASC Recommendations and CCCCO Vision for Success Goals.





NEXT STEPS

Following the development of the five-year EMP Goals and Objectives, the following next steps are planned:

- The EMP will be operationalized through a Strategic Implementation Plan. This plan will be developed beginning Spring 2018 and completed by mid-Fall 2018, concurrent with the commencement of the first year of the EMP.
- The Educational Master Planning Committee (EMPC) will provide oversight for monitoring progress on the five-year EMP on an annual basis.
- Regular reports will be provided to the Board of Trustees on progress of the Goals and Objectives in the EMP.
- Any new initiatives that arise over time will be considered in relation to the five-year plan, with adjustments made as required.
- The Facilities Master Planning effort underway will be aligned with the EMP.

TIMELINES



Recommendations

Several recommendations are provided below for follow-up as the new EMP is rolled out and the operational Strategic Implementation Plan is being developed.

Development of Administrative Procedure

Development of an Administrative Procedure is needed to clarify accountability and processes to ensure monitoring and evaluation of the EMP and Strategic Implementation Plan each year. Additionally, a process should be identified for how adjustments will be made to the plans based on progress evaluation, unplanned internal or external changes, and new initiatives that may emerge.

Integrated Planning and Program Review Cycle

With the adoption of the Educational Master Plan, the college's Integrated Planning and Program Review Cycle should be reviewed and refined as needed. In specific, more attention to the alignment of resource allocation based on the EMP is recommended. Additionally, both the annual and five-year planning processes should be reflected in the model, with narrative provided describing each process.

Team and Committee Structure

Based on feedback from stakeholders during the Discovery Phase, an examination of the college's team and committee structure is warranted to accomplish the following:

- Consider streamlining and refining the structure, possibly reducing the number of committees, and identify annual work plans for each committee in alignment with the EMP and other work of the College.
- Consider structure and processes that support more cross-functional dialogue and integrated work processes (esp. between instruction and student services).
- Consider a mechanism to utilize more short-term task forces or project teams with defined purposes that have set timelines and established deliverables.

New Executive Staff Orientation

Two new executives - Vice President of Instruction, and Associate Vice President of Human Resources -are being hired to begin in the first year of the EMP. It is recommended that when these two new executive staff are hired they be provided with an in-depth orientation to the EMP development process, planning assumptions, EMP goals and objectives, and the crosswalks to ACCJC recommendations and State ten-year goals.

APPENDICES

Appendix A – EMP Task Force Purpose Statement.

Team Purpose

The Purpose of the EMP Task Force is to serve as a working group for development of the Merced College 2018-2023 Educational Master Plan (EMP). The EMP Task Force will:

- Ensure representation of all areas of the College in developing the EMP;
- Work in collaboration with the CBT Consultant Team, providing input and feedback throughout the process of the plan's development;
- Support alignment of the EMP with the College's Mission, Vision, and Values;
- Keep students, student success, and service to the Merced College region at the center of discussion during EMP development;
- Exemplify quality employee engagement, advocate for additional internal stakeholder engagement, and serve as a communication body to the rest of the internal Merced College community, including the Los Banos Campus; and
- Abide by team guidelines.

Team Membership Composition

Name	Position	Employee Group	
Dr. Mike McCandless	VP Student Services & Team	Management	
	Chair		
Dr. Baba Adam	Dean, Institutional Effectiveness	Management	
Dr. Doug Kain	Dean, Science, Math &	Management	
	Engineering		
Arlis Bortner	Director ITS/Chief Technology	Management	
	Officer		
Sylvia Ruano	Director, EOPS	Management	
Andre Urquidez	Senior Accounting Manager	Management	
Dr. Brenda Latham	Dean, Los Banos Campus	Management	
Diana Romero	Admissions & Records	CSEA	
	Coordinator		
Jeanette Martin	Business Applications Analyst,	CSEA	
	ITS		
Leo Lopez	Police Officer	Classified Senate	
Tom Canepa	Education Technology Analyst,	Classified Senate	
	Blackboard Support		
Mark Doiel	Music Professor	Academic Senate	
Bryan Tassey	Landscape Horticulture Professor	MCFA	

Darol Fishman	Mechanized Ag Professor	MCFA
Julie Clark	Math Professor	Academic Senate
Soua Lee	Counselor	MCFA
Jose Medina	Student	Student

Team Recorder and Resource Persons

Kristi Wolf, Assistant to the Dean of Institutional Effectiveness, will serve as recorder.

Additional College faculty and staff may be called upon as needed to serve as resources to the EMP Task Force as it progresses in its work.

Team Make-up / Criteria

- 1. Vice President of Student Services (serves as team leader and meeting convener).
- Dean of Institutional Effectiveness.
- 3. Membership will include representatives from both academic and student services areas, both teaching and counseling faculty, and both full and part-time.
- 4. Membership will include administrative, mid-management, faculty, classified/support staff, and student representatives (or a designated liaison)
- 5. Membership will include a diverse (gender, age, ethnicity) group of representatives, including both those who are long-standing employees and those in their positions less than five years.
- 6. Representative from Los Banos Campus.
- 7. A non-member Team Recorder will record progress of the EMP Task Force
- 8. Non-member Resource Persons may be called upon to support the team's work

Meeting Schedule

The committee will convene September 21, 2017 and will meet monthly on designated Thursdays, 3-4:30 pm. The project is scheduled to complete by April 2018. The tentative schedule of meetings follows (* = CBT site visit date).

*September 21, 2017	*February 8, 2018
*October 26, 2017	*March 9, 2018 (full day; goal-setting)
*November 16, 2017	
December 14, 2017	

How Work Is Communicated

- 1. Team members will communicate with colleagues between meetings.
- 2. Team updates will be provided to the College Council & Academic Senate.
- 3. Team progress will be posted to the College's EMP web page on a regular basis.

Appendix B - Program Awards

			Merced Col	llege Progra	um Awards 2	2012-2017				
Discipline	AA	AAT	AS	AST	Cert. (12-18)	Cert. (18-30)	Cert. (30-60)	Cert. (60+)	Cert. of Completio n	Grand Total
ACTG	127	0	0	0	0	0	21	0	0	148
ADST	18	0	0	0	0	0	11	0	1	30
AGBS	38	0	42	9	0	0	0	0	0	89
AGRI	22	0	5	0	0	2	0	0	0	29
ANSC	13	0	18	0	0	0	1	0	0	32
ANTH	15	6	0	0	0	0	0	0	0	21
AOM	163	0	0	0	0	0	109	0	3	275
ART	45	22	0	0	0	0	0	0	1	68
Arts & Humanities	14	0	0	0	0	0	0	0	0	14
AUTO	37	0	0	0	0	69	6	0	1	113
BIOL	244	0	24	0	0	0	0	0	0	268
Biotechnology	0	0	14	0	3	2	0	0	0	19
BUS	195	0	0	274	0	0	8	0	0	477
CHEM CLDV	205	0	15	1 61	0	0	0 27	0	0	16
CCDV	205 4	0 58	0	0	0	0	0	0	0	293 62
CORR	27	0	0	0	0	0	2	0	0	29
CPSC	0	0	20	22	0	0	0	0	0	42
CRIM	178	0	0	203	0	0	7	0	0	388
CROP	7	0	5	0	0	0	0	0	0	12
CSU Gen Ed Breadth	0	0	0	0	0	0	505	0	0	505
DRAM	6	5	0	0	0	0	0	0	0	11
DRFT	18	0	7	0	0	26	19	0	1	71
ELCT	103	0	0	0	0	0	133	0	0	236
ENGL	18	23	0	0	0	0	0	0	0	41
ENGR	15	0	11	0	0	0	0	0	0	26
FIRE	38	0	0	0	0	0	15	0	0	53
FREN	1	0	0	0	0	0	0	0	0	1
General Studies	57	0	0	0	0	0	0	0	0	57
GEOL	0	0	4	4	0	0	0	0	0	8
GERM	5	0	0	0	0	0	0	0	0	5
HIST	32	47	0	0	0	0	0	0	0	79
HMSV	53	0	0	0	0	0	2	0	0	55
Horse Mgmt	0	0	1	0	0	0	0	0	0	1
HUM	2	0	0	0	0	0	0	0	0	2
HVAC	16	0	0	0	0	0	37	0	2	55
IGETC	0	0	0	0	0	0	68	0	0	68
INDT	7	0	0	0	0	0	6	0	1	14
Int'l Studies	80	0	0	0	0	0	0	0	0	80
KINE	0	25	0	0	0	0	0	0	0	25
Lab Technology	0	0	1	0	0	0	0	0	0	1
LAND	18	0	17	0	0	0	6	0	0	41
LBST	67	6	0	0	0	0	0	0	0	73
Life Science	7	0	0	0	0	0	0	0	0	7
MATH	17	0	0	61	0	0	0	0	0	78
MDSE	4	0	0	0	0	0	0	0	0	4
MECH	4	0	16	0	0	44	165	0	2	231
MGMT	19	0	0	0	0	0	3	0	0	22
MKTG	0	0	0	0	0	0	1	0	0	1
MUS	15	1	0	0	0	0	0	0	0	16
NATS	17	0	0	0	0	0	0	0	0	17
NUTR	32	0	0	0	0	10	0	0	0	43
PHED	21	0	0	0	0	0	0	0	0	21
PHIL PHOT	7	0	0	0	0	0 2	0	0	0	5 9
PHSC	7	0	0	0	0	0	0	0	0	7
11130	/	U	U	U	U	U	U	U	U	/

			Merced Co	llege Progra	ım Awards 2	2012-2017				
PHYS	0	0	7	34	0	0	0	0	0	41
PLGL	6	0	0	0	0	0	0	0	0	6
PSYC	243	546	0	0	0	0	0	0	0	789
RADT	0	0	83	0	0	0	0	84	3	170
REAL	2	0	0	0	0	0	0	0	1	3
REGN	0	0	318	0	0	0	0	0	0	318
SOC	776	8	0	0	0	0	0	0	0	784
SONO	0	0	0	0	0	0	9	0	0	9
SPAN	26	7	0	0	0	0	0	0	0	33
Transfer Studies	15	0	0	0	0	0	0	0	0	15
Univ. Studies	9	0	0	0	0	0	0	0	0	9
VOCN	78	0	0	0	0	0	134	0	0	212
WELD	22	0	0	0	0	18	0	0	2	42
Grand Total	3,217	757	608	669	3	173	1,295	84	19	6,825
Source: Merced College O	Source: Merced College Office of Institutional Research									

Appendix C - Student Participation Rate

The student participation rate shows the number of students who attend classes at the College per 1,000 members of the local community (between the ages of 18 and 65). Population data was not available for all of the cities and towns from which students come to the College. The following table lists all of the cities and towns from which 100 or more students attended at least one class in the fall 2017 semester.

The student participation rates are highest in Merced City, Dos Palos, Livingston, Atwater and Los Banos. With the campus in Los Banos, there is likely an opportunity to increase the student participation there.

	Merced College Participation Rate Analysis - Fall 2017										
	Enrollment Population 18-65		Student Participation Rate (per 1,000 population)								
Merced	3,964	49,061	81								
Atwater	1,332	23,621	56								
Los Banos	1,258	31,018	41								
Turlock	523	58,819	9								
Livingston	497	8,195	61								
Winton	386	n/a	-								
Chowchilla	384	13,768	28								
Delhi	253	n/a	-								
Dos Palos	228	3,146	72								
Planada	175	n/a	-								
Modesto	157	139,611	1								
Gustine	125	3,322	38								
Hilmar	120	n/a	-								
Newman	105	6,574	16								

Source: Population numbers are from the U.S. Census Quickfacts July 1, 2016 https://www.census.gov; enrollment data is from Merced College Office of Institutional Research

Appendix D – Merced College Educational Master Plan 2018-2023 - Five-Year Goals and Objectives with Crosswalk to ACCJC-WASC Recommendations and CCCCO Vision for Success Goals

(Revised March 20, 2018)

MERCED COLLEGE EDUCATIONAL MASTER PLAN 2018-2023

Desired outcomes of the Educational Master Plan:

- Increased student access and success
- Current, relevant, well-designed educational programs responsive to student and community needs, provided in user-friendly
 pathways and delivery modes
- Efficient and effective systems and processes leading to integrated planning and institutional effectiveness
- Robust external partnerships that enhance resources and support the above outcomes

GOAL Level 1 (L-1) [Accountable Cabinet Member]	OBJECTIVES Level 2 (L-2)		ACCOUNTABLE MANAGER	ACCJC- WASC Rec Crosswalk	CCCCO Vision for Success Crosswalk
	*=High Priority				

	GOAL 1:	ENROLLM	ENT MANAGEMENT &	STUDENT SUC	CESS	
1.0	Employ enrollment management strategies to support student success, progression, and completion/transfer [Accountable Cabinet Member: VP of Instruction]	1.1 *	Develop guided pathways within metamajors, including stacked credentials, and in connection with K-12 and university partners	Director of Guided Pathways & FYE	Rec: 1, 2, 3 and 5	Goal: 1, 2, 3, 4
		1.2 *	Strengthen scheduling to provide effective, efficient, student-centered course offerings, delivered through structured time blocks, that also maximize FTES generation	Dean of Math, Science, and Engineering		
		1.3 *	Design and develop innovative programs and expand educational programming to meet workforce needs (esp in Ag. IT, and CTE)	Dean of Career Technical Education		

GOAL 1:	ENROLLM	ENT MANAGEMENT & S	STUDENT SUCC	CESS	
	1.4	Provide just-in-time and advanced technical training to meet workforce needs	Dean of Economic and Workforce Development, Community Services, and Non- Credit		
	1.5	Expand coursework and certificate and degree programs at Los Banos Campus to align with area workforce needs	Dean of Los Banos Campus		
	1.6*	Create innovative packaging and delivery of programs (e.g. cohort approaches; coordinated night, weekend, & summer programs; Fast Track; etc.) and expand distance education offerings	Dean of Los Banos Campus		
	1.7	Implement strategies to support student success, progression, and completion/goal attainment	Dean of Student Equity and Success		

	GOAL 2: STUDENT ACCESS								
2.0	Increase student access and streamline entry processes [Accountable Cabinet Member: VP, Student Services]	2.1	Support student goal identification and development of individualized student education plans	Dean of Student Services	Rec: 1 and 2	Goal: 3, 5, 6			
		2.2	Streamline registration / matriculation processes	Dean of Student Services					
		2.3	Reach new populations of students (e.g. in outer areas of District; new growth communities; incumbent adult workforce; non-traditional; AB288; more high school students; incarcerated; etc.)	Dean of Student Equity and Success					
		2.4	Create First Year Experience program which integrates campus life, career counseling, educational planning, and student success strategies	Director of Guided Pathways & FYE					

	GOAL 3: RESOURCE DEVELOPMENT AND ALLOCATION						
3.0	Maximize future financial stability via data-driven, long-range, integrated fiscal planning [Accountable Cabinet Member: VP, Admin. Services]	3.1	Implement integrated, data- driven business practices and sustainable resource development and allocation	Dean of Institutional Effectiveness	Rec: 7	Goal: 1, 2	
		3.2	Align resources with planning processes for long-range financial planning and fiscal management	Director of Business and Fiscal Services			
		3.3	Further develop the Foundation with structure, friend-raising, and fundraising	Exec. Director of the Foundation			
		3.4	Develop proactive funding diversification via the Foundation, grants, and private sector partnerships (see also Goal 5.0)	Exec. Director of the Foundation			

GOAL 4: SAFETY AND FACILITIES PLANNING							
4.0	Strengthen campus safety and align facilities and technology planning with educational master planning [Accountable Cabinet Member: VP, Admin. Services]	4.1	Address campus safety issues across all campus locations	Director of Risk and Environmental Safety	Rec: 7	Goal: 1, 4	
		4.2	Ensure facilities and technology planning supports long-range educational planning	Director of ITS/Chief Technology Officer			
		4.3	Proactively pursue facility and technology funding through both state and diversified funding sources (see also Goal #3)	Director of Business and Fiscal Services			

	GOAL 5: PARTNERSHIPS						
5.0	Strengthen existing and create new partnerships with educational institutions, employers, and government and community agencies to support EMP Goals [Accountable Cabinet Member: VP of Instruction]	5.1	Revitalize Program Advisory Committees	Dean of Career Technical Education		Goal: 1, 2, 4, 5, 6	
		5.3	Strengthen K-12 partnerships	Director of Student Outreach			
		5.4	Partner with Employers, Foundations, Community groups and Government agencies (city, county, state)	Director of Student Outreach			

	GOAL 6: INSTITUT	TONAL EFF	FECTIVENESS, TECHNO	logy, and sys'	TEMS DESIG	N
6.0	Design streamlined, integrated technological and human systems that work effectively towards desired outcomes [Accountable Cabinet Member: Chief Technology Officer]	6.1 *	Strengthen integrated planning	Dean of Institutional Effectiveness	Rec: 1	Goal: 1, 2, 3, 5
		6.2 *	Automate processes and strengthen data access and use at various levels of the institution; employ technology effectively; provide training	Director of Enterprise Application Services		
		6.3	Refine Committee structure to support institutional goals, the EMP, and student success	Dean of Social Sciences, Humanities, and Fine Arts		
		6.4	Develop long-range staffing and professional development plans	Associate VP of Human Resources		

Appendix E – Glossary of Terms

- **Assignable Square Footage (ASF)** The area of spaces available for assignment to an occupant (excepting those spaces defined as circulation, custodial, mechanical and structural areas).
- **Capacity to Load Ratio** (**Cap/Load**) This is the ratio of space the College has divided by the space it needs (according to Title 5 space standards). A Cap/Load ratio above 100% means the College has a surplus of space in that category. A Cap/Load ratio below 100% indicates a need for more space. E.g., if the college has 120,000 ASF of classroom space and Title 5 Standards show that the College qualifies for 100,000 ASF, the Cap/Load ratio (HAVE ÷ NEED) = 120,000 ÷ 100,000 = 120%.
- **Classroom Space (also referred to as lecture space)** Rooms used for classes that do not require special purpose equipment for student use.
- **FTEF (Full-Time equivalent faculty)** Total full-time equivalents for all adjunct and full-time faculty. E.g., six adjunct faculty members, each teaching one-quarter of a full teaching load, is equal to 1.5 FTEF.
- **FTES** (Full-Time equivalent students) Total hours attended by one or more students, divided by 525. One FTES is equal to one student taking a course load of 15 units for two semesters.
- **Gross Square Footage (GSF)** The total square footage of a building, measured at the exterior of the walls, including all interior spaces.
- **Headcount** the number of individual people in a class or enrolled at the College
- **Instructional Media Space (also referred to as AV/TV space)** Rooms used for the production and distribution of audio/visual, radio and TV materials.
- **Laboratory Space** Rooms used primarily by regularly scheduled classes that require special-purpose equipment for student participation, experimentation, observation or practice in a field of study.
- **Library Space** Rooms used by individuals to study books or audio/visual materials. Rooms used to provide shelving for library or audio/visual materials. Rooms that support these uses such as book processing rooms, circulation desk, etc.
- Office Space includes faculty, staff and administrator offices as well as all student services spaces (e.g., A&R, Financial Aid, etc.).
- **TOP Codes (Taxonomy of Programs)** A system of numerical codes used at the state level to collect and report information on programs and courses, in different colleges throughout the state, that have similar outcomes.
- **WSCH** (weekly student contact hours) The number of class contact hours a class is scheduled to meet times the number of students. E.g., if a class meets three hours per week, and has 30 students enrolled, that would generate 90 weekly student contact hours.



SENIOR ADMINISTRATION



KELLY FOWLERVice President of Instruction



MIKE McCANDLESS Vice President of Student Services



JOE ALLISONVice President of District
Administrative Services



KELLY UNDERWOODAssociate Vice
President of Human
Resources



JILL CUNNINGHAM Executive Director, Merced College Foundation, Director, Institutional Advancement and Public Information Officer



ARLIS BORTNERChief Technology Officer



INSTRUCTIONAL ADMINISTRATION

BABA ADAM

Dean, Office of Institutional Effectiveness

JOHN ALBANO

Dean of Fine and Performing Arts, Humanities & Social Sciences

ROBERT ANDERSON

Dean of Allied Health, Child Development, Kinesiology, Public Safety

NANCY GOLZ

Dean of Learning Resources Center

DOUGLAS KAIN

Dean of Math, Science and Engineering

BRENDA LATHAM

Dean of Los Banos Campus

VINCE PIRO

Dean of English, Basic Skills, Noncredit

TONI PIRTLE

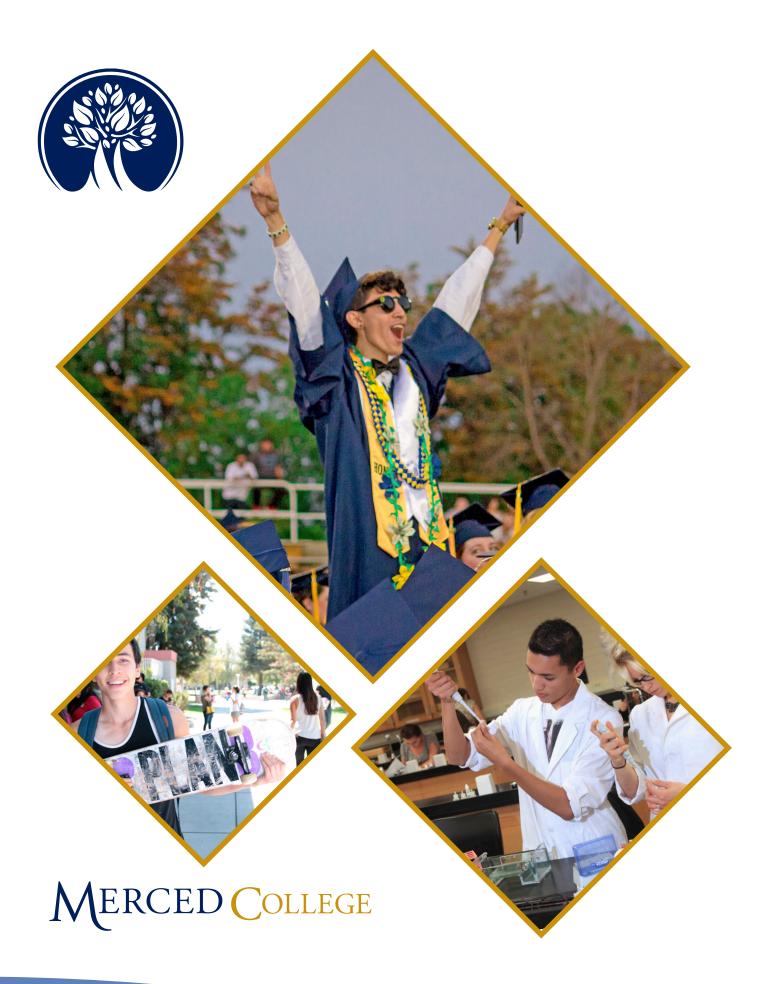
Dean of Agriculture, Business, Industrial Technology, Career Tech Ed



STUDENT SERVICES ADMINISTRATION

ANNE DICARLODean of Student Services

LONITA CORDOVADean of Student Equity and Success





MERCED COMMUNITY COLLEGE DISTRICT



EDUCATIONAL MASTER PLAN 2018-2023

MERCED COMMUNITY COLLEGE DISTRICT